



### Scope of Accreditation for Testing

As per ISO/IEC 17025

**CAB Name:** International Testing and Compliance (OPC) Private Limited

Page No. 1 of 267

**Address:** Village Budhena, Sector-86, Near Shiv Mandir, Faridabad - 121002 Haryana.

**Certificate No.:** T-0010

**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
Discipline: Electrical: Group: Safety Testing of Domestic Electrical Appliance					
1.	Safety of Household and Similar Electrical Appliance	Classification	Qualitative	Cl. 6 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
2.	Safety of Household and Similar Electrical Appliance	Marking and Instruction	Qualitative: 0.1 to 3600 Sec	Cl. 7 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
3.	Safety of Household and Similar Electrical Appliance	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
4.	Safety of Household and Similar Electrical Appliance	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
5.	Safety of Household and Similar Electrical Appliance	Heating	0.1 to 300 °C	Cl. 11 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
6.	Safety of Household and Similar Electrical Appliance	Heating	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
7.	Safety of Household and Similar Electrical Appliance	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IS 302-1/IEC 60335-1	Permanent
8.	Safety of Household and Similar Electrical Appliance	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
9.	Safety of Household and Similar Electrical Appliance	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
10.	Safety of Household and Similar Electrical Appliance	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
11.	Safety of Household and Similar Electrical Appliance	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent



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**Reg Office:** 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



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As per ISO/IEC 17025

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**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
12.	Safety of Household and Similar Electrical Appliance	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
13.	Safety of Household and Similar Electrical Appliance	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
14.	Safety of Household and Similar Electrical Appliance	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
15.	Safety of Household and Similar Electrical Appliance	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
16.	Safety of Household and Similar Electrical Appliance	Endurance	Qualitative	Cl. 18 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
17.	Safety of Household and Similar Electrical Appliance	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
18.	Safety of Household and Similar Electrical Appliance	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
19.	Safety of Household and Similar Electrical Appliance	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
20.	Safety of Household and Similar Electrical Appliance	Construction	<b>Qualitative</b>	Cl. 22 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
21.	Safety of Household and Similar Electrical Appliance	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
22.	Safety of Household and Similar Electrical Appliance	Components	Qualitative	Cl. 24 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent



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**Certificate No.:** T-0010

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**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
23.	Safety of Household and Similar Electrical Appliance	Supply connection and external flexible cords	Qualitative	Cl. 25 of IS 302-1, A1 to A4 /IS 302-1/IEC 60335-1	Permanent
24.	Safety of Household and Similar Electrical Appliance	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-1, A1 to A4 /IS 302-1/IEC 60335-1	Permanent
25.	Safety of Household and Similar Electrical Appliance	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-1, A1 to A4 /IS 302-1/IEC 60335-1	Permanent
26.	Safety of Household and Similar Electrical Appliance	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-1, A1 to A4 /IS 302-1/IEC 60335-1	Permanent
27.	Safety of Household and Similar Electrical Appliance	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-1, A1 to A4 /IS 302-1/IEC 60335-1	Permanent
28.	Safety of Household and Similar Electrical Appliance	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-1, A1 to A4 /IS 302-1/IEC 60335-1	Permanent
29.	Safety of Household and Similar Electrical Appliance	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-1, A1 to A4 /IS 302-1/IEC 60335-1	Permanent
30.	Safety of Household and Similar Electrical Appliance	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-1, A1 to A4 /IS 302-1/IEC 60335-1	Permanent
31.	Safety of Household and Similar Electrical Appliance	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-1, A1 to A4 /IS 302-1/IEC 60335-1	Permanent
32.	Safety of Household and Similar Electrical Appliance	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-1, A1 to A4 /IS 302-1/IEC 60335-1	Permanent
33.	Safety of Household and Similar Electrical Appliance	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-1, A1 to A4 /IS 302-1/IEC 60335-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
34.	Safety of Electric Iron	Classification	Qualitative	Cl. 6 of IS 302-2-3/ IEC 60335-2-3	Permanent
35.	Safety of Electric Iron	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-3/ IEC 60335-2-3	Permanent
36.	Safety of Electric Iron	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-3/ IEC 60335-2-3	Permanent
37.	Safety of Electric Iron	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-3/ IEC 60335-2-3	Permanent
38.	Safety of Electric Iron	Heating	0.1 to 300 °C, 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-2-3/ IEC 60335-2-3	Permanent
39.	Safety of Electric Iron	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-3/ IEC 60335-2-3	Permanent
40.	Safety of Electric Iron	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-3/ IEC 60335-2-3	Permanent
41.	Safety of Electric Iron	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-3/ IEC 60335-2-3	Permanent
42.	Safety of Electric Iron	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-3/ IEC 60335-2-3	Permanent
43.	Safety of Electric Iron	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-3/ IEC 60335-2-3	Permanent
44.	Safety of Electric Iron	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-3/ IEC 60335-2-3	Permanent
45.	Safety of Electric Iron	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-2-3/ IEC 60335-2-3	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
46.	Safety of Electric Iron	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-3/ IEC 60335-2-3	Permanent
47.	Safety of Electric Iron	Abnormal Operation	Qualitative	Cl. 19 of IS 302-2-3/ IEC 60335-2-3	Permanent
48.	Safety of Electric Iron	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-3/ IEC 60335-2-3	Permanent
49.	Safety of Electric Iron	Stability and Mechanical Hazards	Qualitative: 0 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-3/ IEC 60335-2-3	Permanent
50.	Safety of Electric Iron	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-3/ IEC 60335-2-3	Permanent
51.	Safety of Electric Iron	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-3/ IEC 60335-2-3	Permanent
52.	Safety of Electric Iron	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-3/ IEC 60335-2-3	Permanent
53.	Safety of Electric Iron	Components	Qualitative	Cl. 24 of IS 302-2-3/ IEC 60335-2-3	Permanent
54.	Safety of Electric Iron	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-3/ IEC 60335-2-3	Permanent
55.	Safety of Electric Iron	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-3/ IEC 60335-2-3	Permanent



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### Scope of Accreditation for Testing

As per ISO/IEC 17025

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
56.	Safety of Electric Iron	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-3/ IEC 60335-2-3	Permanent
57.	Safety of Electric Iron	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-3/ IEC 60335-2-3	Permanent
58.	Safety of Electric Iron	Clearances, creepage distance and solid insulation	Qualitative:0.01 to 10kV	Cl. 29 of IS 302-2-3/ IEC 60335-2-3	Permanent
59.	Safety of Electric Iron	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-3/ IEC 60335-2-3	Permanent
60.	Safety of Electric Iron	Resistance Heat and Fire	Qualitative: Amb to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-3/ IEC 60335-2-3	Permanent
61.	Safety of Electric Iron	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-3/ IEC 60335-2-3	Permanent
62.	Safety of Electric Iron	Resistance to rusting	Qualitative: Amb to 95%, Amb to 60°C	Cl. 31 of IS 302-2-3/ IEC 60335-2-3	Permanent
63.	Safety of Electric Iron	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-3/ IEC 60335-2-3	Permanent
64.	Electric Iron	Rating	Qualitative	Cl. 6 of IS 366:1991, A1+A2+A3+A4+A5+A6	Permanent
65.	Electric Iron	Classification	Qualitative	Cl. 7 of IS 366, A1+A2+A3+A4+A5+A6	Permanent



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**Address:** Village Budhena, Sector-86, Near Shiv Mandir, Faridabad - 121002 Haryana.

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
66.	Electric Iron	Marking	Qualitative: 1 to 3600 Sec	Cl. 8 of IS 366, A1+A2+A3+A4+A5+A6	Permanent
67.	Electric Iron	Safety Requirements	Qualitative	Cl. 9 of IS 366, A1+A2+A3+A4+A5+A6	Permanent
68.	Electric Iron	Measurement of Heating-up Time	0.1 to 300 °C	Cl. 10 of IS 366, A1+A2+A3+A4+A5+A6	Permanent
69.	Electric Iron	Measurement of Sole Plate Temperature	Qualitative: 0.1 to 300 °C	Cl. 11 of IS 366, A1+A2+A3+A4+A5+A6	Permanent
70.	Electric Iron	Measurement of Temperature Distribution	Qualitative: 0.1 to 300 °C	Cl. 12 of IS 366, A1+A2+A3+A4+A5+A6	Permanent
71.	Electric Iron	Measurement of Initial Over Swing Temperature and Heating-Up Excess Temperature	Qualitative: 0.1 to 300 °C	Cl. 13 of IS 366, A1+A2+A3+A4+A5+A6	Permanent
72.	Electric Iron	Measurement of Cyclic Fluctuation of Temperature	Qualitative: 0.1 to 300 °C	Cl. 14 of IS 366, A1+A2+A3+A4+A5+A6	Permanent
73.	Electric Iron	Measurement of Temperature Drop under Load	Qualitative: 0.1 to 300 °C, 0.1 to 6000W	Cl. 15 of IS 366, A1+A2+A3+A4+A5+A6	Permanent
74.	Electric Iron	Measurement of Thermostatic Stability	Qualitative: 0.1 to 300 °C	Cl. 16 of IS 366, A1+A2+A3+A4+A5+A6	Permanent
75.	Electric Iron	Finish	Qualitative	Cl. 17 of IS 366, A1+A2+A3+A4+A5+A6	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
76.	Safety of cooking ranges, hobs, ovens and similar appliances	Classification	Qualitative	Cl. 6 of IS 302-2-6/ IEC 60335-2-6	Permanent
77.	Safety of cooking ranges, hobs, ovens and similar appliances	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-6/ IEC 60335-2-6	Permanent
78.	Safety of cooking ranges, hobs, ovens and similar appliances	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-6/ IEC 60335-2-6	Permanent
79.	Safety of cooking ranges, hobs, ovens and similar appliances	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-6/ IEC 60335-2-6	Permanent
80.	Safety of cooking ranges, hobs, ovens and similar appliances	Heating	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-2-6/ IEC 60335-2-6	Permanent
81.	Safety of cooking ranges, hobs, ovens and similar appliances	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-6/ IEC 60335-2-6	Permanent
82.	Safety of cooking ranges, hobs, ovens and similar appliances	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-6/ IEC 60335-2-6	Permanent
83.	Safety of cooking ranges, hobs, ovens and similar appliances	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-6/ IEC 60335-2-6	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
84.	Safety of cooking ranges, hobs, ovens and similar appliances	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-6/ IEC 60335-2-6	Permanent
85.	Safety of cooking ranges, hobs, ovens and similar appliances	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-6/ IEC 60335-2-6	Permanent
86.	Safety of cooking ranges, hobs, ovens and similar appliances	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-6/ IEC 60335-2-6	Permanent
87.	Safety of cooking ranges, hobs, ovens and similar appliances	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-6/ IEC 60335-2-6	Permanent
88.	Safety of cooking ranges, hobs, ovens and similar appliances	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IS 302-2-6/ IEC 60335-2-6	Permanent
89.	Safety of cooking ranges, hobs, ovens and similar appliances	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-6/ IEC 60335-2-6	Permanent
90.	Safety of cooking ranges, hobs, ovens and similar appliances	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-6/ IEC 60335-2-6	Permanent
91.	Safety of cooking ranges, hobs, ovens and similar appliances	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-6/ IEC 60335-2-6	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
92.	Safety of cooking ranges, hobs, ovens and similar appliances	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-6/ IEC 60335-2-6	Permanent
93.	Safety of cooking ranges, hobs, ovens and similar appliances	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-6/ IEC 60335-2-6	Permanent
94.	Safety of cooking ranges, hobs, ovens and similar appliances	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-6/ IEC 60335-2-6	Permanent
95.	Safety of cooking ranges, hobs, ovens and similar appliances	Components	Qualitative	Cl. 24 of IS 302-2-6/ IEC 60335-2-6	Permanent
96.	Safety of cooking ranges, hobs, ovens and similar appliances	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-6/ IEC 60335-2-6	Permanent
97.	Safety of cooking ranges, hobs, ovens and similar appliances	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-6/ IEC 60335-2-6	Permanent
98.	Safety of cooking ranges, hobs, ovens and similar appliances	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-6/ IEC 60335-2-6	Permanent
99.	Safety of cooking ranges, hobs, ovens and similar appliances	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-6/ IEC 60335-2-6	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
100.	Safety of cooking ranges, hobs, ovens and similar appliances	Clearances, creepage distance and solid insulation	Qualitative:0.01 to 10kV	Cl. 29 of IS 302-2-6/ IEC 60335-2-6	Permanent
101.	Safety of cooking ranges, hobs, ovens and similar appliances	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-6/ IEC 60335-2-6	Permanent
102.	Safety of cooking ranges, hobs, ovens and similar appliances	Resistance Heat and Fire	Qualitative: Amb to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-6/ IEC 60335-2-6	Permanent
103.	Safety of cooking ranges, hobs, ovens and similar appliances	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-6/ IEC 60335-2-6	Permanent
104.	Safety of cooking ranges, hobs, ovens and similar appliances	Resistance to rusting	Qualitative: Amb to 95%, Amb to 60°C	Cl. 31 of IS 302-2-6/ IEC 60335-2-6	Permanent
105.	Safety of cooking ranges, hobs, ovens and similar appliances	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-6/ IEC 60335-2-6	Permanent
106.	Safety of Electric Shavers, Hair Clipper	Classification	Qualitative	Cl. 6 of IS 302-2-8/ IEC 60335-2-8	Permanent
107.	Safety of Electric Shavers, Hair Clipper	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-8/ IEC 60335-2-8	Permanent
108.	Safety of Electric Shavers, Hair Clipper	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-8/ IEC 60335-2-8	Permanent



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As per ISO/IEC 17025

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**Address:** Village Budhena, Sector-86, Near Shiv Mandir, Faridabad - 121002 Haryana.

**Certificate No.:** T-0010

**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
109.	Safety of Electric Shavers, Hair Clipper	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-8/ IEC 60335-2-8	Permanent
110.	Safety of Electric Shavers, Hair Clipper	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-8/ IEC 60335-2-8	Permanent
111.	Safety of Electric Shavers, Hair Clipper	Heating	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-2-8/ IEC 60335-2-8	Permanent
112.	Safety of Electric Shavers, Hair Clipper	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IS 302-2-8/ IEC 60335-2-8	Permanent
113.	Safety of Electric Shavers, Hair Clipper	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-8/ IEC 60335-2-8	Permanent
114.	Safety of Electric Shavers, Hair Clipper	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-8/ IEC 60335-2-8	Permanent
115.	Safety of Electric Shavers, Hair Clipper	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-8/ IEC 60335-2-8	Permanent
116.	Safety of Electric Shavers, Hair Clipper	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-8/ IEC 60335-2-8	Permanent
117.	Safety of Electric Shavers, Hair Clipper	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-8/ IEC 60335-2-8	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
118.	Safety of Electric Shavers, Hair Clipper	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-8/ IEC 60335-2-8	Permanent
119.	Safety of Electric Shavers, Hair Clipper	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-2-8/ IEC 60335-2-8	Permanent
120.	Safety of Electric Shavers, Hair Clipper	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-8/ IEC 60335-2-8	Permanent
121.	Safety of Electric Shavers, Hair Clipper	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-8/ IEC 60335-2-8	Permanent
122.	Safety of Electric Shavers, Hair Clipper	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-8/ IEC 60335-2-8	Permanent
123.	Safety of Electric Shavers, Hair Clipper	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-8/ IEC 60335-2-8	Permanent
124.	Safety of Electric Shavers, Hair Clipper	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999 $\mu\Omega$ , 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-8/ IEC 60335-2-8	Permanent
125.	Safety of Electric Shavers, Hair Clipper	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-8/ IEC 60335-2-8	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
126.	Safety of Electric Shavers, Hair Clipper	Components	Qualitative	Cl. 24 of IS 302-2-8/ IEC 60335-2-8	Permanent
127.	Safety of Electric Shavers, Hair Clipper	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-8/ IEC 60335-2-8	Permanent
128.	Safety of Electric Shavers, Hair Clipper	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-8/ IEC 60335-2-8	Permanent
129.	Safety of Electric Shavers, Hair Clipper	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-8/ IEC 60335-2-8	Permanent
130.	Safety of Electric Shavers, Hair Clipper	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-8/ IEC 60335-2-8	Permanent
131.	Safety of Electric Shavers, Hair Clipper	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-8/ IEC 60335-2-8	Permanent
132.	Safety of Electric Shavers, Hair Clipper	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-8/ IEC 60335-2-8	Permanent
133.	Safety of Electric Shavers, Hair Clipper	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-8/ IEC 60335-2-8	Permanent
134.	Safety of Electric Shavers, Hair Clipper	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-8/ IEC 60335-2-8	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
135.	Safety of Electric Shavers, Hair Clipper	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-8/ IEC 60335-2-8	Permanent
136.	Safety of Electric Shavers, Hair Clipper	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-8/ IEC 60335-2-8	Permanent
137.	Safety of Toasters, Grills, Roasters and Similar appliances	Classification	Qualitative	Cl. 6 of IS 302-2-9/ IEC 60335-2-9	Permanent
138.	Safety of Toasters, Grills, Roasters and Similar appliances	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-9/ IEC 60335-2-9	Permanent
139.	Safety of Toasters, Grills, Roasters and Similar appliances	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-9/ IEC 60335-2-9	Permanent
140.	Safety of Toasters, Grills, Roasters and Similar appliances	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-9/ IEC 60335-2-9	Permanent
141.	Safety of Toasters, Grills, Roasters and Similar appliances	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-9/ IEC 60335-2-9	Permanent
142.	Safety of Toasters, Grills, Roasters and Similar appliances	Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-9/ IEC 60335-2-9	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
143.	Safety of Toasters, Grills, Roasters and Similar appliances	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-9/ IEC 60335-2-9	Permanent
144.	Safety of Toasters, Grills, Roasters and Similar appliances	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-9/ IEC 60335-2-9	Permanent
145.	Safety of Toasters, Grills, Roasters and Similar appliances	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-9/ IEC 60335-2-9	Permanent
146.	Safety of Toasters, Grills, Roasters and Similar appliances	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-9/ IEC 60335-2-9	Permanent
147.	Safety of Toasters, Grills, Roasters and Similar appliances	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-9/ IEC 60335-2-9	Permanent
148.	Safety of Toasters, Grills, Roasters and Similar appliances	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-9/ IEC 60335-2-9	Permanent
149.	Safety of Toasters, Grills, Roasters and Similar appliances	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IS 302-2-9/ IEC 60335-2-9	Permanent
150.	Safety of Toasters, Grills, Roasters and Similar appliances	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-9/ IEC 60335-2-9	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
151.	Safety of Toasters, Grills, Roasters and Similar appliances	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-9/ IEC 60335-2-9	Permanent
152.	Safety of Toasters, Grills, Roasters and Similar appliances	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-9/ IEC 60335-2-9	Permanent
153.	Safety of Toasters, Grills, Roasters and Similar appliances	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-9/ IEC 60335-2-9	Permanent
154.	Safety of Toasters, Grills, Roasters and Similar appliances	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-9/ IEC 60335-2-9	Permanent
155.	Safety of Toasters, Grills, Roasters and Similar appliances	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-9/ IEC 60335-2-9	Permanent
156.	Safety of Toasters, Grills, Roasters and Similar appliances	Components	Qualitative	Cl. 24 of IS 302-2-9/ IEC 60335-2-9	Permanent
157.	Safety of Toasters, Grills, Roasters and Similar appliances	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-9/ IEC 60335-2-9	Permanent
158.	Safety of Toasters, Grills, Roasters and Similar appliances	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-9/ IEC 60335-2-9	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
159.	Safety of Toasters, Grills, Roasters and Similar appliances	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-9/ IEC 60335-2-9	Permanent
160.	Safety of Toasters, Grills, Roasters and Similar appliances	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-9/ IEC 60335-2-9	Permanent
161.	Safety of Toasters, Grills, Roasters and Similar appliances	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-9/ IEC 60335-2-9	Permanent
162.	Safety of Toasters, Grills, Roasters and Similar appliances	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-9/ IEC 60335-2-9	Permanent
163.	Safety of Toasters, Grills, Roasters and Similar appliances	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-9/ IEC 60335-2-9	Permanent
164.	Safety of Toasters, Grills, Roasters and Similar appliances	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-9/ IEC 60335-2-9	Permanent
165.	Safety of Toasters, Grills, Roasters and Similar appliances	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-9/ IEC 60335-2-9	Permanent
166.	Safety of Toasters, Grills, Roasters and Similar appliances	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-9/ IEC 60335-2-9	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
167.	Safety of Frying Pans, Fryers	Classification	Qualitative	Cl. 6 of IS 302-2-13/ IEC 60335-2-13	Permanent
168.	Safety of Frying Pans, Fryers	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-13/ IEC 60335-2-13	Permanent
169.	Safety of Frying Pans, Fryers	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-13/ IEC 60335-2-13	Permanent
170.	Safety of Frying Pans, Fryers	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-13/ IEC 60335-2-13	Permanent
171.	Safety of Frying Pans, Fryers	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-13/ IEC 60335-2-13	Permanent
172.	Safety of Frying Pans, Fryers	Heating	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-2-13/ IEC 60335-2-13	Permanent
173.	Safety of Frying Pans, Fryers	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-13/ IEC 60335-2-13	Permanent
174.	Safety of Frying Pans, Fryers	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-13 / IEC 60335-2-13	Permanent
175.	Safety of Frying Pans, Fryers	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-13 / IEC 60335-2-13	Permanent
176.	Safety of Frying Pans, Fryers	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-13 / IEC 60335-2-13	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
177.	Safety of Frying Pans, Fryers	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-13 / IEC 60335-2-13	Permanent
178.	Safety of Frying Pans, Fryers	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-13 / IEC 60335-2-13	Permanent
179.	Safety of Frying Pans, Fryers	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-2-13 / IEC 60335-2-13	Permanent
180.	Safety of Frying Pans, Fryers	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-13 / IEC 60335-2-13	Permanent
181.	Safety of Frying Pans, Fryers	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-13 / IEC 60335-2-13	Permanent
182.	Safety of Frying Pans, Fryers	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-13 / IEC 60335-2-13	Permanent
183.	Safety of Frying Pans, Fryers	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl.21 of IS 302-2-13 / IEC 60335-2-13	Permanent
184.	Safety of Frying Pans, Fryers	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999 $\mu\Omega$ , 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-13 / IEC 60335-2-13	Permanent
185.	Safety of Frying Pans, Fryers	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-13 / IEC 60335-2-13	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
186.	Safety of Frying Pans, Fryers	Components	Qualitative	Cl. 24 of IS 302-2-13 / IEC 60335-2-13	Permanent
187.	Safety of Frying Pans, Fryers	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-13 / IEC 60335-2-13	Permanent
188.	Safety of Frying Pans, Fryers	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-13 / IEC 60335-2-13	Permanent
189.	Safety of Frying Pans, Fryers	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-13 / IEC 60335-2-13	Permanent
190.	Safety of Frying Pans, Fryers	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-13 / IEC 60335-2-13	Permanent
191.	Safety of Frying Pans, Fryers	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-13 / IEC 60335-2-13	Permanent
192.	Safety of Frying Pans, Fryers	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-13 / IEC 60335-2-13	Permanent
193.	Safety of Frying Pans, Fryers	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-13 / IEC 60335-2-13	Permanent
194.	Safety of Frying Pans, Fryers	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-13 / IEC 60335-2-13	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
195.	Safety of Frying Pans, Fryers	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-13 / IEC 60335-2-13	Permanent
196.	Safety of Frying Pans, Fryers	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-13 / IEC 60335-2-13	Permanent
197.	Electric Kitchen Machines	Classification	Qualitative	Cl. 6 of IS 302-2-14 / IEC 60335-2-14	Permanent
198.	Electric Kitchen Machines	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-14 / IEC 60335-2-14	Permanent
199.	Electric Kitchen Machines	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-14 / IEC 60335-2-14	Permanent
200.	Electric Kitchen Machines	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-14 / IEC 60335-2-14	Permanent
201.	Electric Kitchen Machines	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-14 / IEC 60335-2-14	Permanent
202.	Electric Kitchen Machines	Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-14 / IEC 60335-2-14	Permanent
203.	Electric Kitchen Machines	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-14 / IEC 60335-2-14	Permanent



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**Address:** Village Budhena, Sector-86, Near Shiv Mandir, Faridabad - 121002 Haryana.

**Certificate No.:** T-0010

**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
204.	Electric Kitchen Machines	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-14 / IEC 60335-2-14	Permanent
205.	Electric Kitchen Machines	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-14 / IEC 60335-2-14	Permanent
206.	Electric Kitchen Machines	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-14 / IEC 60335-2-14	Permanent
207.	Electric Kitchen Machines	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-14 / IEC 60335-2-14	Permanent
208.	Electric Kitchen Machines	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-14 / IEC 60335-2-14	Permanent
209.	Electric Kitchen Machines	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IS 302-2-14 / IEC 60335-2-14	Permanent
210.	Electric Kitchen Machines	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-14 / IEC 60335-2-14	Permanent
211.	Electric Kitchen Machines	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-14 / IEC 60335-2-14	Permanent
212.	Electric Kitchen Machines	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-14 / IEC 60335-2-14	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
213.	Electric Kitchen Machines	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-14 / IEC 60335-2-14	Permanent
214.	Electric Kitchen Machines	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-14 / IEC 60335-2-14	Permanent
215.	Electric Kitchen Machines	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-14 / IEC 60335-2-14	Permanent
216.	Electric Kitchen Machines	Components	Qualitative	Cl. 24 of IS 302-2-14 / IEC 60335-2-14	Permanent
217.	Electric Kitchen Machines	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-14 / IEC 60335-2-14	Permanent
218.	Electric Kitchen Machines	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-14 / IEC 60335-2-14	Permanent
219.	Electric Kitchen Machines	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-14 / IEC 60335-2-14	Permanent
220.	Electric Kitchen Machines	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-14 / IEC 60335-2-14	Permanent
221.	Electric Kitchen Machines	Screws and Connection	0.01 to 200mm	Cl. 28 of IS 302-2-14 / IEC 60335-2-14	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
222.	Electric Kitchen Machines	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-14 / IEC 60335-2-14	Permanent
223.	Electric Kitchen Machines	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-14 / IEC 60335-2-14	Permanent
224.	Electric Kitchen Machines	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-14 / IEC 60335-2-14	Permanent
225.	Electric Kitchen Machines	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-14 / IEC 60335-2-14	Permanent
226.	Electric Kitchen Machines	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-14 / IEC 60335-2-14	Permanent
227.	Electric Kitchen Machines	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-14 / IEC 60335-2-14	Permanent
228.	Heating Liquids	Classification	Qualitative	Cl. 6 of IS 302-2-15 / IEC 60335-2-15	Permanent
229.	Heating Liquids	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-15 / IEC 60335-2-15	Permanent
230.	Heating Liquids	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-15 / IEC 60335-2-15	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
231.	Heating Liquids	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-15 / IEC 60335-2-15	Permanent
232.	Heating Liquids	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-15 / IEC 60335-2-15	Permanent
233.	Heating Liquids	Heating	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-2-15 / IEC 60335-2-15	Permanent
234.	Heating Liquids	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IEC 60335-2-15	Permanent
235.	Heating Liquids	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-15 / IEC 60335-2-15	Permanent
236.	Heating Liquids	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-15 / IEC 60335-2-15	Permanent
237.	Heating Liquids	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-15 / IEC 60335-2-15	Permanent
238.	Heating Liquids	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-15 / IEC 60335-2-15	Permanent
239.	Heating Liquids	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-15 / IEC 60335-2-15	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
240.	Heating Liquids	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-15 / IEC 60335-2-15	Permanent
241.	Heating Liquids	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-2-15 / IEC 60335-2-15	Permanent
242.	Heating Liquids	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-15 / IEC 60335-2-15	Permanent
243.	Heating Liquids	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-15 / IEC 60335-2-15	Permanent
244.	Heating Liquids	Stability and Mechanical Hazards	Qualitative: 0 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-15 / IEC 60335-2-15	Permanent
245.	Heating Liquids	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-15 / IEC 60335-2-15	Permanent
246.	Heating Liquids	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999 $\mu\Omega$ , 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-15 / IEC 60335-2-15	Permanent
247.	Heating Liquids	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-15 / IEC 60335-2-15	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
248.	Heating Liquids	Components	Qualitative	Cl. 24 of IS 302-2-15 / IEC 60335-2-15	Permanent
249.	Heating Liquids	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-15 / IEC 60335-2-15	Permanent
250.	Heating Liquids	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-15 / IEC 60335-2-15	Permanent
251.	Heating Liquids	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-15 / IEC 60335-2-15	Permanent
252.	Heating Liquids	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-15 / IEC 60335-2-15	Permanent
253.	Heating Liquids	Clearances, creepage distance and solid insulation	0.01 to 200mm, 0.01 to 10kV,	Cl. 29 of IS 302-2-15 / IEC 60335-2-15	Permanent
254.	Heating Liquids	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-15 / IEC 60335-2-15	Permanent
255.	Heating Liquids	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-15 / IEC 60335-2-15	Permanent
256.	Heating Liquids	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-15 / IEC 60335-2-15	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
257.	Heating Liquids	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-15 / IEC 60335-2-15	Permanent
258.	Storage Water Heaters	Classification	Qualitative	Cl. 6 of IS 302-2-21 / IEC 60335-2-21	Permanent
259.	Storage Water Heaters	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-21 / IEC 60335-2-21	Permanent
260.	Storage Water Heaters	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-21 / IEC 60335-2-21	Permanent
261.	Storage Water Heaters	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-21 / IEC 60335-2-21	Permanent
262.	Storage Water Heaters	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-21 / IEC 60335-2-21	Permanent
263.	Storage Water Heaters	Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-21 / IEC 60335-2-21	Permanent
264.	Storage Water Heaters	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IEC 60335-2-21	Permanent
265.	Storage Water Heaters	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-21 / IEC 60335-2-21	Permanent
266.	Storage Water Heaters	Leakage Current and Electric Strength at	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-21 / IEC 60335-2-21	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		Operating Temperature			
267.	Storage Water Heaters	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-21 / IEC 60335-2-21	Permanent
268.	Storage Water Heaters	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-21 / IEC 60335-2-21	Permanent
269.	Storage Water Heaters	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-21 / IEC 60335-2-21	Permanent
270.	Storage Water Heaters	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-21 / IEC 60335-2-21	Permanent
271.	Storage Water Heaters	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IS 302-2-21 / IEC 60335-2-21	Permanent
272.	Storage Water Heaters	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-21 / IEC 60335-2-21	Permanent
273.	Storage Water Heaters	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-21 / IEC 60335-2-21	Permanent
274.	Storage Water Heaters	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-21 / IEC 60335-2-21	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
275.	Storage Water Heaters	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-21 / IEC 60335-2-21	Permanent
276.	Storage Water Heaters	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-21 / IEC 60335-2-21	Permanent
277.	Storage Water Heaters	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-21 / IEC 60335-2-21	Permanent
278.	Storage Water Heaters	Components	Qualitative	Cl. 24 of IS 302-2-21 / IEC 60335-2-21	Permanent
279.	Storage Water Heaters	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-21 / IEC 60335-2-21	Permanent
280.	Storage Water Heaters	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-21 / IEC 60335-2-21	Permanent
281.	Storage Water Heaters	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-21 / IEC 60335-2-21	Permanent
282.	Storage Water Heaters	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-21 / IEC 60335-2-21	Permanent
283.	Storage Water Heaters	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-21 / IEC 60335-2-21	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
284.	Storage Water Heaters	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-21 / IEC 60335-2-21	Permanent
285.	Storage Water Heaters	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-21 / IEC 60335-2-21	Permanent
286.	Storage Water Heaters	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-21 / IEC 60335-2-21	Permanent
287.	Storage Water Heaters	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-21 / IEC 60335-2-21	Permanent
288.	Storage Water Heaters	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-21 / IEC 60335-2-21	Permanent
289.	Electric Water Heater	Classification	Qualitative	Cl. 6 of IS 2082	Permanent
290.	Electric Water Heater	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 2082	Permanent
291.	Electric Water Heater	Safety Requirements	Qualitative	Cl. 8 of IS 2082	Permanent
292.	Electric Water Heater	General Conditions for Measurements	Qualitative	Cl. 9 of IS 2082	Permanent
293.	Electric Water Heater	Mounting of the Water Heater	Qualitative	Cl. 10 of IS 2082	Permanent
294.	Electric Water Heater	Measurements of Stored Water Temperature	Qualitative: 0.1 to 300°C	Cl. 11 of IS 2082	Permanent
295.	Electric Water Heater	Thermostat Setting	Qualitative	Cl. 12 of IS 2082	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
296.	Electric Water Heater	Measurements of Energy Consumption	Qualitative: 1 to 300V, 1 to 5000W, 1to 20A, 1 to 999hr	Cl. 13 of IS 2082	Permanent
297.	Electric Water Heater	Verification of the Rated Capacity	Qualitative	Cl. 14 of IS 2082	Permanent
298.	Electric Water Heater	Standing loss per 24 hours	Qualitative: 1 to 300V, 1 to 5000W, 1 to 20A, 1 to 999hr	Cl. 15 of IS 2082	Permanent
299.	Electric Water Heater	Standing loss per 24 hours	Quantitative: 1 to 999kwh	Cl. 15 of IS 2082	Permanent
300.	Electric Water Heater	Hot Water Output	Qualitative: 1 to 300V, 1 to 5000W, 1 to 20A, 1 to 999hr	Cl. 16 of IS 2082	Permanent
301.	Electric Water Heater	Hot Water Output	Quantitative: 0.1 to 300°C	Cl. 16 of IS 2082	Permanent
302.	Electric Water Heater	Reheating time	Qualitative: 1 to 300V, 1 to 5000W, 1 to 20A, 1 to 999hr	Cl. 17 of IS 2082	Permanent
303.	Electric Water Heater	Reheating time	Quantitative: 1 to 3600 Sec	Cl. 17 of IS 2082	Permanent
304.	Electric Water Heater	Mixing Factor	Qualitative: 1 to 300V, 1 to 5000W, 1 to 20A, 1 to 999hr	Cl. 18 of IS 2082	Permanent
305.	Electric Water Heater	Mixing Factor	Quantitative: 0.1 to 300°C	Cl. 18 of IS 2082	Permanent
306.	Electric Water Heater	Deviation from dial calibration	Quantitative: 0.1 to 300°C	Cl. 19 of IS 2082	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
307.	Electric Water Heater	Cyclic Temperature Variation (Differential)	Qualitative: 1to 300V, 1 to 5000W, 1 to 20A, 1 to 999hr	Cl. 20 of IS 2082	Permanent
308.	Skin and Hair Care	Classification	Qualitative	Cl. 6 of IS 302-2-23 / IEC 60335-2-23	Permanent
309.	Skin and Hair Care	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-23 / IEC 60335-2-23	Permanent
310.	Skin and Hair Care	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-23 / IEC 60335-2-23	Permanent
311.	Skin and Hair Care	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-23 / IEC 60335-2-23	Permanent
312.	Skin and Hair Care	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-23 / IEC 60335-2-23	Permanent
313.	Skin and Hair Care	Heating	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-2-23 / IEC 60335-2-23	Permanent
314.	Skin and Hair Care	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-23 / IEC 60335-2-23	Permanent
315.	Skin and Hair Care	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-23 / IEC 60335-2-23	Permanent



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**Certificate No.:** T-0010

**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
316.	Skin and Hair Care	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-23 / IEC 60335-2-23	Permanent
317.	Skin and Hair Care	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60 $^{\circ}$ C	Cl. 15 of IS 302-2-23 / IEC 60335-2-23	Permanent
318.	Skin and Hair Care	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-23 / IEC 60335-2-23	Permanent
319.	Skin and Hair Care	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-23 / IEC 60335-2-23	Permanent
320.	Skin and Hair Care	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IS 302-2-23 / IEC 60335-2-23	Permanent
321.	Skin and Hair Care	Overload Protection of Transformers and associated circuit	0.1 to 300 $^{\circ}$ C	Cl. 17 of IS 302-2-23 / IEC 60335-2-23	Permanent
322.	Skin and Hair Care	Abnormal Operation	0.1 to 300 $^{\circ}$ C	Cl. 19 of IS 302-2-23 / IEC 60335-2-23	Permanent
323.	Skin and Hair Care	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-23 / IEC 60335-2-23	Permanent
324.	Skin and Hair Care	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-23 / IEC 60335-2-23	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
325.	Skin and Hair Care	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-23 / IEC 60335-2-23	Permanent
326.	Skin and Hair Care	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-23 / IEC 60335-2-23	Permanent
327.	Skin and Hair Care	Components	Qualitative	Cl. 24 of IS 302-2-23 / IEC 60335-2-23	Permanent
328.	Skin and Hair Care	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-23 / IEC 60335-2-23	Permanent
329.	Skin and Hair Care	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-23 / IEC 60335-2-23	Permanent
330.	Skin and Hair Care	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-23 / IEC 60335-2-23	Permanent
331.	Skin and Hair Care	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-23 / IEC 60335-2-23	Permanent
332.	Skin and Hair Care	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-23 / IEC 60335-2-23	Permanent
333.	Skin and Hair Care	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-23 / IEC 60335-2-23	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
334.	Skin and Hair Care	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-23 / IEC 60335-2-23	Permanent
335.	Skin and Hair Care	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-23 / IEC 60335-2-23	Permanent
336.	Skin and Hair Care	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-23 / IEC 60335-2-23	Permanent
337.	Skin and Hair Care	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-23 / IEC 60335-2-23	Permanent
338.	Room Heater	Classification	Qualitative	Cl. 6 of IS 302-2-30 / IEC 60335-2-30	Permanent
339.	Room Heater	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-30 / IEC 60335-2-30	Permanent
340.	Room Heater	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-30 / IEC 60335-2-30	Permanent
341.	Room Heater	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-30 / IEC 60335-2-30	Permanent
342.	Room Heater	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-30 / IEC 60335-2-30	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
343.	Room Heater	Heating	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-2-30 / IEC 60335-2-30	Permanent
344.	Room Heater	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-30 / IEC 60335-2-30	Permanent
345.	Room Heater	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-30 / IEC 60335-2-30	Permanent
346.	Room Heater	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-30 / IEC 60335-2-30	Permanent
347.	Room Heater	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-30 / IEC 60335-2-30	Permanent
348.	Room Heater	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-30 / IEC 60335-2-30	Permanent
349.	Room Heater	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-30 / IEC 60335-2-30	Permanent
350.	Room Heater	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-2-30 / IEC 60335-2-30	Permanent
351.	Room Heater	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-30 / IEC 60335-2-30	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
352.	Room Heater	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-30 / IEC 60335-2-30	Permanent
353.	Room Heater	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-30 / IEC 60335-2-30	Permanent
354.	Room Heater	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-30 / IEC 60335-2-30	Permanent
355.	Room Heater	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-30 / IEC 60335-2-30	Permanent
356.	Room Heater	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-30 / IEC 60335-2-30	Permanent
357.	Room Heater	Components	Qualitative	Cl. 24 of IS 302-2-30 / IEC 60335-2-30	Permanent
358.	Room Heater	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-30 / IEC 60335-2-30	Permanent
359.	Room Heater	Terminal for external conductors	0.01 to 200mm	Cl. 26 of IS 302-2-30 / IEC 60335-2-30	Permanent
360.	Room Heater	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-30 / IEC 60335-2-30	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
361.	Room Heater	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-30 / IEC 60335-2-30	Permanent
362.	Room Heater	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-30 / IEC 60335-2-30	Permanent
363.	Room Heater	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-30 / IEC 60335-2-30	Permanent
364.	Room Heater	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-30 / IEC 60335-2-30	Permanent
365.	Room Heater	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-30 / IEC 60335-2-30	Permanent
366.	Room Heater	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-30 / IEC 60335-2-30	Permanent
367.	Room Heater	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-30 / IEC 60335-2-30	Permanent
368.	Range hoods and other cooking fume extractors	Classification	Qualitative	Cl. 6 of IS 302-2-31 / IEC 60335-2-31	Permanent
369.	Range hoods and other cooking fume extractors	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-31 / IEC 60335-2-31	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
370.	Range hoods and other cooking fume extractors	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-31 / IEC 60335-2-31	Permanent
371.	Range hoods and other cooking fume extractors	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-31 / IEC 60335-2-31	Permanent
372.	Range hoods and other cooking fume extractors	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-31 / IEC 60335-2-31	Permanent
373.	Range hoods and other cooking fume extractors	Heating	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-2-31 / IEC 60335-2-31	Permanent
374.	Range hoods and other cooking fume extractors	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IEC 60335-2-31	Permanent
375.	Range hoods and other cooking fume extractors	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-31 / IEC 60335-2-31	Permanent
376.	Range hoods and other cooking fume extractors	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-31 / IEC 60335-2-31	Permanent
377.	Range hoods and other cooking fume extractors	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-31 / IEC 60335-2-31	Permanent
378.	Range hoods and other cooking fume extractors	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-31 / IEC 60335-2-31	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
379.	Range hoods and other cooking fume extractors	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-31 / IEC 60335-2-31	Permanent
380.	Range hoods and other cooking fume extractors	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-31 / IEC 60335-2-31	Permanent
381.	Range hoods and other cooking fume extractors	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-2-31 / IEC 60335-2-31	Permanent
382.	Range hoods and other cooking fume extractors	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-31 / IEC 60335-2-31	Permanent
383.	Range hoods and other cooking fume extractors	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-31 / IEC 60335-2-31	Permanent
384.	Range hoods and other cooking fume extractors	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-31 / IEC 60335-2-31	Permanent
385.	Range hoods and other cooking fume extractors	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-31 / IEC 60335-2-31	Permanent
386.	Range hoods and other cooking fume extractors	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999 $\mu\Omega$ , 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-31 / IEC 60335-2-31	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
387.	Range hoods and other cooking fume extractors	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-31 / IEC 60335-2-31	Permanent
388.	Range hoods and other cooking fume extractors	Components	Qualitative	Cl. 24 of IS 302-2-31 / IEC 60335-2-31	Permanent
389.	Range hoods and other cooking fume extractors	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-31 / IEC 60335-2-31	Permanent
390.	Range hoods and other cooking fume extractors	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-31 / IEC 60335-2-31	Permanent
391.	Range hoods and other cooking fume extractors	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-31 / IEC 60335-2-31	Permanent
392.	Range hoods and other cooking fume extractors	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-31 / IEC 60335-2-31	Permanent
393.	Range hoods and other cooking fume extractors	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-31 / IEC 60335-2-31	Permanent
394.	Range hoods and other cooking fume extractors	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-31 / IEC 60335-2-31	Permanent
395.	Range hoods and other cooking fume extractors	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-31 / IEC 60335-2-31	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
396.	Range hoods and other cooking fume extractors	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-31 / IEC 60335-2-31	Permanent
397.	Range hoods and other cooking fume extractors	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-31 / IEC 60335-2-31	Permanent
398.	Range hoods and other cooking fume extractors	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-31 / IEC 60335-2-31	Permanent
399.	Massage Appliances	Classification	Qualitative	Cl. 6 of IS 302-2-32 / IEC 60335-2-32	Permanent
400.	Massage Appliances	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-32 / IEC 60335-2-32	Permanent
401.	Massage Appliances	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-32 / IEC 60335-2-32	Permanent
402.	Massage Appliances	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-32 / IEC 60335-2-32	Permanent
403.	Massage Appliances	Temperature Rise/Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-32 / IEC 60335-2-32	Permanent
404.	Massage Appliances	Temperature Rise/Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-32 / IEC 60335-2-32	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
405.	Massage Appliances	Operation under overload condition of appliance with heating elements	Qualitative	Cl. 12 of IS 302-2-32	Permanent
406.	Massage Appliances	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IEC 60335-2-32	Permanent
407.	Massage Appliances	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-32 / IEC 60335-2-32	Permanent
408.	Massage Appliances	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-32 / IEC 60335-2-32	Permanent
409.	Massage Appliances	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IEC 60335-2-32	Permanent
410.	Massage Appliances	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-32 / IEC 60335-2-32	Permanent
411.	Massage Appliances	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-32 / IEC 60335-2-32	Permanent
412.	Massage Appliances	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-32 / IEC 60335-2-32	Permanent
413.	Massage Appliances	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IS 302-2-32 / IEC 60335-2-32	Permanent



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**Certificate No.:** T-0010

**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
414.	Massage Appliances	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-32 / IEC 60335-2-32	Permanent
415.	Massage Appliances	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-32 / IEC 60335-2-32	Permanent
416.	Massage Appliances	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-32 / IEC 60335-2-32	Permanent
417.	Massage Appliances	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-32 / IEC 60335-2-32	Permanent
418.	Massage Appliances	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999µΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-32 / IEC 60335-2-32	Permanent
419.	Massage Appliances	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-32 / IEC 60335-2-32	Permanent
420.	Massage Appliances	Components	Qualitative	Cl. 24 of IS 302-2-32 / IEC 60335-2-32	Permanent
421.	Massage Appliances	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-32 / IEC 60335-2-32	Permanent
422.	Massage Appliances	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-32 / IEC 60335-2-32	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
423.	Massage Appliances	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-32 / IEC 60335-2-32	Permanent
424.	Massage Appliances	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-32 / IEC 60335-2-32	Permanent
425.	Massage Appliances	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-32 / IEC 60335-2-32	Permanent
426.	Massage Appliances	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-32 / IEC 60335-2-32	Permanent
427.	Massage Appliances	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-32 / IEC 60335-2-32	Permanent
428.	Massage Appliances	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-32 / IEC 60335-2-32	Permanent
429.	Massage Appliances	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-32 / IEC 60335-2-32	Permanent
430.	Massage Appliances	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IEC 60335-2-32	Permanent
431.	Instantaneous Water Heater	Classification	Qualitative	Cl. 6 of IS 302-2-35 / IEC 60335-2-35	Permanent
432.	Instantaneous Water Heater	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-35 / IEC 60335-2-35	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
433.	Instantaneous Water Heater	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-35 / IEC 60335-2-35	Permanent
434.	Instantaneous Water Heater	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-35 / IEC 60335-2-35	Permanent
435.	Instantaneous Water Heater	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-35 / IEC 60335-2-35	Permanent
436.	Instantaneous Water Heater	Heating	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-2-35 / IEC 60335-2-35	Permanent
437.	Instantaneous Water Heater	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-35 / IEC 60335-2-35	Permanent
438.	Instantaneous Water Heater	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-35 / IEC 60335-2-35	Permanent
439.	Instantaneous Water Heater	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-35 / IEC 60335-2-35	Permanent
440.	Instantaneous Water Heater	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-35 / IEC 60335-2-35	Permanent
441.	Instantaneous Water Heater	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-35 / IEC 60335-2-35	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
442.	Instantaneous Water Heater	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-35 / IEC 60335-2-35	Permanent
443.	Instantaneous Water Heater	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-2-35 / IEC 60335-2-35	Permanent
444.	Instantaneous Water Heater	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-35 / IEC 60335-2-35	Permanent
445.	Instantaneous Water Heater	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-35 / IEC 60335-2-35	Permanent
446.	Instantaneous Water Heater	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-35 / IEC 60335-2-35	Permanent
447.	Instantaneous Water Heater	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-35 / IEC 60335-2-35	Permanent
448.	Instantaneous Water Heater	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999 $\mu\Omega$ , 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-35 / IEC 60335-2-35	Permanent
449.	Instantaneous Water Heater	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-35 / IEC 60335-2-35	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
450.	Instantaneous Water Heater	Components	Qualitative	Cl. 24 of IS 302-2-35 / IEC 60335-2-35	Permanent
451.	Instantaneous Water Heater	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-35 / IEC 60335-2-35	Permanent
452.	Instantaneous Water Heater	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-35 / IEC 60335-2-35	Permanent
453.	Instantaneous Water Heater	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-35 / IEC 60335-2-35	Permanent
454.	Instantaneous Water Heater	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-35 / IEC 60335-2-35	Permanent
455.	Instantaneous Water Heater	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-35 / IEC 60335-2-35	Permanent
456.	Instantaneous Water Heater	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-35 / IEC 60335-2-35	Permanent
457.	Instantaneous Water Heater	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-35 / IEC 60335-2-35	Permanent
458.	Instantaneous Water Heater	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-35 / IEC 60335-2-35	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
459.	Instantaneous Water Heater	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-35 / IEC 60335-2-35	Permanent
460.	Instantaneous Water Heater	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-35 / IEC 60335-2-35	Permanent
461.	Electric Immersion Water Heater	Classification	Qualitative	Cl. 6 of IS 302-2-74 / IEC 60335-2-74	Permanent
462.	Electric Immersion Water Heater	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-74 / IEC 60335-2-74	Permanent
463.	Electric Immersion Water Heater	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-74 / IEC 60335-2-74	Permanent
464.	Electric Immersion Water Heater	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-74 / IEC 60335-2-74	Permanent
465.	Electric Immersion Water Heater	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-74 / IEC 60335-2-74	Permanent
466.	Electric Immersion Water Heater	Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-74 / IEC 60335-2-74	Permanent
467.	Electric Immersion Water Heater	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-74 / IEC 60335-2-74	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
468.	Electric Immersion Water Heater	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-74 / IEC 60335-2-74	Permanent
469.	Electric Immersion Water Heater	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-74 / IEC 60335-2-74	Permanent
470.	Electric Immersion Water Heater	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-74 / IEC 60335-2-74	Permanent
471.	Electric Immersion Water Heater	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-74 / IEC 60335-2-74	Permanent
472.	Electric Immersion Water Heater	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-74 / IEC 60335-2-74	Permanent
473.	Electric Immersion Water Heater	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IS 302-2-74 / IEC 60335-2-74	Permanent
474.	Electric Immersion Water Heater	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-74 / IEC 60335-2-74	Permanent
475.	Electric Immersion Water Heater	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-74 / IEC 60335-2-74	Permanent
476.	Electric Immersion Water Heater	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-74 / IEC 60335-2-74	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
477.	Electric Immersion Water Heater	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-74 / IEC 60335-2-74	Permanent
478.	Electric Immersion Water Heater	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-74 / IEC 60335-2-74	Permanent
479.	Electric Immersion Water Heater	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-74 / IEC 60335-2-74	Permanent
480.	Electric Immersion Water Heater	Components	Qualitative	Cl. 24 of IS 302-2-74 / IEC 60335-2-74	Permanent
481.	Electric Immersion Water Heater	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-74 / IEC 60335-2-74	Permanent
482.	Electric Immersion Water Heater	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-74 / IEC 60335-2-74	Permanent
483.	Electric Immersion Water Heater	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-74 / IEC 60335-2-74	Permanent
484.	Electric Immersion Water Heater	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-74 / IEC 60335-2-74	Permanent
485.	Electric Immersion Water Heater	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-74 / IEC 60335-2-74	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
486.	Electric Immersion Water Heater	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-74 / IEC 60335-2-74	Permanent
487.	Electric Immersion Water Heater	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-74 / IEC 60335-2-74	Permanent
488.	Electric Immersion Water Heater	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-74 / IEC 60335-2-74	Permanent
489.	Electric Immersion Water Heater	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-74 / IEC 60335-2-74	Permanent
490.	Electric Immersion Water Heater	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-74 / IEC 60335-2-74	Permanent
491.	Electric Immersion Water Heater	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-201	Permanent
492.	Electric Immersion Water Heater	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-201	Permanent
493.	Electric Immersion Water Heater	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-201	Permanent
494.	Electric Immersion Water Heater	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-201	Permanent
495.	Electric Immersion Water Heater	Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-201	Permanent
496.	Electric Immersion Water Heater	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-201	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
497.	Electric Immersion Water Heater	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-201	Permanent
498.	Electric Immersion Water Heater	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-201	Permanent
499.	Electric Immersion Water Heater	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60 $^{\circ}$ C	Cl. 15 of IS 302-2-201	Permanent
500.	Electric Immersion Water Heater	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-201	Permanent
501.	Electric Immersion Water Heater	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-201	Permanent
502.	Electric Immersion Water Heater	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IS 302-2-201	Permanent
503.	Electric Immersion Water Heater	Overload Protection of Transformers and associated circuit	0.1 to 300 $^{\circ}$ C	Cl. 17 of IS 302-2-201	Permanent
504.	Electric Immersion Water Heater	Abnormal Operation	0.1 to 300 $^{\circ}$ C	Cl. 19 of IS 302-2-201	Permanent
505.	Electric Immersion Water Heater	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-201	Permanent
506.	Electric Immersion Water Heater	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-201	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
507.	Electric Immersion Water Heater	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-201	Permanent
508.	Electric Immersion Water Heater	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-201	Permanent
509.	Electric Immersion Water Heater	Components	Qualitative	Cl. 24 of IS 302-2-201	Permanent
510.	Electric Immersion Water Heater	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-201	Permanent
511.	Electric Immersion Water Heater	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-201	Permanent
512.	Electric Immersion Water Heater	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-201	Permanent
513.	Electric Immersion Water Heater	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-201	Permanent
514.	Electric Immersion Water Heater	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-201	Permanent
515.	Electric Immersion Water Heater	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-201	Permanent
516.	Electric Immersion Water Heater	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-201	Permanent
517.	Electric Immersion Water Heater	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-201	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
518.	Electric Immersion Water Heater	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-201	Permanent
519.	Electric Immersion Water Heater	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-201	Permanent
520.	Electric Stove	Rating	Qualitative	Cl. 5 of IS 302-2-202	Permanent
521.	Electric Stove	Classification	Qualitative	Cl. 6 of IS 302-2-202	Permanent
522.	Electric Stove	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-202	Permanent
523.	Electric Stove	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-202	Permanent
524.	Electric Stove	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-202	Permanent
525.	Electric Stove	Temperature Rise	0.1 to 300 °C	Cl. 11 of IS 302-2-202	Permanent
526.	Electric Stove	Temperature Rise	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-202	Permanent
527.	Electric Stove	Operation under overload condition of appliance with heating elements	Qualitative	Cl. 12 of IS 302-2-202	Permanent
528.	Electric Stove	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-202	Permanent
529.	Electric Stove	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-202	Permanent



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**Certificate No.:** T-0010

**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
530.	Electric Stove	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-202	Permanent
531.	Electric Stove	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-202	Permanent
532.	Electric Stove	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-202	Permanent
533.	Electric Stove	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-202	Permanent
534.	Electric Stove	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-202	Permanent
535.	Electric Stove	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-202	Permanent
536.	Electric Stove	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-202	Permanent
537.	Electric Stove	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-202	Permanent
538.	Electric Stove	Components	Qualitative	Cl. 24 of IS 302-2-202	Permanent
539.	Electric Stove	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-202	Permanent
540.	Electric Stove	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-202	Permanent
541.	Electric Stove	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-202	Permanent
542.	Electric Stove	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-202	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
543.	Electric Stove	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-202	Permanent
544.	Electric Stove	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-202	Permanent
545.	Electric Stove	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-202	Permanent
546.	Electric Stove	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-202	Permanent
547.	Electric Stove	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-202	Permanent
548.	Electric Coffee Maker	Rating	Qualitative	Cl. 5 of IS 302-2-206	Permanent
549.	Electric Coffee Maker	Classification	Qualitative	Cl. 6 of IS 302-2-206	Permanent
550.	Electric Coffee Maker	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-206	Permanent
551.	Electric Coffee Maker	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-206	Permanent
552.	Electric Coffee Maker	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-206	Permanent
553.	Electric Coffee Maker	Temperature Rise	0.1 to 300 °C	Cl. 11 of IS 302-2-206	Permanent
554.	Electric Coffee Maker	Temperature Rise	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-206	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
555.	Electric Coffee Maker	Operation under overload condition of appliance with heating elements	Qualitative	Cl. 12 of IS 302-2-206	Permanent
556.	Electric Coffee Maker	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-206	Permanent
557.	Electric Coffee Maker	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-206	Permanent
558.	Electric Coffee Maker	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-206	Permanent
559.	Electric Coffee Maker	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-206	Permanent
560.	Electric Coffee Maker	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-206	Permanent
561.	Electric Coffee Maker	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-2-206	Permanent
562.	Electric Coffee Maker	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-206	Permanent
563.	Electric Coffee Maker	Endurance	Qualitative	Cl. 18 of IS 302-2-206	Permanent
564.	Electric Coffee Maker	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-206	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
565.	Electric Coffee Maker	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-206	Permanent
566.	Electric Coffee Maker	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-206	Permanent
567.	Electric Coffee Maker	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-206	Permanent
568.	Electric Coffee Maker	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-206	Permanent
569.	Electric Coffee Maker	Components	Qualitative	Cl. 24 of IS 302-2-206	Permanent
570.	Electric Coffee Maker	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-206	Permanent
571.	Electric Coffee Maker	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-206	Permanent
572.	Electric Coffee Maker	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-206	Permanent
573.	Electric Coffee Maker	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-206	Permanent
574.	Electric Coffee Maker	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-206	Permanent
575.	Electric Coffee Maker	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-206	Permanent
576.	Electric Coffee Maker	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-206	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
577.	Electric Coffee Maker	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-206	Permanent
578.	Electric Coffee Maker	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-206	Permanent
579.	Electric Coffee Maker	Radiation hazards	Qualitative	Cl. 32 of IS 302-2-206	Permanent
580.	Low Speed Food Grinding Machines	Rating	Qualitative	Cl. 5 of IS 302-2-209	Permanent
581.	Low Speed Food Grinding Machines	Classification	Qualitative	Cl. 6 of IS 302-2-209	Permanent
582.	Low Speed Food Grinding Machines	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 302-2-209	Permanent
583.	Low Speed Food Grinding Machines	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-209	Permanent
584.	Low Speed Food Grinding Machines	Starting of Moter-operated appliance	Qualitative	Cl. 9 of IS 302-2-209	Permanent
585.	Low Speed Food Grinding Machines	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-209	Permanent
586.	Low Speed Food Grinding Machines	Temperature Rise	0.1 to 300 °C	Cl. 11 of IS 302-2-209	Permanent
587.	Low Speed Food Grinding Machines	Temperature Rise	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-209	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
588.	Low Speed Food Grinding Machines	Operation under overload condition of appliance with heating elements	Qualitative	Cl. 12 of IS 302-2-209	Permanent
589.	Low Speed Food Grinding Machines	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-209	Permanent
590.	Low Speed Food Grinding Machines	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-209	Permanent
591.	Low Speed Food Grinding Machines	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-209	Permanent
592.	Low Speed Food Grinding Machines	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-209	Permanent
593.	Low Speed Food Grinding Machines	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-209	Permanent
594.	Low Speed Food Grinding Machines	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-2-209	Permanent
595.	Low Speed Food Grinding Machines	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-209	Permanent
596.	Low Speed Food Grinding Machines	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-209	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
597.	Low Speed Food Grinding Machines	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-209	Permanent
598.	Low Speed Food Grinding Machines	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-209	Permanent
599.	Low Speed Food Grinding Machines	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-209	Permanent
600.	Low Speed Food Grinding Machines	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-209	Permanent
601.	Low Speed Food Grinding Machines	Components	Qualitative	Cl. 24 of IS 302-2-209	Permanent
602.	Low Speed Food Grinding Machines	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-209	Permanent
603.	Low Speed Food Grinding Machines	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-209	Permanent
604.	Low Speed Food Grinding Machines	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-209	Permanent
605.	Low Speed Food Grinding Machines	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-209	Permanent
606.	Low Speed Food Grinding Machines	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-209	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
607.	Low Speed Food Grinding Machines	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-209	Permanent
608.	Low Speed Food Grinding Machines	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-209	Permanent
609.	Low Speed Food Grinding Machines	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-209	Permanent
610.	Low Speed Food Grinding Machines	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-209	Permanent
611.	Low Speed Food Grinding Machines	Radiation hazards	Qualitative	Cl. 32 of IS 302-2-209	Permanent
612.	Air Cleaning Appliance	Classification	Qualitative	Cl. 6 of IEC 60335-2-65	Permanent
613.	Air Cleaning Appliance	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IEC 60335-2-65	Permanent
614.	Air Cleaning Appliance	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IEC 60335-2-65	Permanent
615.	Air Cleaning Appliance	Power Input and Current	0.01 to 30A	Cl. 10 of IEC 60335-2-65	Permanent
616.	Air Cleaning Appliance	Heating	0.1 to 300 °C	Cl. 11 of IEC 60335-2-65	Permanent
617.	Air Cleaning Appliance	Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IEC 60335-2-65	Permanent
618.	Air Cleaning Appliance	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IEC 60335-2-65	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
619.	Air Cleaning Appliance	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IEC 60335-2-65	Permanent
620.	Air Cleaning Appliance	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IEC 60335-2-65	Permanent
621.	Air Cleaning Appliance	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IEC 60335-2-65	Permanent
622.	Air Cleaning Appliance	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IEC 60335-2-65	Permanent
623.	Air Cleaning Appliance	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IEC 60335-2-65	Permanent
624.	Air Cleaning Appliance	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IEC 60335-2-65	Permanent
625.	Air Cleaning Appliance	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IEC 60335-2-65	Permanent
626.	Air Cleaning Appliance	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IEC 60335-2-65	Permanent
627.	Air Cleaning Appliance	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IEC 60335-2-65	Permanent
628.	Air Cleaning Appliance	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IEC 60335-2-65	Permanent
629.	Air Cleaning Appliance	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IEC 60335-2-65	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
630.	Air Cleaning Appliance	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IEC 60335-2-65	Permanent
631.	Air Cleaning Appliance	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IEC 60335-2-65	Permanent
632.	Air Cleaning Appliance	Components	Qualitative	Cl. 24 of IEC 60335-2-65	Permanent
633.	Air Cleaning Appliance	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IEC 60335-2-65	Permanent
634.	Air Cleaning Appliance	Terminal for external conductors	Qualitative	Cl. 26 of IEC 60335-2-65	Permanent
635.	Air Cleaning Appliance	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IEC 60335-2-65	Permanent
636.	Air Cleaning Appliance	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IEC 60335-2-65	Permanent
637.	Air Cleaning Appliance	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IEC 60335-2-65	Permanent
638.	Air Cleaning Appliance	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IEC 60335-2-65	Permanent
639.	Air Cleaning Appliance	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IEC 60335-2-65	Permanent
640.	Air Cleaning Appliance	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IEC 60335-2-65	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
641.	Air Cleaning Appliance	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IEC 60335-2-65	Permanent
642.	Air Cleaning Appliance	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IEC 60335-2-65	Permanent
643.	Oral Hygiene Appliance	Classification	Qualitative	Cl. 6 of IEC 60335-2-52	Permanent
644.	Oral Hygiene Appliance	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IEC 60335-2-52	Permanent
645.	Oral Hygiene Appliance	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IEC 60335-2-52	Permanent
646.	Oral Hygiene Appliance	Power Input and Current	0.01 to 30A	Cl. 10 of IEC 60335-2-52	Permanent
647.	Oral Hygiene Appliance	Heating	0.1 to 300 °C	Cl. 11 of IEC 60335-2-52	Permanent
648.	Oral Hygiene Appliance	Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IEC 60335-2-52	Permanent
649.	Oral Hygiene Appliance	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IEC 60335-2-52	Permanent
650.	Oral Hygiene Appliance	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IEC 60335-2-52	Permanent
651.	Oral Hygiene Appliance	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IEC 60335-2-52	Permanent
652.	Oral Hygiene Appliance	Transient Over Voltage	Qualitative: 1.2/50μS, 0.2 to 10kV	Cl. 14 of IEC 60335-2-52	Permanent
653.	Oral Hygiene Appliance	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IEC 60335-2-52	Permanent



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**CAB Name:** International Testing and Compliance (OPC) Private Limited

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**Address:** Village Budhena, Sector-86, Near Shiv Mandir, Faridabad - 121002 Haryana.

**Certificate No.:** T-0010

**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
654.	Oral Hygiene Appliance	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IEC 60335-2-52	Permanent
655.	Oral Hygiene Appliance	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IEC 60335-2-52	Permanent
656.	Oral Hygiene Appliance	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IEC 60335-2-52	Permanent
657.	Oral Hygiene Appliance	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IEC 60335-2-52	Permanent
658.	Oral Hygiene Appliance	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IEC 60335-2-52	Permanent
659.	Oral Hygiene Appliance	Stability and Mechanical Hazards	Qualitative: 0 to 360Deg, 0.2 to 980N	Cl. 20 of IEC 60335-2-52	Permanent
660.	Oral Hygiene Appliance	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IEC 60335-2-52	Permanent
661.	Oral Hygiene Appliance	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999 $\mu\Omega$ , 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IEC 60335-2-52	Permanent
662.	Oral Hygiene Appliance	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IEC 60335-2-52	Permanent
663.	Oral Hygiene Appliance	Components	Qualitative	Cl. 24 of IEC 60335-2-52	Permanent
664.	Oral Hygiene Appliance	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IEC 60335-2-52	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
665.	Oral Hygiene Appliance	Terminal for external conductors	Qualitative	Cl. 26 of IEC 60335-2-52	Permanent
666.	Oral Hygiene Appliance	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IEC 60335-2-52	Permanent
667.	Oral Hygiene Appliance	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IEC 60335-2-52	Permanent
668.	Oral Hygiene Appliance	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IEC 60335-2-52	Permanent
669.	Oral Hygiene Appliance	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IEC 60335-2-52	Permanent
670.	Oral Hygiene Appliance	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IEC 60335-2-52	Permanent
671.	Oral Hygiene Appliance	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IEC 60335-2-52	Permanent
672.	Oral Hygiene Appliance	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IEC 60335-2-52	Permanent
673.	Domestic Electric Food Mixer	Rating	Qualitative	Cl. 5 of IS 4250	Permanent
674.	Domestic Electric Food Mixer	Classification	Qualitative	Cl. 6 of IS 4250	Permanent
675.	Domestic Electric Food Mixer	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 4250	Permanent
676.	Domestic Electric Food Mixer	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 4250	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
677.	Domestic Electric Food Mixer	Power Input and Current	0.01 to 30A	Cl. 10 of IS 4250	Permanent
678.	Domestic Electric Food Mixer	Temperature Rise	0.1 to 300 °C	Cl. 11 of IS 4250	Permanent
679.	Domestic Electric Food Mixer	Temperature Rise	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 4250	Permanent
680.	Domestic Electric Food Mixer	Operation under overload condition of appliance with heating elements	Qualitative	Cl. 12 of IS 4250	Permanent
681.	Domestic Electric Food Mixer	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 4250	Permanent
682.	Domestic Electric Food Mixer	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 4250	Permanent
683.	Domestic Electric Food Mixer	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 4250	Permanent
684.	Domestic Electric Food Mixer	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 4250	Permanent
685.	Domestic Electric Food Mixer	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 4250	Permanent
686.	Domestic Electric Food Mixer	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 4250	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
687.	Domestic Electric Food Mixer	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 4250	Permanent
688.	Domestic Electric Food Mixer	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 4250	Permanent
689.	Domestic Electric Food Mixer	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 4250	Permanent
690.	Domestic Electric Food Mixer	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 4250	Permanent
691.	Domestic Electric Food Mixer	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999µΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 4250	Permanent
692.	Domestic Electric Food Mixer	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 4250	Permanent
693.	Domestic Electric Food Mixer	Components	Qualitative	Cl. 24 of IS 4250	Permanent
694.	Domestic Electric Food Mixer	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 4250	Permanent
695.	Domestic Electric Food Mixer	Terminal for external conductors	Qualitative	Cl. 26 of IS 4250	Permanent
696.	Domestic Electric Food Mixer	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 4250	Permanent
697.	Domestic Electric Food Mixer	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 4250	Permanent
698.	Domestic Electric Food Mixer	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 4250	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
699.	Domestic Electric Food Mixer	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 4250	Permanent
700.	Domestic Electric Food Mixer	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 4250	Permanent
701.	Domestic Electric Food Mixer	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 4250	Permanent
702.	Domestic Electric Food Mixer	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 4250	Permanent
703.	Domestic Electric Food Mixer	Finish	Qualitative	Cl. 33 of IS 4250	Permanent
704.	Domestic Electric Food Mixer	Operational tests	Qualitative: 710, 500, 355 microns	Cl. 34 of IS 4250	Permanent
705.	Domestic Electric Food Mixer	Temperature withstand test for bowl	Qualitative	Cl. 35 of IS 4250	Permanent
706.	Domestic Electric Food Mixer	Test for Controls	Qualitative	Cl. 36 of IS 4250	Permanent
707.	Domestic Electric Food Mixer	Strength assembly	Qualitative	Cl. 37 of IS 4250	Permanent
708.	Mineral Filled Sheathed Heating Elements	Classification	Qualitative	Cl. 6 of IS 4159	Permanent
709.	Mineral Filled Sheathed Heating Elements	Marking and Instruction	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 4159	Permanent
710.	Mineral Filled Sheathed Heating Elements	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 4159	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
711.	Mineral Filled Sheathed Heating Elements	Power Input and Current	0.01 to 30A	Cl. 10 of IS 4159	Permanent
712.	Mineral Filled Sheathed Heating Elements	Heating	0.1 to 300 °C	Cl. 11 of IS 4159	Permanent
713.	Mineral Filled Sheathed Heating Elements	Heating	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 4159	Permanent
714.	Mineral Filled Sheathed Heating Elements	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 4159	Permanent
715.	Mineral Filled Sheathed Heating Elements	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 4159	Permanent
716.	Mineral Filled Sheathed Heating Elements	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 4159	Permanent
717.	Mineral Filled Sheathed Heating Elements	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 4159	Permanent
718.	Mineral Filled Sheathed Heating Elements	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 4159	Permanent
719.	Mineral Filled Sheathed Heating Elements	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 4159	Permanent
720.	Mineral Filled Sheathed Heating Elements	Endurance	Qualitative: 0.01 to 300V, 0.01 to 10kV	Cl. 18 of IS 4159	Permanent
721.	Mineral Filled Sheathed Heating Elements	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 4159	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
722.	Mineral Filled Sheathed Heating Elements	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 4159	Permanent
723.	Mineral Filled Sheathed Heating Elements	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 4159	Permanent
724.	Mineral Filled Sheathed Heating Elements	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 4159	Permanent
725.	Mineral Filled Sheathed Heating Elements	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 4159	Permanent
726.	Mineral Filled Sheathed Heating Elements	Components	Qualitative	Cl. 24 of IS 4159	Permanent
727.	Mineral Filled Sheathed Heating Elements	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 4159	Permanent
728.	Mineral Filled Sheathed Heating Elements	Terminal for external conductors	Qualitative	Cl. 26 of IS 4159	Permanent
729.	Mineral Filled Sheathed Heating Elements	Provision for earthing	0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 4159	Permanent
730.	Mineral Filled Sheathed Heating Elements	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 4159	Permanent
731.	Mineral Filled Sheathed Heating Elements	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 4159	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
732.	Mineral Filled Sheathed Heating Elements	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 4159	Permanent
733.	Mineral Filled Sheathed Heating Elements	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 4159	Permanent
734.	Mineral Filled Sheathed Heating Elements	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 4159	Permanent
735.	Mineral Filled Sheathed Heating Elements	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 4159	Permanent
736.	Domestic Electric Food Mixer	General conditions for the tests	Qualitative	Cl. 5 of IS 4250	Permanent
737.	Domestic Electric Food Mixer	Classification	Qualitative	Cl. 6 of IS 4250	Permanent
738.	Domestic Electric Food Mixer	Marking	Qualitative: 1 to 3600 Sec	Cl. 7 of IS 4250	Permanent
739.	Domestic Electric Food Mixer	Safety requirements	Qualitative	Cl. 8 of IS 4250	Permanent
740.	Domestic Electric Food Mixer	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-14 / IS 4250	Permanent
741.	Domestic Electric Food Mixer	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-2-14 / IS 4250	Permanent
742.	Domestic Electric Food Mixer	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-14 / IS 4250	Permanent
743.	Domestic Electric Food Mixer	Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-14 / IS 4250	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
744.	Domestic Electric Food Mixer	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-14 / IS 4250	Permanent
745.	Domestic Electric Food Mixer	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-14 / IS 4250	Permanent
746.	Domestic Electric Food Mixer	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-14 / IS 4250	Permanent
747.	Domestic Electric Food Mixer	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-14 / IS 4250	Permanent
748.	Domestic Electric Food Mixer	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-14 / IS 4250	Permanent
749.	Domestic Electric Food Mixer	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-14 / IS 4250	Permanent
750.	Domestic Electric Food Mixer	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IS 302-2-14 / IS 4250	Permanent
751.	Domestic Electric Food Mixer	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-14 / IS 4250	Permanent
752.	Domestic Electric Food Mixer	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-14 / IS 4250	Permanent
753.	Domestic Electric Food Mixer	Stability and Mechanical Hazards	Qualitative: 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-14 / IS 4250	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
754.	Domestic Electric Food Mixer	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-14 / IS 4250	Permanent
755.	Domestic Electric Food Mixer	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-14 / IS 4250	Permanent
756.	Domestic Electric Food Mixer	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-14 / IS 4250	Permanent
757.	Domestic Electric Food Mixer	Components	Qualitative	Cl. 24 of IS 302-2-14 / IS 4250	Permanent
758.	Domestic Electric Food Mixer	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-14 / IS 4250	Permanent
759.	Domestic Electric Food Mixer	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-14 / IS 4250	Permanent
760.	Domestic Electric Food Mixer	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-14 / IS 4250	Permanent
761.	Domestic Electric Food Mixer	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-14 / IS 4250	Permanent
762.	Domestic Electric Food Mixer	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-14 / IS 4250	Permanent
763.	Domestic Electric Food Mixer	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-14 / IS 4250	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
764.	Domestic Electric Food Mixer	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-14 / IS 4250	Permanent
765.	Domestic Electric Food Mixer	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-14 / IS 4250	Permanent
766.	Domestic Electric Food Mixer	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-14 / IS 4250	Permanent
767.	Domestic Electric Food Mixer	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-14 / IS 4250	Permanent
768.	Domestic Electric Food Mixer	Endurance for motor and base Assembly	Qualitative	Cl. 9 of IS 4250	Permanent
769.	Domestic Electric Food Mixer	Operational tests	Qualitative	Cl. 10 of IS 4250	Permanent
770.	Domestic Electric Food Mixer	Temperature withstand test for bowl	Qualitative	Cl. 11 of IS 4250	Permanent
771.	Domestic Electric Food Mixer	Test for controls	Qualitative	Cl. 12 of IS 4250	Permanent
772.	Domestic Electric Food Mixer	Strength of assembly	Qualitative	Cl. 13 of IS 4250	Permanent
773.	Domestic Electric Food Mixer	Schedule of tests	Qualitative	Cl. 14 of IS 4250	Permanent
774	Vacuum cleaners and water suction cleaning appliances	Rating	Qualitative	Cl. 5 of IS 302-2-2	Permanent
775	Vacuum cleaners and water suction cleaning appliances	Classification	Qualitative	Cl. 6 of IS 302-2-2	Permanent
776	Vacuum cleaners and water suction cleaning appliances	Marking and Instruction	Qualitative: 0 to 3600 Sec	Cl. 7 of IS 302-2-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
777	Vacuum cleaners and water suction cleaning appliances	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-2	Permanent
778	Vacuum cleaners and water suction cleaning appliances	Power Input and Current	Qualitative: 0 to 6000W	Cl. 10.1 of IS 302-2-2	Permanent
779	Vacuum cleaners and water suction cleaning appliances	Power Input and Current	0.01 to 30A	Cl. 10 .2 of IS 302-2-2	Permanent
780	Vacuum cleaners and water suction cleaning appliances	Temperature Rise	0.1 to 300 °C	Cl. 11 of IS 302-2-2	Permanent
781	Vacuum cleaners and water suction cleaning appliances	Temperature Rise	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-2-2	Permanent
782	Vacuum cleaners and water suction cleaning appliances	Operation under overload condition of appliance with heating elements	Qualitative	Cl. 12 of IS 302-2-2	Permanent
783	Vacuum cleaners and water suction cleaning appliances	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-2	Permanent
784	Vacuum cleaners and water suction cleaning appliances	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-2	Permanent
785	Vacuum cleaners and water suction cleaning appliances	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-2	Permanent
786	Vacuum cleaners and water suction cleaning appliances	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-2	Permanent



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**Reg Office:** 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



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### Scope of Accreditation for Testing

As per ISO/IEC 17025

**CAB Name:** International Testing and Compliance (OPC) Private Limited

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**Address:** Village Budhena, Sector-86, Near Shiv Mandir, Faridabad - 121002 Haryana.

**Certificate No.:** T-0010

**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
787	Vacuum cleaners and water suction cleaning appliances	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-2	Permanent
788	Vacuum cleaners and water suction cleaning appliances	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-2	Permanent
789	Vacuum cleaners and water suction cleaning appliances	Stability and Mechanical Hazards	Qualitative: 0 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-2	Permanent
790	Vacuum cleaners and water suction cleaning appliances	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-2	Permanent
791	Vacuum cleaners and water suction cleaning appliances	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-2	Permanent
792	Vacuum cleaners and water suction cleaning appliances	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-2	Permanent
793	Vacuum cleaners and water suction cleaning appliances	Components	Qualitative	Cl. 24 of IS 302-2-2	Permanent
794	Vacuum cleaners and water suction cleaning appliances	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-2	Permanent
795	Vacuum cleaners and water suction cleaning appliances	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-2	Permanent
796	Vacuum cleaners and water suction cleaning appliances	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-2	Permanent
797	Vacuum cleaners and water suction cleaning appliances	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-2	Permanent



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**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
798	Vacuum cleaners and water suction cleaning appliances	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-2	Permanent
799	Vacuum cleaners and water suction cleaning appliances	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-2	Permanent
800	Vacuum cleaners and water suction cleaning appliances	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-2	Permanent
801	Vacuum cleaners and water suction cleaning appliances	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-2	Permanent
802	Vacuum cleaners and water suction cleaning appliances	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-2	Permanent
803	Vacuum cleaners and water suction cleaning appliances	Resistance to rusting	Qualitative	Cl. 32 of IS 302-2-2	Permanent
804	Domestic Electric Clothes Washing Machines	Classification	Qualitative	Cl. 6 of IS 302-2-7/ IEC 60335-2-7	Permanent
805	Domestic Electric Clothes Washing Machines	Marking and Instruction	Qualitative: 0 to 3600 Sec	Cl. 7 of IS 302-2-7/ IEC 60335-2-7	Permanent
806	Domestic Electric Clothes Washing Machines	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-7/ IEC 60335-2-7	Permanent
807	Domestic Electric Clothes Washing Machines	Power Input and Current	Qualitative: 0 to 6000W	Cl. 10.1 of IS 302-2-7/ IEC 60335-2-7	Permanent
808	Domestic Electric Clothes Washing Machines	Power Input and Current	0.01 to 30A	Cl. 10.2 of IS 302-2-7/ IEC 60335-2-7	Permanent
809	Domestic Electric Clothes Washing Machines	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-7/ IEC 60335-2-7	Permanent
810	Domestic Electric Clothes Washing Machines	Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-7/ IEC 60335-2-7	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
811	Domestic Electric Clothes Washing Machines	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IS 302-2-7/ IEC 60335-2-7	Permanent
812	Domestic Electric Clothes Washing Machines	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-7/ IEC 60335-2-7	Permanent
813	Domestic Electric Clothes Washing Machines	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-7/ IEC 60335-2-7	Permanent
814	Domestic Electric Clothes Washing Machines	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-7/ IEC 60335-2-7	Permanent
815	Domestic Electric Clothes Washing Machines	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60 $^{\circ}$ C	Cl. 15 of IS 302-2-7/ IEC 60335-2-7	Permanent
816	Domestic Electric Clothes Washing Machines	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-7/ IEC 60335-2-74	Permanent
817	Domestic Electric Clothes Washing Machines	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-7/ IEC 60335-2-7	Permanent
818	Domestic Electric Clothes Washing Machines	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IS 302-2-7/ IEC 60335-2-7	Permanent
819	Domestic Electric Clothes Washing Machines	Overload Protection of Transformers and associated circuit	0.1 to 300 $^{\circ}$ C	Cl. 17 of IS 302-2-7/ IEC 60335-2-7	Permanent
820	Domestic Electric Clothes Washing Machines	Endurance	Qualitative	Cl. 18 of IS 302-2-7/ IEC 60335-2-7	Permanent
821	Domestic Electric Clothes Washing Machines	Abnormal Operation	0.1 to 300 $^{\circ}$ C	Cl. 19 of IS 302-2-7/ IEC 60335-2-7	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
822	Domestic Electric Clothes Washing Machines	Stability and Mechanical Hazards	Qualitative: 0 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-7/ IEC 60335-2-7	Permanent
823	Domestic Electric Clothes Washing Machines	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-7/ IEC 60335-2-7	Permanent
824	Domestic Electric Clothes Washing Machines	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-7/ IEC 60335-2-7	Permanent
825	Domestic Electric Clothes Washing Machines	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-7/ IEC 60335-2-7	Permanent
826	Domestic Electric Clothes Washing Machines	Components	Qualitative	Cl. 24 of IS 302-2-7:2024/ IEC 60335-2-7	Permanent
827	Domestic Electric Clothes Washing Machines	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-7/ IEC 60335-2-7	Permanent
828	Domestic Electric Clothes Washing Machines	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-7/ IEC 60335-2-7:2024	Permanent
829	Domestic Electric Clothes Washing Machines	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-7/ IEC 60335-2-7	Permanent
830	Domestic Electric Clothes Washing Machines	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-7:2024/ IEC 60335-2-7	Permanent
831	Domestic Electric Clothes Washing Machines	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-7/ IEC 60335-2-7	Permanent
832	Domestic Electric Clothes Washing Machines	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-7/ IEC 60335-2-7	Permanent
833	Domestic Electric Clothes Washing Machines	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-7/ IEC 60335-2-7:2024	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
834	Domestic Electric Clothes Washing Machines	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-7/ IEC 60335-2-7	Permanent
835	Domestic Electric Clothes Washing Machines	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-7/ IEC 60335-2-7	Permanent
836	Domestic Electric Clothes Washing Machines	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-7/ IEC 60335-2-7	Permanent
837	Electric Dishwashers	Classification	Qualitative	Cl. 6 of IEC 60335-2-5	Permanent
838	Electric Dishwashers	Marking and Instruction	Qualitative: 0 to 3600 Sec	Cl. 7 of IEC 60335-2-5	Permanent
839	Electric Dishwashers	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IEC 60335-2-5	Permanent
840	Electric Dishwashers	Power Input and Current	Qualitative: 0 to 6000W	Cl. 10.1 of IEC 60335-2-5	Permanent
841	Electric Dishwashers	Power Input and Current	0.01 to 30A	Cl. 10.2 of IEC 60335-2-5	Permanent
842	Electric Dishwashers	Heating	0.1 to 300 °C	Cl. 11 of IEC 60335-2-5	Permanent
843	Electric Dishwashers	Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IEC 60335-2-5	Permanent
844	Electric Dishwashers	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IEC 60335-2-5	Permanent
845	Electric Dishwashers	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IEC 60335-2-5	Permanent
846	Electric Dishwashers	Leakage Current and Electric Strength at	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IEC 60335-2-5	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		Operating Temperature			
847	Electric Dishwashers	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IEC 60335-2-5	Permanent
848	Electric Dishwashers	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60 $^{\circ}$ C	Cl. 15 of IEC 60335-2-5	Permanent
849	Electric Dishwashers	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IEC 60335-2-5	Permanent
850	Electric Dishwashers	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IEC 60335-2-5	Permanent
851	Electric Dishwashers	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu$ $\Omega$	Cl. 17 of IEC 60335-2-5	Permanent
852	Electric Dishwashers	Overload Protection of Transformers and associated circuit	0.1 to 300 $^{\circ}$ C	Cl. 17 of IEC 60335-2-5	Permanent
853	Electric Dishwashers	Endurance	Qualitative	Cl. 18 of IEC 60335-2-5	Permanent
854	Electric Dishwashers	Abnormal Operation	0.1 to 300 $^{\circ}$ C	Cl. 19 of IEC 60335-2-5	Permanent
855	Electric Dishwashers	Stability and Mechanical Hazards	Qualitative: 0 to 360Deg, 0.2 to 980N	Cl. 20 of IEC 60335-2-5:2018	Permanent
856	Electric Dishwashers	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IEC 60335-2-5	Permanent
857	Electric Dishwashers	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250 $^{\circ}$ C, 0.01 to 1999 $\mu$ $\Omega$ , 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IEC 60335-2-5	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
858	Electric Dishwashers	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IEC 60335-2-5	Permanent
859	Electric Dishwashers	Components	Qualitative	Cl. 24 of IEC 60335-2-5	Permanent
860	Electric Dishwashers	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IEC 60335-2-5	Permanent
861	Electric Dishwashers	Terminal for external conductors	Qualitative	Cl. 26 of IEC 60335-2-5	Permanent
862	Electric Dishwashers	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IEC 60335-2-5	Permanent
863	Electric Dishwashers	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IEC 60335-2-5	Permanent
864	Electric Dishwashers	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IEC 60335-2-5	Permanent
865	Electric Dishwashers	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IEC 60335-2-5	Permanent
866	Electric Dishwashers	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IEC 60335-2-5	Permanent
867	Electric Dishwashers	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IEC 60335-2-5	Permanent
868	Electric Dishwashers	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IEC 60335-2-5	Permanent
869	Electric Dishwashers	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IEC 60335-2-5	Permanent
870	Microwave Ovens	Classification	Qualitative	Cl. 6 of IS 302-2-25/ IEC 60335-2-25	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
871	Microwave Ovens	Marking and Instruction	Qualitative: 0 to 3600 Sec	Cl. 7 of IS 302-2-25/ IEC 60335-2-25	Permanent
872	Microwave Ovens	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-25/ IEC 60335-2-25	Permanent
873	Microwave Ovens	Power Input and Current	Qualitative: 0 to 6000W	Cl. 10.1 of IS 302-2-25/ IEC 60335-2-25	Permanent
874	Microwave Ovens	Power Input and Current	0.01 to 30A	Cl. 10.2 of IS 302-2-25/ IEC 60335-2-25	Permanent
875	Microwave Ovens	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-25/ IEC 60335-2-25	Permanent
876	Microwave Ovens	Heating	Qualitative: 0.01to 1999μΩ	Cl. 11 of IS 302-2-25/ IEC 60335-2-25	Permanent
877	Microwave Ovens	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IS 302-2-25/ IEC 60335-2-25	Permanent
878	Microwave Ovens	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-25/ IEC 60335-2-25	Permanent
879	Microwave Ovens	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-25/ IEC 60335-2-25	Permanent
880	Microwave Ovens	Transient Over Voltage	Qualitative: 1.2/50μS, 0.2 to 10kV	Cl. 14 of IS 302-2-25/ IEC 60335-2-25	Permanent
881	Microwave Ovens	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-25/ IEC 60335-2-25	Permanent
882	Microwave Ovens	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-25/ IEC 60335-2-25	Permanent
883	Microwave Ovens	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-25/ IEC 60335-2-25	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
884	Microwave Ovens	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-2-25/ IEC 60335-2-25	Permanent
885	Microwave Ovens	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-2-25/ IEC 60335-2-25	Permanent
886	Microwave Ovens	Endurance	Qualitative	Cl. 18 of IS 302-2-25/ IEC 60335-2-25	Permanent
887	Microwave Ovens	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-25/ IEC 60335-2-25	Permanent
889	Microwave Ovens	Stability and Mechanical Hazards	Qualitative: 0 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-25/ IEC 60335-2-25	Permanent
890	Microwave Ovens	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-25/ IEC 60335-2-25	Permanent
891	Microwave Ovens	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999 $\mu\Omega$ , 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-25/ IEC 60335-2-25	Permanent
892	Microwave Ovens	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-25/ IEC 60335-2-25	Permanent
893	Microwave Ovens	Components	Qualitative	Cl. 24 of IS 302-2-25/ IEC 60335-2-25	Permanent
894	Microwave Ovens	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-25/ IEC 60335-2-25	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
895	Microwave Ovens	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-25/ IEC 60335-2-25	Permanent
896	Microwave Ovens	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-25/ IEC 60335-2-25	Permanent
897	Microwave Ovens	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-25/ IEC 60335-2-25	Permanent
898	Microwave Ovens	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-25/ IEC 60335-2-25	Permanent
899	Microwave Ovens	Clearances, creepage distance and solid insulation	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-25/ IEC 60335-2-25	Permanent
900	Microwave Ovens	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-25/ IEC 60335-2-25	Permanent
901	Microwave Ovens	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-25/ IEC 60335-2-25	Permanent
902	Microwave Ovens	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-25/ IEC 60335-2-25	Permanent
903	Microwave Ovens	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-25/ IEC 60335-2-25	Permanent
904	Insect Killers	Classification	Qualitative	Cl. 6 of IS 302-2-59/ IEC 60335-2-59	Permanent
905	Insect Killers	Marking and Instruction	Qualitative: 0 to 3600 Sec	Cl. 7 of IS 302-2-59/ IEC 60335-2-59	Permanent
906	Insect Killers	Protection against access to live Parts	Qualitative: 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-2-59/ IEC 60335-2-59	Permanent
907	Insect Killers	Power Input and Current	Qualitative: 0 to 6000W	Cl. 10.1 of IS 302-2-59/ IEC 60335-2-59	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
908	Insect Killers	Power Input and Current	0.01 to 30A	Cl. 10.2 of IS 302-2-59/ IEC 60335-2-59	Permanent
909	Insect Killers	Heating	0.1 to 300 °C	Cl. 11 of IS 302-2-59/ IEC 60335-2-59	Permanent
910	Insect Killers	Heating	Qualitative: 0.01to 1999 $\mu\Omega$	Cl. 11 of IS 302-2-59/ IEC 60335-2-59	Permanent
911	Insect Killers	Charging of Metal-ion Batteries	Qualitative: 3 to 480V, 0.6 to 480A	Cl. 12 of IS 302-2-59/ IEC 60335-2-59	Permanent
912	Insect Killers	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-2-59/ IEC 60335-2-59	Permanent
913	Insect Killers	Leakage Current and Electric Strength at Operating Temperature	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-2-59/ IEC 60335-2-59	Permanent
914	Insect Killers	Transient Over Voltage	Qualitative: 1.2/50 $\mu$ S, 0.2 to 10kV	Cl. 14 of IS 302-2-59/ IEC 60335-2-59	Permanent
915	Insect Killers	Moisture Resistance	Qualitative: Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-2-59/ IEC 60335-2-59	Permanent
916	Insect Killers	Leakage Current and Electric Strength	Qualitative: 0.01 to 10kV	Cl. 16 of IS 302-2-59/ IEC 60335-2-59	Permanent
917	Insect Killers	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-2-59/ IEC 60335-2-59	Permanent
918	Insect Killers	Overload Protection of Transformers and associated circuit	Qualitative: 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-2-59/ IEC 60335-2-59	Permanent
919	Insect Killers	Overload Protection of Transformers	0.1 to 300 °C	Cl. 17 of IS 302-2-59/ IEC 60335-2-59	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		and associated circuit			
920	Insect Killers	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-2-59/ IEC 60335-2-59	Permanent
921	Insect Killers	Stability and Mechanical Hazards	Qualitative: 0 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-2-59/ IEC 60335-2-59	Permanent
922	Insect Killers	Mechanical Strength	Qualitative: 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-2-59/ IEC 60335-2-59	Permanent
923	Insect Killers	Construction	Qualitative: 0.1 to 1.5Nm, Amb to 250°C, 0.01 to 1999μΩ, 1 to 5Nm, 0.1 to 10kV, 0.05 to 196.10	Cl. 22 of IS 302-2-59/ IEC 60335-2-59	Permanent
924	Insect Killers	Internal Wiring	Qualitative: 0.1 to 10kV	Cl. 23 of IS 302-2-59/ IEC 60335-2-59	Permanent
925	Insect Killers	Components	Qualitative	Cl. 24 of IS 302-2-59/ IEC 60335-2-59	Permanent
926	Insect Killers	Supply connection and external flexible cords	Qualitative: 0.01 to 10kV	Cl. 25 of IS 302-2-59/ IEC 60335-2-59	Permanent
927	Insect Killers	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-2-59 / IEC 60335-2-59	Permanent
928	Insect Killers	Provision for earthing	Qualitative: 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-2-59/ IEC 60335-2-59	Permanent
929	Insect Killers	Screws and Connection	Qualitative: 0.1 to 5Nm	Cl. 28 of IS 302-2-59/ IEC 60335-2-59	Permanent
930	Insect Killers	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl. 29 of IS 302-2-59/ IEC 60335-2-59	Permanent
931	Insect Killers	Clearances, creepage	Qualitative: 0.01 to 10kV,	Cl. 29 of IS 302-2-59/ IEC 60335-2-59	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		distance and solid insulation			
932	Insect Killers	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-2-59/ IEC 60335-2-59	Permanent
933	Insect Killers	Resistance Heat and Fire	Qualitative: Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9Sec	Cl. 30 of IS 302-2-59/ IEC 60335-2-59	Permanent
934	Insect Killers	Resistance to rusting	Qualitative: Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-2-59/ IEC 60335-2-59	Permanent
935	Insect Killers	Radiation, toxicity and similar hazards	Qualitative	Cl. 32 of IS 302-2-59/ IEC 60335-2-59	Permanent
936	Induction Hob	Power Measurement	Qualitative	IS 19014	Permanent
937	Induction Hob	Energy consumption	Qualitative: 0 to 4000W, 0 to 9999MWh	Cl. 10.5 IS 19014	Permanent
938	Induction Hob	Heating up-time	Qualitative: 0 to 4000W, 0 to 300° C	Cl. 10.6 IS 19014	Permanent
939	Induction Hob	Stand-up Power	Qualitative: 0 to 30W	Cl. 15 IS 19014	Permanent
940	Induction Hob	Thermal Efficiency	Qualitative: 0 to 4000W, 0 to 300°C, 0 to 99999MWh	Cl. 10.7 IS 19014	Permanent
941	Microwave Oven	Microwave Power Output	Qualitative: 0 to 4000W, 0 to 300°C, 0 to 99999MWh	Cl.8 IEC 60705	Permanent
942	Microwave Oven	Microwave Function Efficiency	0 to 99999MWh	Cl. 9 IEC 60705	Permanent
943	Microwave Oven	Energy consumption for the microwave function	0 to 4000W, 0 to 300°C	Cl. 14 IEC 60705	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
944	Microwave Oven	Standby Power Consumption	0 to 4000W, 0 to 300°C, 0 to 99999MWh	Cl. 15 IEC 60705	Permanent
945	Induction Hob	Standby Power	Qualitative: 0 to 30W	IEC 62301	Permanent
946	Microwave Oven	Standby Power	Qualitative: 0 to 30W	IEC 62301	Permanent

#### Discipline: Electronics : Group: Environmental Test Facility

1.	Electrical & Electronics items	Degree of protection provide by enclosures (IP Test)	Qualitative	IS/IEC 60529	Permanent
2.	Electrical & Electronics items	Degree of protection(IP1X)	Qualitative Rigid Sphere 50mm	IS/IEC 60529	Permanent
3.	Electrical & Electronics items	Degree of protection(IP2X)	Qualitative Rigid Sphere 12.5mm	IS/IEC 60529	Permanent
4.	Electrical & Electronics items	Degree of protection(IP3X)	Qualitative Rigid Sphere 2.5mm	IS/IEC 60529	Permanent
5.	Electrical & Electronics items	Degree of protection(IP4X)	Qualitative Rigid Sphere 1mm	IS/IEC 60529	Permanent
6.	Electrical & Electronics items	Degree of protection(IP5X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	IS/IEC 60529	Permanent
7.	Electrical & Electronics items	Degree of protection(IP6X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	IS/IEC 60529	Permanent
8.	Electrical & Electronics items	Degree of protection(IPX1)	Qualitative Water flow rate 1mm/min	IS/IEC 60529	Permanent
			Qualitative	IS/IEC 60529	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
9.	Electrical & Electronics items	Degree of protection(IPX2)	Water flow rate 3mm/min		
10.	Electrical & Electronics items	Degree of protection(IPX3)	Qualitative Oscillating tube dia. 1600mm and rotating angle 60°, 120°.	IS/IEC 60529	Permanent
11.	Electrical & Electronics items	Degree of protection(IPX4)	Qualitative Oscillating tube dia. 1600mm and rotating angle 180°, 360°.	IS/IEC 60529	Permanent
12.	Electrical & Electronics items	Degree of protection(IPX5)	Qualitative Jet Nozzle Dia. 6.3 mm	IS/IEC 60529	Permanent
13.	Electrical & Electronics items	Degree of protection(IPX6)	Qualitative Jet Nozzle Dia. 12.5 mm	IS/IEC 60529	Permanent
14.	Electrical & Electronics items	Degree of protection(IPX7)	Qualitative Water tank with height 1 m	IS/IEC 60529	Permanent
15.	Electrical & Electronics items	Degree of protection(IPX8)	Qualitative Water tank with height 1 m	IS/IEC 60529	Permanent
16.	Electrical & Electronics items	Degree of protection provide by enclosures (IP Test)	Qualitative	ISO 20653	Permanent
17.	Electrical & Electronics items	Degree of protection(IP1X)	Qualitative Rigid Sphere 50mm	ISO 20653	Permanent
18.	Electrical & Electronics items	Degree of protection(IP2X)	Qualitative Rigid Sphere 12.5mm	ISO 20653	Permanent
			Qualitative	ISO 20653	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
19.	Electrical & Electronics items	Degree of protection(IP3X)	Rigid Sphere 2.5mm		
20.	Electrical & Electronics items	Degree of protection(IP4X)	Qualitative Rigid Sphere 1mm	ISO 20653	Permanent
21.	Electrical & Electronics items	Degree of protection(IP5X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	ISO 20653	Permanent
22.	Electrical & Electronics items	Degree of protection(IP6X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	ISO 20653	Permanent
23.	Electrical & Electronics items	Degree of protection(IPX1)	Qualitative Water flow rate 1mm/min	ISO 20653	Permanent
24.	Electrical & Electronics items	Degree of protection(IPX2)	Qualitative Water flow rate 3mm/min	ISO 20653	Permanent
25.	Electrical & Electronics items	Degree of protection(IPX3)	Qualitative Oscillating tube dia. 1600mm and rotating angle 60 °, 120 °.	ISO 20653	Permanent
26.	Electrical & Electronics items	Degree of protection(IPX4)	Qualitative Oscillating tube dia. 1600mm and rotating angle 180 °, 360 °.	ISO 20653	Permanent
27.	Electrical & Electronics items	Degree of protection(IPX5)	Qualitative Jet Nozzle Dia. 6.3 mm	ISO 20653	Permanent
28.	Electrical & Electronics items	Degree of protection(IPX6)	Qualitative Jet Nozzle Dia. 12.5 mm	ISO 20653	Permanent
			Qualitative	ISO 20653	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
29.	Electrical & Electronics items	Degree of protection(IPX7)	Water tank with height 1 m		
30.	Electrical & Electronics items	Degree of protection(IPX8)	Qualitative Water tank with height 1 m	ISO 20653	Permanent
31.	Electrical & Electronics items	Method 507 Humidity	Qualitative Amb to 60°C, Amb to 95%RH	MIL-STD-810H	Permanent
32.	Electrical & Electronics items	Method 514 Humidity	Qualitative 5 to 3000Hz	MIL-STD-810H	Permanent
33.	Electrical & Electronics items	Method 516 shock	Qualitative upto 200 'g'	MIL-STD-810H	Permanent
34.	Electrical & Electronics items	Method 501 HIGH TEMPERATURE	Qualitative Amb to 250°C	MIL-STD-810H	Permanent
35.	Electrical & Electronics items	Method 503 Temperature Shock	Qualitative -70°C to 150°C	MIL-STD-810H	Permanent
37.	Electrical & Electronics items	Method 510 Sand and Dust	Qualitative	MIL-STD-810H	Permanent
38.	Electrical & Electronics items	Method 500 Low Pressure	Qualitative 100 kPa to 7 kPa, 20°C to 60 °C	MIL-STD-810H	Permanent
39.	Electrical & Electronics items	Method 502 Low Temperature	Qualitative -70°C to 150°C	MIL-STD-810H	Permanent
40.	Electrical & Electronics items	TEST NUMBER 3 Altitude	Qualitative 100 kPa to 7 kPa, 20°C to 60 °C	JSS 55555	Permanent
41.	Electrical & Electronics items	TEST NUMBER 5 Bump	Qualitative	JSS 55555	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
42.	Electrical & Electronics items	TEST NUMBER 10 Damp Heat	Qualitative Amb to 250°C	JSS 55555	Permanent
43.	Electrical & Electronics items	TEST NUMBER 11 Drip Proof	Qualitative	JSS 55555	Permanent
44.	Electrical & Electronics items	TEST NUMBER 13 Drop	Qualitative	JSS 55555	Permanent
45.	Electrical & Electronics items	TEST NUMBER 14 Dust	Qualitative	JSS 55555	Permanent
46.	Electrical & Electronics items	TEST NUMBER 17 High Temperature	Qualitative Amb to 250°C	JSS 55555	Permanent
47.	Electrical & Electronics items	TEST NUMBER 20 Low Temperature	Qualitative -70°C to 150°C	JSS 55555	Permanent
48.	Electrical & Electronics items	TEST NUMBER 22 Rapid Temperature Cycling	Qualitative -70°C to 150°C	JSS 55555	Permanent
49.	Electrical & Electronics items	TEST NUMBER 24 Shock or Impact	Qualitative upto 200 'g'	JSS 55555	Permanent
50	Electrical & Electronics items	TEST NUMBER 28 Vibration	Qualitative 0 to 3000Hz	JSS 55555	Permanent
51	Electrical & Electronics items	Shock and Vibration test	Qualitative 0 to 3000Hz	IEC 61373: 2010	Permanent
52	Electronic equipment used in rolling stock	Dry Heat Test	Qualitative Amb to 250°C	Cl. No.12.2.5, IEC 60571	Permanent
53	Electronic equipment used in rolling stock	Vibration, Shock and bump Test	Qualitative 0 to 3000Hz	Cl. No.12.2.12, IEC 60571	Permanent
54	Electronic equipment used in rolling stock	Cold Start Test	Qualitative -70°C to 150°C	Cl. No.12.2.4, IEC 60571	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
55	Electronic equipment used in rolling stock	Damp Heat Test, Cyclic	Qualitative -70°C to 150°C	Cl. No.12.2.6, IEC 60571	Permanent
56	Electronic equipment used in rolling stock	Low Temperature Storage Test	Qualitative -70 to 150°C	Cl. No.12.2.15, IEC 60571	Permanent
57	Railway Applications-Rolling Stock- Electronic Equipment	Dry Heat Test	Qualitative Amb to 250°C	Cl. No.13.4.5, 4.4.2 and 4.4.3, EN 50155	Permanent
58	Railway Applications-Rolling Stock- Electronic Equipment	Low Temperature Storage Test	Qualitative -70°C to 150°C	Cl. No.13.4.6, 4.1, EN 50155	Permanent
59	Railway Applications-Rolling Stock- Electronic Equipment	Low Temperature Test	Qualitative -70°C to 150°C	Cl. No.13.4.4, 4.4.2, EN 50155	Permanent
60	Railway Applications-Rolling Stock- Electronic Equipment	Cyclic Damp Heat Test	Qualitative -70°C to 150°C	Cl. No.13.4.8, 4.4.2 and 4.4.7, EN 50155	Permanent
61	Railway Applications-Rolling Stock- Electronic Equipment	Enclosure Protection Test (IP code)	Qualitative	Cl. No.13.4.10.5, 4.4.7 and 10.9, EN 50155	Permanent
62	Railway Applications-Rolling Stock- Electronic Equipment	Vibration and Shock Test	Qualitative 0 to 3000Hz	Cl. No.13.4.10, 4.4.5, EN 50155	Permanent
63	Railway Applications-Rolling Stock- Electronic Equipment	Rapid Temperature Variation Test	Qualitative -70 to 150°C	Cl. No.13.4.12, 4.4.4, EN 50155	Permanent
64	Electrical & Electronics items	Fire hazard testing (needle flame test)	Qualitative 0 to 1000°C, 0 to 120°C	IEC 60695-11-5	Permanent
65	Electrical & Electronics items	Vibration Test	Qualitative 0 to 3000Hz	Cl.No.4.1, IS 10250	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
66	Electrical & Electronics items	Dry Heat Test	Qualitative Amb to 250°C	Cl.No.4.2, IS 10250	Permanent
67	Electrical & Electronics items	Damp Heat (Cycling Test)	Qualitative -70°C to 150°C	Cl.No.4.3, IS 10250	Permanent
68	Electrical & Electronics items	Cold Test	Qualitative -70°C to 150°C	Cl.No.4.4, IS 10250	Permanent
69	Electrical & Electronics items	Rapid Change of Temperature	Qualitative -70 °C to 150°C	Cl.No.4.5, IS 10250	Permanent
70	Electrical & Electronics items	Dust	Qualitative	Cl.No.4.6, IS 10250	Permanent
71	Electrical & Electronics items	Drop and Topple Test	Qualitative	Cl.No.4.10, IS 10250	Permanent
72	Electrical & Electronics items	Bump Test	Qualitative	Cl.No.4.11, IS 10250	Permanent
73	Electrical & Electronics items	Vibration test (Sinusoidal)	Qualitative 0 to 3000Hz	IEC 60068 (Part 2/Sec 6)	Permanent
74	Electrical & Electronics items	Vibration test (Random)	Qualitative 0 to 3000Hz	IEC 60068 (Part 2/Sec 64)	Permanent
75	Electrical & Electronics items	Dry Heat Test	Qualitative Amb to 250°C	IEC 60068 (Part 2/Sec 2)	Permanent
76	Electrical & Electronics items	Change of Temperature test	Qualitative -70 °C to 150°C	IEC 60068 (Part 2/Sec 14)	Permanent
77	Electrical & Electronics items	Cold Test	Qualitative -70°C to 150°C	IEC 60068 (Part 2/Sec 1)	Permanent
78	Electrical & Electronics items	Shock/Bump test	Qualitative Upto 200g	IEC 60068 (Part 2/Sec 27)	Permanent
79		Shock Test	Qualitative	IS 9000 (Part 7/Sec 1)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Electrical & Electronics items		Upto 200g		
80	Electrical & Electronics items	Free Fall	Qualitative	Cl. No.5.2, IEC 60068 (Part 2/Sec 31)	Permanent
81	Electrical & Electronics items	Drop and Topple Test	Qualitative	Cl. No.7.1, IEC 60068 (Part 2/Sec 31)	Permanent
82	Electrical & Electronics items	Temperature/Humidity cyclic test	Qualitative Amb to 60°C, Amb to 95%RH	IEC 60068 (Part 2/Sec 38)	Permanent
83	Electrical & Electronics items	Damp heat cyclic test	Qualitative -70°C to 150°C	IEC 60068 (Part 2/Sec 30)	Permanent
84	Electrical & Electronics items	Damp heat steady state	Qualitative Amb to 250°C	IEC 60068 (Part 2/Sec 78):	Permanent
85	Electrical & Electronics items	Damp heat steady state	Qualitative Amb to 250°C	IS 9000 (Part 4)	Permanent
86	Electrical & Electronics items	Combined Sequential Cold, Low Air Pressure and Damp Heat	Qualitative 100 kPa to 7 kPa, 20°C to 60 °C	IEC 60068 (Part 2/Sec 39)	Permanent
87	Electrical & Electronics items	Vibration Test	Qualitative 0 to 3000Hz	Cl. No.4.1, ISO 16750 (Part 3)	Permanent
88	Electrical & Electronics items	Mechanical shock	Qualitative Upto 200g	Cl. No.4.2, ISO 16750 (Part 3)	Permanent
89	Electrical & Electronics items	Free Fall	Qualitative	Cl. No.4.3, ISO 16750 (Part 3)	Permanent
90	Electrical & Electronics items	Mechanical vibration and shock	Qualitative 0 to 3000Hz	ISO 2631 (Part 1)	Permanent
91	Electrical & Electronics items	TEST NUMBER 1 Altitude	Qualitative 100 kPa to 7 kPa, 20°C to 60 °C	JSS 5855-11	Permanent



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As per ISO/IEC 17025

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**Address:** Village Budhena, Sector-86, Near Shiv Mandir, Faridabad - 121002 Haryana.

**Certificate No.:** T-0010

**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
92	Electrical & Electronics items	TEST NUMBER 3 Bump	Qualitative	JSS 5855-11	Permanent
93	Electrical & Electronics items	TEST NUMBER 6 Damp Heat	Qualitative	JSS 5855-11	Permanent
94	Electrical & Electronics items	TEST NUMBER 8 Drop	Qualitative	JSS 5855-11	Permanent
95	Electrical & Electronics items	TEST NUMBER 9 Dust	Qualitative	JSS 5855-11	Permanent
96	Electrical & Electronics items	TEST NUMBER 10 HIGH TEMPERATURE	Qualitative Amb to 250°C	JSS 5855-11	Permanent
97	Electrical & Electronics items	TEST NUMBER 12 LOW TEMPERATURE	Qualitative -70°C to 150°C	JSS 5855-11	Permanent
98	Electrical & Electronics items	TEST NUMBER 14 RAPID TEMPERATURE CYCLING (THERMAL SHOCK)	Qualitative -70°C to 150°C	JSS 5855-11	Permanent
99	Electrical & Electronics items	TEST NUMBER 16 Shock or Impact	Qualitative Upto 200g	JSS 5855-11	Permanent
100	Electrical & Electronics items	TEST NUMBER 20 Vibration	Qualitative 0 to 3000Hz	JSS 5855-11	Permanent
101	Procedure for basic climatic and durability tests	Dry Heat Test	Qualitative Amb to 250°C	IS 10236 – 1	Permanent
102	Procedure for basic climatic and durability tests	Cold Test	Qualitative -70°C to 150°C	IS 10236 – 1	Permanent
103	Procedure for basic climatic and durability tests	Damp heat test	Qualitative Amb to 250°C	IS 10236 – 1	Permanent



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**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
104	Procedure for basic climatic and durability tests	Damp heat cyclic test	Qualitative -70°C to 150°C	IS 10236 – 1	Permanent
105	Procedure for basic climatic and durability tests	Thermal shock test (Rapid change of temperature)	Qualitative -70°C to 150°C	IS 10236 – 1	Permanent
106	Procedure for basic climatic and durability tests	Low air pressure (altitude) test	Qualitative 100 kPa to 7 kPa, 20 to 60 °C	IS 10236 – 1	Permanent
107	Procedure for basic climatic and durability tests	Bump test	Qualitative	IS 10236 – 1	Permanent
108	Procedure for basic climatic and durability tests	Vibration test	Qualitative 0 to 3000Hz	IS 10236 – 1	Permanent
109	Procedure for basic climatic and durability tests	Shock test	Qualitative Upto 200g	IS 10236 – 1	Permanent
110	Procedure for basic climatic and durability tests	Dust test	Qualitative	IS 10236 – 1	Permanent
111	Procedure for basic climatic and durability tests	Drop test	Qualitative	IS 10236 – 1	Permanent
112	Electrical & Electronics items	50 W horizontal and vertical flame test methods	Qualitative	IEC 60695-11-10	Permanent

Discipline: Electrical : Group: Environmental Test Facility

1.	Electrical & Electronics items	Degree of protection provide by enclosures (IP Test)	Qualitative	IS/IEC 60529	Permanent
			Qualitative	IS/IEC 60529	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
2.	Electrical & Electronics items	Degree of protection(IP1X)	Rigid Sphere 50mm		
3.	Electrical & Electronics items	Degree of protection(IP2X)	Qualitative Rigid Sphere 12.5mm	IS/IEC 60529	Permanent
4.	Electrical & Electronics items	Degree of protection(IP3X)	Qualitative Rigid Sphere 2.5mm	IS/IEC 60529	Permanent
5.	Electrical & Electronics items	Degree of protection(IP4X)	Qualitative Rigid Sphere 1mm	IS/IEC 60529	Permanent
6.	Electrical & Electronics items	Degree of protection(IP5X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	IS/IEC 60529	Permanent
7.	Electrical & Electronics items	Degree of protection(IP6X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	IS/IEC 60529	Permanent
8.	Electrical & Electronics items	Degree of protection(IPX1)	Qualitative Water flow rate 1mm/min	IS/IEC 60529	Permanent
9.	Electrical & Electronics items	Degree of protection(IPX2)	Qualitative Water flow rate 3mm/min	IS/IEC 60529	Permanent
10.	Electrical & Electronics items	Degree of protection(IPX3)	Qualitative Oscillating tube dia. 1600mm and rotating angle 60°, 120°.	IS/IEC 60529	Permanent
11.	Electrical & Electronics items	Degree of protection(IPX4)	Qualitative Oscillating tube dia. 1600mm and rotating angle 180°, 360°.	IS/IEC 60529	Permanent
12.	Electrical & Electronics items	Degree of protection(IPX5)	Qualitative Jet Nozzle Dia. 6.3 mm	IS/IEC 60529	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
13.	Electrical & Electronics items	Degree of protection(IPX6)	Qualitative Jet Nozzle Dia. 12.5 mm	IS/IEC 60529	Permanent
14.	Electrical & Electronics items	Degree of protection(IPX7)	Qualitative Water tank with height 1 m	IS/IEC 60529	Permanent
15.	Electrical & Electronics items	Degree of protection(IPX8)	Qualitative Water tank with height 1 m	IS/IEC 60529	Permanent
16.	Electrical & Electronics items	Degree of protection provide by enclosures (IP Test)	Qualitative	ISO 20653	Permanent
17.	Electrical & Electronics items	Degree of protection(IP1X)	Qualitative Rigid Sphere 50mm	ISO 20653	Permanent
18.	Electrical & Electronics items	Degree of protection(IP2X)	Qualitative Rigid Sphere 12.5mm	ISO 20653	Permanent
19.	Electrical & Electronics items	Degree of protection(IP3X)	Qualitative Rigid Sphere 2.5mm	ISO 20653	Permanent
20.	Electrical & Electronics items	Degree of protection(IP4X)	Qualitative Rigid Sphere 1mm	ISO 20653	Permanent
21.	Electrical & Electronics items	Degree of protection(IP5X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	ISO 20653	Permanent
22.	Electrical & Electronics items	Degree of protection(IP6X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	ISO 20653	Permanent
			Qualitative	ISO 20653	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
23.	Electrical & Electronics items	Degree of protection(IPX1)	Water flow rate 1mm/min		
24.	Electrical & Electronics items	Degree of protection(IPX2)	Qualitative Water flow rate 3mm/min	ISO 20653	Permanent
25.	Electrical & Electronics items	Degree of protection(IPX3)	Qualitative Oscillating tube dia. 1600mm and rotating angle 60 °, 120 °.	ISO 20653	Permanent
26.	Electrical & Electronics items	Degree of protection(IPX4)	Qualitative Oscillating tube dia. 1600mm and rotating angle 180 °, 360 °.	ISO 20653	Permanent
27.	Electrical & Electronics items	Degree of protection(IPX5)	Qualitative Jet Nozzle Dia. 6.3 mm	ISO 20653	Permanent
28.	Electrical & Electronics items	Degree of protection(IPX6)	Qualitative Jet Nozzle Dia. 12.5 mm	ISO 20653	Permanent
29.	Electrical & Electronics items	Degree of protection(IPX7)	Qualitative Water tank with height 1 m	ISO 20653	Permanent
30.	Electrical & Electronics items	Degree of protection(IPX8)	Qualitative Water tank with height 1 m	ISO 20653	Permanent
31.	Electrical & Electronics items	Method 507 Humidity	Qualitative Amb to 60°C, Amb to 95%RH	MIL-STD-810H	Permanent
32.	Electrical & Electronics items	Method 514 Humidity	Qualitative 5 to 3000Hz	MIL-STD-810H	Permanent
33.	Electrical & Electronics items	Method 516 shock	Qualitative upto 200 'g'	MIL-STD-810H	Permanent
			Qualitative	MIL-STD-810H	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
34.	Electrical & Electronics items	Method 501 HIGH TEMPERATURE	Amb to 250°C		
35.	Electrical & Electronics items	Method 503 Temperature Shock	Qualitative -70°C to 150°C	MIL-STD-810H	Permanent
36	Electrical & Electronics items	Method 510 Sand and Dust	Qualitative	MIL-STD-810H	Permanent
37	Electrical & Electronics items	Method 500 Low Pressure	Qualitative 100 kPa to 7 kPa, 20°C to 60 °C	MIL-STD-810H	Permanent
38	Electrical & Electronics items	Method 502 Low Temperature	Qualitative -70°C to 150°C	MIL-STD-810H	Permanent
39	Electrical & Electronics items	TEST NUMBER 3 Altitude	Qualitative 100 kPa to 7 kPa, 20°C to 60 °C	JSS 55555	Permanent
40	Electrical & Electronics items	TEST NUMBER 5 Bump	Qualitative	JSS 55555	Permanent
41	Electrical & Electronics items	TEST NUMBER 10 Damp Heat	Qualitative Amb to 250°C	JSS 55555	Permanent
42	Electrical & Electronics items	TEST NUMBER 11 Drip Proof	Qualitative	JSS 55555	Permanent
43	Electrical & Electronics items	TEST NUMBER 13 Drop	Qualitative	JSS 55555	Permanent
44	Electrical & Electronics items	TEST NUMBER 14 Dust	Qualitative	JSS 55555	Permanent
45	Electrical & Electronics items	TEST NUMBER 17 High Temperature	Qualitative Amb to 250°C	JSS 55555	Permanent
46	Electrical & Electronics items	TEST NUMBER 20 Low Temperature	Qualitative -70°C to 150°C	JSS 55555	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
47	Electrical & Electronics items	TEST NUMBER 22 Rapid Temperature Cycling	Qualitative -70°C to 150°C	JSS 55555	Permanent
48	Electrical & Electronics items	TEST NUMBER 24 Shock or Impact	Qualitative upto 200 'g'	JSS 55555	Permanent
49	Electrical & Electronics items	TEST NUMBER 28 Vibration	Qualitative 0 to 3000Hz	JSS 55555	Permanent
50	Electrical & Electronics items	Shock and Vibration test	Qualitative 0 to 3000Hz	IEC 61373: 2010	Permanent
51	Electronic equipment used in rolling stock	Dry Heat Test	Qualitative Amb to 250°C	Cl. No.12.2.5, IEC 60571	Permanent
52	Electronic equipment used in rolling stock	Vibration, Shock and bump Test	Qualitative 0 to 3000Hz	Cl. No.12.2.12, IEC 60571	Permanent
53	Electronic equipment used in rolling stock	Cold Start Test	Qualitative -70°C to 150°C	Cl. No.12.2.4, IEC 60571	Permanent
54	Electronic equipment used in rolling stock	Damp Heat Test, Cyclic	Qualitative -70°C to 150°C	Cl. No.12.2.6, IEC 60571	Permanent
55	Electronic equipment used in rolling stock	Low Temperature Storage Test	Qualitative -70 to 150°C	Cl. No.12.2.15, IEC 60571	Permanent
56	Railway Applications-Rolling Stock- Electronic Equipment	Dry Heat Test	Qualitative Amb to 250°C	Cl. No.13.4.5, 4.4.2 and 4.4.3, EN 50155	Permanent
57	Railway Applications-Rolling Stock- Electronic Equipment	Low Temperature Storage Test	Qualitative -70°C to 150°C	Cl. No.13.4.6, 4.1, EN 50155	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
58	Railway Applications- Rolling Stock- Electronic Equipment	Low Temperature Test	Qualitative -70°C to 150°C	Cl. No.13.4.4, 4.4.2, EN 50155	Permanent
59	Railway Applications- Rolling Stock- Electronic Equipment	Cyclic Damp Heat Test	Qualitative -70°C to 150°C	Cl. No.13.4.8, 4.4.2 and 4.4.7, EN 50155	Permanent
60	Railway Applications- Rolling Stock- Electronic Equipment	Enclosure Protection Test (IP code)	Qualitative	Cl. No.13.4.10.5, 4.4.7 and 10.9, EN 50155	Permanent
61	Railway Applications- Rolling Stock- Electronic Equipment	Vibration and Shock Test	Qualitative 0 to 3000Hz	Cl. No.13.4.10, 4.4.5, EN 50155	Permanent
62	Railway Applications- Rolling Stock- Electronic Equipment	Rapid Temperature Variation Test	Qualitative -70 to 150°C	Cl. No.13.4.12, 4.4.4, EN 50155	Permanent
63	Electrical & Electronics items	Fire hazard testing (needle flame test)	Qualitative 0 to 1000°C, 0 to 120°C	IEC 60695-11-5	Permanent
64	Electrical & Electronics items	Vibration Test	Qualitative 0 to 3000Hz	Cl.No.4.1, IS 10250	Permanent
65	Electrical & Electronics items	Dry Heat Test	Qualitative Amb to 250°C	Cl.No.4.2, IS 10250	Permanent
66	Electrical & Electronics items	Damp Heat (Cycling Test)	Qualitative -70°C to 150°C	Cl.No.4.3, IS 10250	Permanent
67	Electrical & Electronics items	Cold Test	Qualitative -70°C to 150°C	Cl.No.4.4, IS 10250	Permanent
68	Electrical & Electronics items	Rapid Change of Temperature	Qualitative -70 °C to 150°C	Cl.No.4.5, IS 10250	Permanent
69	Electrical & Electronics items	Dust	Qualitative	Cl.No.4.6, IS 10250	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
70	Electrical & Electronics items	Drop and Topple Test	Qualitative	Cl.No.4.10, IS 10250	Permanent
71	Electrical & Electronics items	Bump Test	Qualitative	Cl.No.4.11, IS 10250	Permanent
72	Electrical & Electronics items	Vibration test (Sinusoidal)	Qualitative 0 to 3000Hz	IEC 60068 (Part 2/Sec 6)	Permanent
73	Electrical & Electronics items	Vibration test (Random)	Qualitative 0 to 3000Hz	IEC 60068 (Part 2/Sec 64)	Permanent
74	Electrical & Electronics items	Dry Heat Test	Qualitative Amb to 250°C	IEC 60068 (Part 2/Sec 2)	Permanent
75	Electrical & Electronics items	Change of Temperature test	Qualitative -70 °C to 150°C	IEC 60068 (Part 2/Sec 14)	Permanent
76	Electrical & Electronics items	Cold Test	Qualitative -70°C to 150°C	IEC 60068 (Part 2/Sec 1)	Permanent
77	Electrical & Electronics items	Shock/Bump test	Qualitative Upto 200g	IEC 60068 (Part 2/Sec 27)	Permanent
78	Electrical & Electronics items	Shock Test	Qualitative Upto 200g	IS 9000 (Part 7/Sec 1)	Permanent
79	Electrical & Electronics items	Free Fall	Qualitative	Cl. No.5.2, IEC 60068 (Part 2/Sec 31)	Permanent
80	Electrical & Electronics items	Drop and Topple Test	Qualitative	Cl. No.7.1, IEC 60068 (Part 2/Sec 31)	Permanent
81	Electrical & Electronics items	Temperature/Humidity cyclic test	Qualitative Amb to 60°C, Amb to 95%RH	IEC 60068 (Part 2/Sec 38)	Permanent
82	Electrical & Electronics items	Damp heat cyclic test	Qualitative -70°C to 150°C	IEC 60068 (Part 2/Sec 30)	Permanent
83	Electrical & Electronics items	Damp heat steady state	Qualitative Amb to 250°C	IEC 60068 (Part 2/Sec 78):	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
84	Electrical & Electronics items	Damp heat steady state	Qualitative Amb to 250°C	IS 9000 (Part 4)	Permanent
85	Electrical & Electronics items	Combined Sequential Cold, Low Air Pressure and Damp Heat	Qualitative 100 kPa to 7 kPa, 20°C to 60 °C	IEC 60068 (Part 2/Sec 39)	Permanent
86	Electrical & Electronics items	Vibration Test	Qualitative 0 to 3000Hz	Cl. No.4.1, ISO 16750 (Part 3)	Permanent
87	Electrical & Electronics items	Mechanical shock	Qualitative Upto 200g	Cl. No.4.2, ISO 16750 (Part 3)	Permanent
88	Electrical & Electronics items	Free Fall	Qualitative	Cl. No.4.3, ISO 16750 (Part 3)	Permanent
89	Electrical & Electronics items	Mechanical vibration and shock	Qualitative 0 to 3000Hz	ISO 2631 (Part 1)	Permanent
90	Electrical & Electronics items	Test Number 1 Altitude	Qualitative 100 kPa to 7 kPa, 20°C to 60 °C	JSS 5855-11	Permanent
91	Electrical & Electronics items	Test Number 3 Bump	Qualitative	JSS 5855-11	Permanent
92	Electrical & Electronics items	Test Number 6 Damp Heat	Qualitative	JSS 5855-11	Permanent
93	Electrical & Electronics items	Test Number 8 Drop	Qualitative	JSS 5855-11	Permanent
94	Electrical & Electronics items	Test Number 9 Dust	Qualitative	JSS 5855-11	Permanent
95	Electrical & Electronics items	Test Number 10 High Temperature	Qualitative Amb to 250°C	JSS 5855-11	Permanent
96	Electrical & Electronics items	Test Number 12 Low Temperature	Qualitative -70°C to 150°C	JSS 5855-11	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
97	Electrical & Electronics items	Test Number 14 Rapid Temperature Cycling (Thermal Shock)	Qualitative  -70°C to 150°C	JSS 5855-11	Permanent
98	Electrical & Electronics items	Test Number 16 Shock Or Impact	Qualitative  Upto 200g	JSS 5855-11	Permanent
99	Electrical & Electronics items	Test Number 20 Vibration	Qualitative  0 to 3000Hz	JSS 5855-11	Permanent
100	Procedure for basic climatic and durability tests	Dry Heat Test	Qualitative  Amb to 250°C	IS 10236 – 1	Permanent
101	Procedure for basic climatic and durability tests	Cold Test	Qualitative  -70°C to 150°C	IS 10236 – 1	Permanent
102	Procedure for basic climatic and durability tests	Damp heat test	Qualitative  Amb to 250°C	IS 10236 – 1	Permanent
103	Procedure for basic climatic and durability tests	Damp heat cyclic test	Qualitative  -70°C to 150°C	IS 10236 – 1	Permanent
104	Procedure for basic climatic and durability tests	Thermal shock test (Rapid change of temperature)	Qualitative  -70°C to 150°C	IS 10236 – 1	Permanent
105	Procedure for basic climatic and durability tests	Low air pressure (altitude) test	Qualitative  100 kPa to 7 kPa, 20 to 60 °C	IS 10236 – 1	Permanent
106	Procedure for basic climatic and durability tests	Bump test	Qualitative	IS 10236 – 1	Permanent
107		Vibration test	Qualitative	IS 10236 – 1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Procedure for basic climatic and durability tests		0 to 3000Hz		
108	Procedure for basic climatic and durability tests	Shock test	Qualitative Upto 200g	IS 10236 – 1	Permanent
109	Procedure for basic climatic and durability tests	Dust test	Qualitative	IS 10236 – 1	Permanent
110	Procedure for basic climatic and durability tests	Drop test	Qualitative	IS 10236 – 1	Permanent
111	Electrical & Electronics items	50 W horizontal and vertical flame test methods	Qualitative	IEC 60695-11-10	Permanent
<b>Discipline: Electronics: Group: Audio Equipment</b>					
1.	Domestic Electronic Appliances & Accessories / Audio Equipment	Marking and Instruction	Qualitative	Cl.5.0, of IS 616 / IEC 60065	Permanent
2.	Domestic Electronic Appliances & Accessories / Audio Equipment	General requirements	Qualitative: 0 sec to 3600 sec	Cl.5.1, of IS 616 / IEC 60065	Permanent
3.	Domestic Electronic Appliances & Accessories / Audio Equipment	Identification and supply ratings	0.1V to 300V	Cl.5.2, of IS 616 / IEC 60065	Permanent
4.	Domestic Electronic Appliances & Accessories / Audio Equipment	Heating under normal operating conditions	1°C to 300°C	Cl.7, of IS 616 / IEC 60065	Permanent
5.	Domestic Electronic Appliances & Accessories / Audio Equipment	Requirements	Qualitative: amb.to 300°C	Cl.7.1.1, of IS 616 / IEC 60065	Permanent
6.	Domestic Electronic Appliances & Accessories / Audio Equipment	Accessible Parts	Qualitative: amb.to 300°C	Cl.7.1.2, of IS 616 / IEC 60065	Permanent



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### Scope of Accreditation for Testing

As per ISO/IEC 17025

**CAB Name:** International Testing and Compliance (OPC) Private Limited

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**Address:** Village Budhena, Sector-86, Near Shiv Mandir, Faridabad - 121002 Haryana.

**Certificate No.:** T-0010

**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
7.	Domestic Electronic Appliances & Accessories / Audio Equipment	Parts, other than windings, providing electrical insulation	Qualitative: amb.to 300°C	Cl.7.1.3, of IS 616 / IEC 60065	Permanent
8.	Domestic Electronic Appliances & Accessories / Audio Equipment	Parts acting as a support or a mechanical barrier	Qualitative: 0.01mm - 200mm	Cl.7.1.4, of IS 616 / IEC 60065	Permanent
9.	Domestic Electronic Appliances & Accessories / Audio Equipment	Heat resistance of insulating material	Qualitative: amb. to 300°C	Cl.7.2, of IS 616 / IEC 60065	Permanent
10.	Domestic Electronic Appliances & Accessories / Audio Equipment	Constructional requirements with regard to protection against electric shock	Qualitative: 1mV/div - 10mV/div 400mV - 1000V 0.01kV - 10kV amb. - 95% RH 0.01mm - 200mm 0.01sec - 3600 sec amb - 250°C	Cl.8, of IS 616 / IEC 60065	Permanent
11.	Domestic Electronic Appliances & Accessories / Audio Equipment	Electric shock hazard under normal operating conditions	Qualitative	Cl.9, of IS 616 / IEC 60065	Permanent
12.	Domestic Electronic Appliances & Accessories / Audio Equipment	Determination of hazardous live parts	0V-60V	Cl.9.1.1.2, of IS 616 / IEC 60065	Permanent
13.	Domestic Electronic Appliances & Accessories / Audio Equipment	Determination of ACCESSIBLE parts	Qualitative: 0.2N - 980N	Cl.9.1.1.3, of IS 616 / IEC 60065	Permanent
14.	Domestic Electronic Appliances & Accessories / Audio Equipment	Shafts of operating knobs, handles, levers and the like	Qualitative: 1mV/div - 10mV/div, 400mV - 1000V, 0.1 uA - 30 mA	Cl.9.1.2, of IS 616 / IEC 60065	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
15.	Domestic Electronic Appliances & Accessories / Audio Equipment	Openings of the enclosure	Qualitative: 0.01mm to 200mm, 0.2N - 980N	Cl.9.1.3, of IS 616 / IEC 60065	Permanent
16.	Domestic Electronic Appliances & Accessories / Audio Equipment	Withdrawal of main plug	Qualitative: 0.2N to 980N 1mV/div - 10mV/div	Cl.9.1.6, of IS 616 / IEC 60065	Permanent
17.	Domestic Electronic Appliances & Accessories / Audio Equipment	Resistance to external forces	Qualitative: 0.2N to 980N	Cl.9.1.7, of IS 616 / IEC 60065	Permanent
18.	Domestic Electronic Appliances & Accessories / Audio Equipment	Insulation requirements	Qualitative	Cl.10, of IS 616 / IEC 60065	Permanent
19.	Domestic Electronic Appliances & Accessories / Audio Equipment	Surge test	0.01 kV to 10 kV	Cl.10.2, of IS 616 / IEC 60065	Permanent
20.	Domestic Electronic Appliances & Accessories / Audio Equipment	Humidity treatment	Qualitative: 0.01 kV to 10 kV, amb. - 95% RH	Cl.10.3, of IS 616 / IEC 60065	Permanent
21.	Domestic Electronic Appliances & Accessories / Audio Equipment	Insulation Resistance and Dielectric strength	0 MΩ to 999 MΩ	Cl.10.4, of IS 616 / IEC 60065	Permanent
22.	Domestic Electronic Appliances & Accessories / Audio Equipment	Fault Conditions	1°C to 300°C	Cl.11, of IS 616 / IEC 60065	Permanent
23.	Domestic Electronic Appliances & Accessories / Audio Equipment	Electric shock hazard	Qualitative: 400mV - 1000V, 0.1 uA to 30 mA	Cl.11.1, of IS 616 / IEC 60065	Permanent
24.	Domestic Electronic Appliances & Accessories / Audio Equipment	Measurement of temperature rises	Qualitative: 0.1V to 300 V, amb. to 300°C, 0.1 V to 600 V	Cl.11.2.2, of IS 616 / IEC 60065	Permanent
25.	Domestic Electronic Appliances & Accessories / Audio Equipment	Parts, other than windings and PRINTED BOARDS, providing	Qualitative: 0.1V to 300 V, amb. - 300°C 0.1V to 600 V	Cl.11.2.4, of IS 616 / IEC 60065	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		electrical insulation			
26.	Domestic Electronic Appliances & Accessories / Audio Equipment	Parts acting as a support or a mechanical barrier	Qualitative: 0.1V - 300 V, amb. - 300°C, 0.1V - 600 V	Cl.11.2.5, of IS 616 / IEC 60065	Permanent
27.	Domestic Electronic Appliances & Accessories / Audio Equipment	Windings	Qualitative: 0.1V - 300 V, amb. - 300°C, 0.1V - 600 V	Cl.11.2.6, of IS 616 / IEC 60065	Permanent
28.	Domestic Electronic Appliances & Accessories / Audio Equipment	PRINTED BOARDS	Qualitative: 0.1V - 300 V, amb. - 300°C, 0.1V to 600 V	Cl.11.2.7, of IS 616 / IEC 60065	Permanent
29.	Domestic Electronic Appliances & Accessories / Audio Equipment	Parts not subject to a limit under 11.2.2 to 11.2.7 inclusive	Qualitative: 0.1V to 300 V, amb. - 300°C, 0.1V - 600 V	Cl.11.2.8, of IS 616 / IEC 60065	Permanent
30.	Domestic Electronic Appliances & Accessories / Audio Equipment	Mechanical strength	0.2N to 999N	Cl.12.0, of IS 616 / IEC 60065	Permanent
31.	Domestic Electronic Appliances & Accessories / Audio Equipment	Bump test	Qualitative: 1mm to 1m	Cl.12.1.2, of IS 616 / IEC 60065	Permanent
32.	Domestic Electronic Appliances & Accessories / Audio Equipment	Vibration test	Qualitative: 0 to 3000Hz	Cl.12.1.3, of IS 616 / IEC 60065	Permanent
33.	Domestic Electronic Appliances & Accessories / Audio Equipment	Impact test	Qualitative: 0.01 kV to 10 kV, 1mm to 1m	Cl.12.1.4, of IS 616 / IEC 60065	Permanent
34.	Domestic Electronic Appliances & Accessories / Audio Equipment	Drop test	Qualitative: 1mm to 1m	Cl.12.1.5, of IS 616 / IEC 60065	Permanent
35.	Domestic Electronic Appliances & Accessories / Audio Equipment	Stress relief test	Qualitative: Amb. to 250°C	Cl.12.1.6, of IS 616 / IEC 60065	Permanent
36.	Domestic Electronic Appliances & Accessories / Audio Equipment	Fixing of actuating Element	Qualitative: 0.04 kg to 300 kg, 0.25 Nm to 5Nm	Cl.12.2, of IS 616 / IEC 60065	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
37.	Domestic Electronic Appliances & Accessories / Audio Equipment	REMOTE CONTROL devices held in hand	Qualitative: 1 to 999999 count, 0.04 kg – 300 kg	Cl.12.3, of IS 616 / IEC 60065	Permanent
38.	Domestic Electronic Appliances & Accessories / Audio Equipment	Drawers	Qualitative: 0.05N - 196.10 N, 0 sec to 3600 sec	Cl.12.4, of IS 616 / IEC 60065	Permanent
39.	Domestic Electronic Appliances & Accessories / Audio Equipment	Antenna coaxial sockets mounted on the apparatus	Qualitative: 0.25Nm to 5Nm, 0.05N to 196.10 N	Cl.12.5, of IS 616 / IEC 60065	Permanent
40.	Domestic Electronic Appliances & Accessories / Audio Equipment	Physical securement	Qualitative: 0.25Nm - 5Nm, 0.05N to 196.10 N	Cl.12.6.2, of IS 616 / IEC 60065	Permanent
41.	Domestic Electronic Appliances & Accessories / Audio Equipment	Stress relief test	Qualitative: Amb. - 250°C	Cl.12.7.3.2, of IS 616 / IEC 60065	Permanent
42.	Domestic Electronic Appliances & Accessories / Audio Equipment	Battery replacement test	Qualitative: 0.25Nm - 5Nm	Cl.12.7.3.3, of IS 616 / IEC 60065	Permanent
43.	Domestic Electronic Appliances & Accessories / Audio Equipment	Drop test	Qualitative: 1mm to 1m	Cl.12.7.3.4, of IS 616 / IEC 60065	Permanent
44.	Domestic Electronic Appliances & Accessories / Audio Equipment	Impact test	Qualitative: 1mm to 1m	Cl.12.7.3.5, of IS 616 / IEC 60065	Permanent
45.	Domestic Electronic Appliances & Accessories / Audio Equipment	Crush test	Qualitative	Cl.12.7.3.6, of IS 616 / IEC 60065	Permanent
46.	Domestic Electronic Appliances & Accessories / Audio Equipment	Compliance	Qualitative: 0 sec to 3600 sec, 0.05N to 196.10 N	Cl.12..7.4, of IS 616 / IEC 60065	Permanent
47.	Domestic Electronic Appliances & Accessories / Audio Equipment	Clearances and Creepage Distances	Qualitative	Cl.13.0, of IS 616 / IEC 60065	Permanent
48.	Domestic Electronic Appliances & Accessories / Audio Equipment	Determination of working voltage	0.01mm to 200mm	Cl.13.2, of IS 616 / IEC 60065	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
49.	Domestic Electronic Appliances & Accessories / Audio Equipment	Clearances	Qualitative: 1mv/div - 10mv/div, 400mV-1000V	Cl.13.3, of IS 616 / IEC 60065	Permanent
50.	Domestic Electronic Appliances & Accessories / Audio Equipment	General	Qualitative	Cl.13.3.1, of IS 616 / IEC 60065	Permanent
51.	Domestic Electronic Appliances & Accessories / Audio Equipment	CLEARANCES in circuits CONDUCTIVELY CONNECTED TO THE MAINS	Qualitative: 1mv/div - 10mv/div, 0.01mm - 200mm, 400mV-1000V	Cl.13.3.2, of IS 616 / IEC 60065	Permanent
52.	Domestic Electronic Appliances & Accessories / Audio Equipment	CLEARANCES in circuits not CONDUCTIVELY CONNECTED TO THE MAINS	Qualitative: 1mv/div - 10mv/div, 0.01mm - 200mm, 400mV-1000V	Cl.13.3.3, of IS 616 / IEC 60065	Permanent
53.	Domestic Electronic Appliances & Accessories / Audio Equipment	Measurement of transient voltages	Qualitative: 1mv/div - 10mv/div, 0.01mm - 200mm, 400mV-1000V	Cl.13.3.4, of IS 616 / IEC 60065	Permanent
54.	Domestic Electronic Appliances & Accessories / Audio Equipment	Creepage distances	Qualitative: 1V to 600 V 0.01 A to 5A, 0.01 sec to 99.99 sec	Cl.13.4, of IS 616 / IEC 60065	Permanent
55.	Domestic Electronic Appliances & Accessories / Audio Equipment	Jointed insulation	Qualitative: 0.01mm - 200mm, Amb. to 250°C	Cl.13.6, of IS 616 / IEC 60065	Permanent
56.	Domestic Electronic Appliances & Accessories / Audio Equipment	Components	Qualitative	Cl.14, of IS 616 / IEC 60065	Permanent
57.	Domestic Electronic Appliances & Accessories / Audio Equipment	Terminals	0.1V to 20V	Cl.15.0, of IS 616 / IEC 60065	Permanent
58.	Domestic Electronic Appliances & Accessories / Audio Equipment	Provision for protective earthing	Qualitative: 0.1V to 20 V 400mV to 1000V, 0 sec to 3600 sec	Cl.15.2, of IS 616 / IEC 60065	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
59.	Domestic Electronic Appliances & Accessories / Audio Equipment	Terminals for external flexible cords and for permanent connection to mains supply	Qualitative: 0.01mm - 200mm, 0.05N to 196.10 N	Cl.15.3, of IS 616 / IEC 60065	Permanent
60.	Domestic Electronic Appliances & Accessories / Audio Equipment	Device Forming a part of mains Plug	0.01mm - 200mm	Cl.15.4, of IS 616 / IEC 60065	Permanent
61.	Domestic Electronic Appliances & Accessories / Audio Equipment	External flexible cords	Qualitative	Cl.16.0, of IS 616 / IEC 60065	Permanent
62.	Domestic Electronic Appliances & Accessories / Audio Equipment	External flexible cords	Qualitative: 0.01 kV – 10 kV, 0.001mm-25mm 0.01mm - 200mm	Cl.16.2, of IS 616 / IEC 60065	Permanent
63.	Domestic Electronic Appliances & Accessories / Audio Equipment	External flexible cords	Qualitative	Cl.16.5, of IS 616 / IEC 60065	Permanent
64.	Domestic Electronic Appliances & Accessories / Audio Equipment	Electrical connections and mechanical fixings	1mm to 300mm	Cl.17.0, of IS 616 / IEC 60065	Permanent
65.	Domestic Electronic Appliances & Accessories / Audio Equipment	Electrical connections and mechanical fixings	Qualitative: 0.1 Nm to 1.5 Nm	Cl.17.1, of IS 616 / IEC 60065	Permanent
66.	Domestic Electronic Appliances & Accessories / Audio Equipment	Stability and mechanical hazards	Qualitative: 1° - 60°	Cl.19.0, of IS 616 / IEC 60065	Permanent
67.	Domestic Electronic Appliances & Accessories / Audio Equipment	Stability Requirement	Qualitative: 0.04 kg to 300kg	Cl.19.1, of IS 616 / IEC 60065	Permanent
68.	Domestic Electronic Appliances & Accessories / Audio Equipment	Test at 10° to the horizontal	Qualitative: 0.2N to 980N	Cl.19.2, of IS 616 / IEC 60065	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
69.	Domestic Electronic Appliances & Accessories / Audio Equipment	Vertical force test	Qualitative	Cl.19.3, of IS 616 / IEC 60065	Permanent
70.	Domestic Electronic Appliances & Accessories / Audio Equipment	Horizontal force test	Qualitative: 0.05N - 196.10 N	Cl.19.4, of IS 616 / IEC 60065	Permanent
72.	Domestic Electronic Appliances & Accessories / Audio Equipment	Fragmentation test	Qualitative	Cl.19.6.2, of IS 616 / IEC 60065	Permanent
73.	Domestic Electronic Appliances & Accessories / Audio Equipment	Test Method	Qualitative: 0.1 Nm to 1.5 Nm	Cl.19.7.2, of IS 616 / IEC 60065	Permanent
74.	Domestic Electronic Appliances & Accessories / Audio Equipment	Resistance to fire	Qualitative	Cl.20.0, of IS 616 / IEC 60065	Permanent
75.	Domestic Electronic Appliances & Accessories / Audio Equipment	Electrical component	Qualitative: 0 - 1000°C 0 - 120 sec, 0.01mm - 200mm, 1mm - 300mm 0.1A - 150A, 1°C - 1000°C, 0 sec - 99.9sec	Cl.20.2.2, of IS 616 / IEC 60065	Permanent
76.	Domestic Electronic Appliances & Accessories / Audio Equipment	Additional requirements for apparatus with protection against splashing water	Qualitative: 0 sec - 3600 sec	Annex-A, of IS 616 / IEC 60065	Permanent
77.	Domestic Electronic Appliances & Accessories / Audio Equipment	Apparatus to be connected to the telecommunication networks	Qualitative	Annex-B, of IS 616 / IEC 60065	Permanent
78.	Domestic Electronic Appliances & Accessories / Audio Equipment	Band -pass filter foe wide -band	Qualitative	Annex-C, of IS 616 / IEC 60065	Permanent
79.	Domestic Electronic Appliances & Accessories / Audio Equipment	Measuring networks for Touch Currents	Qualitative	Annex-D, of IS 616 / IEC 60065	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
80.	Domestic Electronic Appliances & Accessories / Audio Equipment	Measurement of clearance and creepage distances	Qualitative: 0.01mm - 200mm	Annex-E, of IS 616 / IEC 60065	Permanent
81.	Domestic Electronic Appliances & Accessories / Audio Equipment	Table of electrochemical potentials	Qualitative	Annex-F, of IS 616 / IEC 60065	Permanent
82.	Domestic Electronic Appliances & Accessories / Audio Equipment	flammability test methods	Qualitative: 0 - 1000°C 0 - 120 sec, 0.01mm - 200mm	Annex-G, of IS 616 / IEC 60065	Permanent
83.	Domestic Electronic Appliances & Accessories / Audio Equipment	Insulating windings wires for use without interleaved Insulation	Qualitative: 0.01KV - 10KV	Annex-H, of IS 616 / IEC 60065	Permanent
84.	Domestic Electronic Appliances & Accessories / Audio Equipment	Alternative method for determining minimum clearance	Qualitative: 1mV/div - 10mV/div, 400mV - 1000V, 0.01mm - 200mm	Annex-J, of IS 616 / IEC 60065	Permanent
85.	Domestic Electronic Appliances & Accessories / Audio Equipment	Impulse test generators	Qualitative	Annex-K, of IS 616 / IEC 60065	Permanent
86.	Domestic Electronic Appliances & Accessories / Audio Equipment	Additional requirements for electronic flash apparatus for photographic purpose	Qualitative	Annex-L, of IS 616 / IEC 60065	Permanent

#### Discipline: Electrical : Group: Power System and Stabilizers

1.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Power interface	0.1V to 300V	Cl.4.6, IS 16242 /IEC 62040-1	Permanent
2.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	High leakage current	0.1uA to 30mA	Cl.4.7.13, IS 16242 /IEC 62040-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
3.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Marking and instructions	Qualitative: 0.01 sec - 3600 sec/ LC:0.01sec	Cl.4.7.16, IS 16242 /IEC 62040-1	Permanent
4.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Battery	Qualitative: 400mV-1000V / LC: As per range	Cl.4.7.20, IS 16242 /IEC 62040-1	Permanent
5.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Protection for UPS intended to be used in operator access area	Qualitative: 400mV-1000V / LC: As per range	Cl.5.1.1, IS 16242 /IEC 62040-1	Permanent
6.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Back feed protection	Qualitative: 0V - 300 V / LC: As per instrument	Cl.5.1.4, IS 16242 /IEC 62040-1	Permanent
7.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	SELV	Qualitative: 400mV-1000V / LC: As per range	Cl.5.2.1, IS 16242 /IEC 62040-1	Permanent
8.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Protective earthing	Qualitative: 0.01kV – 10kV/ LC:0.01kV, 0.1 uA - 30 mA/ LC: 0.1 uA, 0.05N - 196.10 N / LC: 0.05 uA	Cl.5.3.2, IS 16242 /IEC 62040-1	Permanent
9.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Protection of personal – safety interlock	Qualitative: 0.01kV – 10kV/ LC:0.01KV, 0.01 sec - 3600 sec/ LC:0.01sec	Cl.5.6, IS 16242 /IEC 62040-1	Permanent
10.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Clearance, creepage distances through insulation	Qualitative: 0.01mm - 200mm/ LC:0.01mm, 1mv/div - 10mv/div/ LC: As per range, 400mV-1000V / LC: As per range, 0.01kV – 10kV/ LC:0.01kV, 0.001mm - 25mm / LC: 0.001mm	Cl.5.7, IS 16242 /IEC 62040-1	Permanent
11.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Connection to power	Qualitative: 0.001mm - 25mm / LC: 0.001mm, 0.01mm - 200mm/ LC:0.01mm	Cl.6.2., IS 16242 /IEC 62040-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
12.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Wiring terminal for external power conductor	Qualitative: 0.001mm - 25mm / LC: 0.001mm, 0.01mm - 200mm/ LC:0.01mm	Cl.6.3., IS 16242 /IEC 62040-1	Permanent
13.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Stability	Qualitative: 0.05° - 360° / LC: 0.05°	Cl.7.2, IS 16242 /IEC 62040-1	Permanent
14.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Mechanical Strength	Qualitative: Amb. To 250°C / 0.1°C, 0.05° - 360° / LC: 0.05°, 0 m -1 m / LC: 1mm	Cl.7.3, IS 16242 /IEC 62040-1	Permanent
15.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Constructions details	Qualitative: 300°C / LC:1°C	Cl.7.4, IS 16242 /IEC 62040-1	Permanent
16.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Resistance to fire	Qualitative: 0.1A - 150A/ LC:0.1A, 1°C - 1000°C / LC:1°C, 0 Sec - 99.9sec / LC:0.1Sec	Cl.7.5, IS 16242 /IEC 62040-1	Permanent
17.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Battery	Qualitative: 0.01kV – 10kV/ LC:0.01kV	Cl.7.6, IS 16242 /IEC 62040-1	Permanent
18.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Temperature Rise	1°C to 300°C	Cl.7.7, IS 16242 /IEC 62040-1	Permanent
19.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	General provision for Earth Leakage	Qualitative: 0.1 uA - 30 mA/ LC: 0.1 uA	Cl.8.1., IS 16242 /IEC 62040-1	Permanent
20.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Electric Strength	Qualitative: 0.01kV – 10kV/ LC:0.01kV	Cl.8.2, IS 16242 /IEC 62040-1	Permanent
21.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Abnormal operating and fault condition	Qualitative: 400mV- 1000V	Cl.8.3, IS 16242 /IEC 62040-1	Permanent
22.	Power System and Stabilizers-Uninterruptible Power Systems (UPS)	Connecting to telecommunication network	Qualitative: 0.2kV – 10kV/ C:0.01kV, 0.2kV - 8kV/ LC:0.01kV, 0.01kV – 10kV/ LC:0.01kV	Cl.9, IS 16242 /IEC 62040-1	Permanent



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**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
<b>Discipline: Electrical : Group: Lamps, Luminaires and accessories</b>					
1.	LED SELF-BALLASTED LED LAMPS FOR GENERAL LIGHTING SERVICES	Marking	Qualitative	Cl. 5, IS 16102-1 A1+A2+A3	Permanent
2.	LED SELF-BALLASTED LED LAMPS FOR GENERAL LIGHTING SERVICES	Interchangeability	Qualitative	Cl. 6, IS 16102-1 A1+A2+A3	Permanent
3.	LED SELF-BALLASTED LED LAMPS FOR GENERAL LIGHTING SERVICES	Protection against accidental contact with live parts	Qualitative: 0.01 to 100V	Cl. 7, IS 16102-1 A1+A2+A3	Permanent
4.	LED SELF-BALLASTED LED LAMPS FOR GENERAL LIGHTING SERVICES	Insulation Resistance and electric strength after humidity treatment	Qualitative: Amb to 60°C, Amb to 96%RH, 0 to 999 Mohm	Cl. 8, IS 16102-1 A1+A2+A3	Permanent
5.	LED SELF-BALLASTED LED LAMPS FOR GENERAL LIGHTING SERVICES	Mechanical Strength	Qualitative: 0.5 to 4Nm	Cl. 9, IS 16102-1 A1+A2+A3	Permanent
6.	LED SELF-BALLASTED LED LAMPS FOR GENERAL LIGHTING SERVICES	Cap Temperature Rise	Qualitative: Amb to 300°C	Cl. 10, IS 16102-1 A1+A2+A3	Permanent
7.	LED SELF-BALLASTED LED LAMPS FOR GENERAL LIGHTING SERVICES	Resistance to heat	Qualitative: 0.01 to 200mm	Cl. 11, IS 16102-1 A1+A2+A3	Permanent
8.	LED SELF-BALLASTED LED LAMPS FOR GENERAL LIGHTING SERVICES	Resistance to flame and Ignition	Qualitative	Cl. 12, IS 16102-1 A1+A2+A3	Permanent
9.	LED SELF-BALLASTED LED LAMPS FOR	Fault Conditions	Qualitative	Cl. 13, IS 16102-1 A1+A2+A3	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	GENERAL LIGHTING SERVICES				
10.	LED SELF-BALLASTED LED LAMPS FOR GENERAL LIGHTING SERVICES	Creepage distances and clearances	0.01 to 200mm	Cl. 14, IS 16102-1 A1+A2+A3	Permanent
11.	LED SELF-BALLASTED LED LAMPS FOR GENERAL LIGHTING SERVICES	Selection of lamps for tests (Sampling)	Qualitative	Cl. 15, IS 16102-1 A1+A2+A3	Permanent
12.	LED SELF-BALLASTED LED LAMPS FOR GENERAL LIGHTING SERVICES	Conditions of compliance	Qualitative	Cl. 16, IS 16102-1 A1+A2+A3	Permanent
13.	SAFETY OF LAMP CONTROLGEAR	Classification	Qualitative	Cl. 6, IS 15885-1 A1	Permanent
14.	SAFETY OF LAMP CONTROLGEAR	Marking	Qualitative	Cl. 7, IS 15885 A1	Permanent
15.	SAFETY OF LAMP CONTROLGEAR	Terminals	Qualitative: 0.01 to 200mm	Cl. 8, IS 15885 A1	Permanent
16.	SAFETY OF LAMP CONTROLGEAR	Terminals	Qualitative: 5 to 35Nm	Cl. 9, IS 15885 A1	Permanent
17.	SAFETY OF LAMP CONTROLGEAR	Provisions for Protective earthing	0.1V to 20V	Cl. 10, IS 15885 A1	Permanent
18.	SAFETY OF LAMP CONTROLGEAR	Protection against accidental contact with live parts	Qualitative: 0.01 to 100V	Cl. 11, IS 15885 A1	Permanent
19.	SAFETY OF LAMP CONTROLGEAR	Moisture Resistance and Insulation	Qualitative: Amb to 60°C, Amb to 96%RH, 0 to 999 Mohm	Cl. 12, IS 15885 A1	Permanent
			Qualitative:	Cl. 13, IS 15885-1 A1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
20.	SAFETY OF LAMP CONTROLGEAR	Thermal endurance test for windings of ballasts	0.01kV to 10kV		
21.	SAFETY OF LAMP CONTROLGEAR	Fault Conditions	Qualitative	Cl. 14, IS 15885-1 A1	Permanent
22.	SAFETY OF LAMP CONTROLGEAR	Construction	Qualitative	Cl. 15, IS 15885-1 A1	Permanent
23.	SAFETY OF LAMP CONTROLGEAR	Creepage distances and clearances	0.01mm to 200mm	Cl. 16, IS 15885-1 A1	Permanent
24.	SAFETY OF LAMP CONTROLGEAR	Screws, current-carrying parts and connections	0.01mm to 200mm	Cl. 17, IS 15885-1 A1	Permanent
25.	SAFETY OF LAMP CONTROLGEAR	Resistance to heat, fire and tracking	Qualitative: 0.01mm to 10mm	Cl. 18, IS 15885-1 A1	Permanent
26.	SAFETY OF LAMP CONTROLGEAR	Resistance to corrosion	Qualitative	Cl. 19, IS 15885-1 A1	Permanent
27.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Classification	Qualitative	Cl. 6, IS 15885-2-13 , A1:	Permanent
28.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Marking	Qualitative	Cl. 7, IS 15885-2-13 , A1:	Permanent
29.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Protection against accidental contact with live parts	Qualitative: 0.01V to 100V	Cl. 8, IS 15885-2-13 , A1:	Permanent
30.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic	Terminals	0.01mm to 200mm	Cl. 9, IS 15885-2-13 , A1:	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Controlgear for LED Modules				
31.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Terminals	Qualitative: 5Nm to 35Nm	Cl. 9, IS 15885-2-13 , A1:	Permanent
32.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Provisions for Protective earthing	0.1V to 20V	Cl. 10, IS 15885-2-13 , A1:	Permanent
33.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Moisture Resistance and Insulation	Qualitative: Amb to 60°C, Amb to 96%RH, 0 to 999 Mohm	Cl. 11, IS 15885-2-13 , A1:	Permanent
34.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Electric Strength	Qualitative: 0.01 to 10kV	Cl. 12, IS 15885-2-13 , A1:	Permanent
35.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Thermal endurance test for windings of ballasts	Qualitative	Cl. 13, IS 15885-2-13 , A1:	Permanent
36.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Fault Conditions	Qualitative	Cl. 14, IS 15885-2-13 , A1:	Permanent
37.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Transformer Heating	Qualitative: 1°C to 300°C	Cl. 15, IS 15885-2-13 , A1:	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
38.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Construction	Qualitative	Cl. 16, IS 15885-2-13 , A1:	Permanent
39.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Creepage distances and clearances	0.01mm to 200mm	Cl. 17, IS 15885-2-13 , A1:	Permanent
40.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Screws, current-carrying parts and connections	0.01mm to 200mm	Cl. 18, IS 15885-2-13 , A1:	Permanent
41.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Screws, current-carrying parts and connections	Qualitative: 5Nm to 35Nm	Cl. 18, IS 15885-2-13 , A1:	Permanent
42.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Resistance to heat, fire and tracking	Qualitative: 0.01mm to 10mm	Cl. 19, IS 15885-2-13 , A1:	Permanent
43.	SAFETY OF LAMP CONTROLGEAR D.C. or A.C. Supplied Electronic Controlgear for LED Modules	Resistance to corrosion	Qualitative	Cl. 20, IS 15885-2-13 , A1:	Permanent
44.	LED Modules for General Lighting	Classification	Qualitative	Cl. 6, IS 16103-1 , A1	Permanent
45.	LED Modules for General Lighting	Marking	Qualitative	Cl. 7, IS 16103-1 , A1	Permanent
46.	LED Modules for General Lighting	Terminals	Qualitative: 0.01 to 200mm	Cl. 8, IS 16103-1 , A1	Permanent
		Terminals	Qualitative:	Cl. 8, IS 16103-1 , A1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
47.	LED Modules for General Lighting		5 Nm to 35 Nm		
48.	LED Modules for General Lighting	Provisions for Protective earthing	0.1V to 20V	Cl. 9, IS 16103-1 , A1	Permanent
49.	LED Modules for General Lighting	Protection against accidental contact with live parts	Qualitative: 0.01V to 100V	Cl. 10, IS 16103-1 , A1	Permanent
50.	LED Modules for General Lighting	Moisture Resistance and Insulation	Qualitative: Amb to 60°C, Amb to 96%RH, 0 to 999 Mohm	Cl. 11, IS 16103-1 , A1	Permanent
51.	LED Modules for General Lighting	Electric Strength	Qualitative: 0.01 to 10kV	Cl. 12, IS 16103-1 , A1	Permanent
52.	LED Modules for General Lighting	Fault Conditions	Qualitative	Cl. 13, IS 16103-1 , A1	Permanent
53.	LED Modules for General Lighting	Conformity testing during manufacture	Qualitative	Cl. 14, IS 16103-1 , A1	Permanent
54.	LED Modules for General Lighting	Construction	Qualitative	Cl. 15, IS 16103-1 , A1	Permanent
55.	LED Modules for General Lighting	Creepage distances and clearances	0.01mm to 200mm	Cl. 16, IS 16103-1 , A1	Permanent
56.	LED Modules for General Lighting	Screws, current-carrying parts and connections	0.01mm to 200mm	Cl. 17, IS 16103-1 , A1	Permanent
57.	LED Modules for General Lighting	Screws, current-carrying parts and connections	Qualitative: 0.1Nm to 5Nm	Cl. 17, IS 16103-1 , A1	Permanent
58.	LED Modules for General Lighting	Resistance to heat, fire and tracking	Qualitative: 0.01mm to 10mm	Cl. 18, IS 16103-1 , A1	Permanent
59.	LED Modules for General Lighting	Resistance to corrosion	Qualitative	Cl. 19, IS 16103-1 , A1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
60.	Luminaires For General Requirement and Tests	Classification of Luminaries	Qualitative	Section-2, IS 10322-1, A1	Permanent
61.	Luminaires For General Requirement and Tests	Marking	Qualitative	Section-3, IS 10322-1, A1	Permanent
62.	Luminaires For General Requirement and Tests	Construction	Qualitative	Section-4, IS 10322-1, A1	Permanent
63.	Luminaires For General Requirement and Tests	External and Internal Wiring	Qualitative: 0.01mm to 200mm	Section-5, IS 10322-1, A1	Permanent
64.	Luminaires For General Requirement and Tests	Provision for Earthing	0.1V to20V	Section-7, IS 10322-1, A1	Permanent
65.	Luminaires For General Requirement and Tests	Protection against electric shock	Qualitative: 0.01 V to 100V	Section-8, IS 10322-1, A1	Permanent
66.	Luminaires For General Requirement and Tests	Resistance to dust, solid objects and moisture	Qualitative	Section-9, IS 10322-1, A1	Permanent
67.	Luminaires For General Requirement and Tests	Insulation Resistance and electric strength	Qualitative: Amb to 60°C, Amb to 96%RH, 0 to 999 Mohm	Section-10, IS 10322-1, A1	Permanent
68.	Luminaires For General Requirement and Tests	Creepage distances and clearances	0.01mm to 200mm	Section-11, IS 10322-1, A1	Permanent
69.	Luminaires For General Requirement and Tests	Endurance test and thermal test	Qualitative:	Section-12, IS 10322-1, A1	Permanent
70.	Luminaires For General Requirement and Tests	Resistance to heat, fire and tracking	Qualitative: 0.01 to 10mm	Section-13, IS 10322-1, A1	Permanent
71.	Luminaires For General Requirement and Tests	Screw Terminals	Qualitative: 0.1Nm to 5Nm	Section-14, IS 10322-1, A1	Permanent
72.	Luminaires For General Requirement and Tests	Screwless terminals and electrical connections	Qualitative: 5 Nm to 35Nm	Section-15, IS 10322-1, A1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
73.	Fixed General Purpose Luminaires	Marking	Qualitative	Cl. 6, IS 10322-5-1	Permanent
74.	Fixed General Purpose Luminaires	Construction	Qualitative	Cl. 7, IS 10322-5-1	Permanent
75.	Fixed General Purpose Luminaires	Creepage distances and clearances	0.01mm to 200mm	Cl. 8, IS 10322-5-1	Permanent
76.	Fixed General Purpose Luminaires	Provision for Earthing	0.1V to 20V	Cl. 9, IS 10322-5-1	Permanent
77.	Fixed General Purpose Luminaires	Terminals	Qualitative: 0.1 Nm to 5Nm	Cl. 10, IS 10322-5-1	Permanent
78.	Fixed General Purpose Luminaires	External and Internal Wiring	Qualitative: 0.01mm to 200mm	Cl. 11, IS 10322-5-1	Permanent
79.	Fixed General Purpose Luminaires	Protection against electric shock	Qualitative: 0.01 V to 100V	Cl. 12, IS 10322-5-1	Permanent
80.	Fixed General Purpose Luminaires	Endurance test and thermal test	Qualitative: 10°C to 70°C	Cl. 13, IS 10322-5-1	Permanent
81.	Fixed General Purpose Luminaires	Resistance to dust, solid objects and moisture	Qualitative	Cl. 14, IS 10322-5-1	Permanent
82.	Fixed General Purpose Luminaires	Insulation Resistance and electric strength	Qualitative: Amb to 60°C, Amb to 96%RH, 0 to 999 Mohm	Cl. 15, IS 10322-5-1	Permanent
83.	Fixed General Purpose Luminaires	Resistance to heat, fire and tracking	Qualitative: 0.01 mm to 10mm	Cl. 16, IS 10322-5-1	Permanent

**Discipline: Electrical: Group: Cells and Batteries**



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
1.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	General safety Considerations	Qualitative	CI.5.0, 5.1, IS 16046-1/ IEC 62133-1	Permanent
2.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Insulation & wiring	Qualitative: 0 to 999 MΩ	CI.5.2, IS 16046-1/ IEC 62133-1	Permanent
3.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Venting	Qualitative	CI.5.3, IS 16046-1/ IEC 62133-1	Permanent
4.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in	Temperature, voltage and current measurement	Qualitative	CI.5.4, IS 16046-1/ IEC 62133-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	portable applications (Nickel Systems)				
5.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Specific requirements and tests	Qualitative	CI.7.0, IS 16046-1/ IEC 62133-1	Permanent
6.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Charging procedure for testing purposes	Qualitative: 3V to 480V, 0.6 to 480A	CI.7.1, IS 16046-1/ IEC 62133-1	Permanent
7.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Charging procedure for testing purposes	Qualitative: Amb to 250°C, -40°C to 80 °C	CI.7.1, IS 16046-1/ IEC 62133-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
8.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Continuous Low Rate Charge (Cells)	Qualitative: 1.5V to 80V, 0.03A to 48A	Cl.7.2.1, IS 16046-1/ IEC 62133-1	Permanent
9.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Vibration	Qualitative: 5Hz to 3000Hz	Cl.7.2.2, IS 16046-1/ IEC 62133-1	Permanent
10.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Case Stress at high Ambient Temperature (Batteries)	Qualitative: 0°C to 250°C, 0 to 3600 Sec	Cl.7.2.3, IS 16046-1/ IEC 62133-1	Permanent
11.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in	Temperature cycling	Qualitative: -40°C to 80 °C	Cl.7.2.4, IS 16046-1/ IEC 62133-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	portable applications (Nickel Systems)				
12.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Reasonably foreseeable misuse	Qualitative	Cl.7.3, IS 16046-1/ IEC 62133-1	Permanent
13.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Incorrect Installation (Cell)	Qualitative: 0.1V to 65 V, 0 to 30A	Cl.7.3.1, IS 16046-1/ IEC 62133-1	Permanent
14.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	External short circuit	0°C to 200°C	Cl.7.3.2, IS 16046-1/ IEC 62133-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
15.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	External short circuit	Qualitative: 80mΩ,  0 to 100V	Cl.7.3.2, IS 16046-1/ IEC 62133-1	Permanent
16.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Free fall	Qualitative: 0 to 300 mm	Cl.7.3.3, IS 16046-1/ IEC 62133-1	Permanent
17.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Mechanical shock(Crash hazard)	Qualitative: up to 200 'g'	Cl.7.3.4, IS 16046-1/ IEC 62133-1	Permanent
18.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in	Thermal abuse (Cell)	Qualitative: -70 to 150 °C	Cl.7.3.5, IS 16046-1/ IEC 62133-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	portable applications (Nickel Systems)				
19.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Crushing of cells	Qualitative: 0 to 20 kN, 0 V to 100 V	Cl.7.3.6, IS 16046-1/ IEC 62133-1	Permanent
20.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Low pressure (Cell)	Qualitative: 100 kPa to 7 kPa, 20°C to 60 °C	Cl.7.3.7, IS 16046-1/ IEC 62133-1	Permanent
21.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Overcharge	Qualitative: 3V to 480 V, 0.6A to 480A	Cl.7.3.8, IS 16046-1/ IEC 62133-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
22.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Overcharge	Amb to 250°C	Cl.7.3.8, IS 16046-1/ IEC 62133-1	Permanent
23.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Forced discharge(Cell)	Qualitative: 1.5 V to 24V, 0.375A to 1200 A	Cl.7.3.9, IS 16046-1/ IEC 62133-1	Permanent
24.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Information for safety	Qualitative	Cl.8.0, 8.1, IS 16046-1/ IEC 62133-1	Permanent
25.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in	PROVIDING INFORMATION ABOUT INGESTION HAZARDS	Qualitative	Cl.8.2, IS 16046-1/ IEC 62133-	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	portable applications (Nickel Systems)				
26.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Marking	Qualitative	CI.9.0, IS 16046-1/ IEC 62133-1	Permanent
27.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Cell marking	Qualitative	CI.9.1, IS 16046-1/ IEC 62133-1	Permanent
28.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Battery marking	Qualitative	CI.9.2, IS 16046-1/ IEC 62133-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
29.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Packaging	Qualitative	Cl.10.0, IS 16046-1/ IEC 62133-1	
30.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	General safety Considerations	Qualitative	Cl.5.0, 5.1, IS 16046-2/ IEC 62133-2	Permanent
31.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Insulation & wiring	Qualitative: 0 to 999 MΩ	Cl.5.2, IS 16046-2/ IEC 62133-2	Permanent
32.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in	Venting	Qualitative	Cl.5.3, IS 16046-2/ IEC 62133-2	Permanent



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	portable applications (Lithium Systems)				
33.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Temperature, voltage and current measurement	Qualitative	CI.5.4, IS 16046-2/ IEC 62133-2	Permanent
34.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Terminal contacts	Qualitative	CI.5.5, IS 16046-2/ IEC 62133-2	Permanent
35.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Assembly of cells in to batteries	Qualitative	CI.5.6, IS 16046-2/ IEC 62133-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
36.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Quality plan	Qualitative	Cl.5.7, IS 16046-2/ IEC 62133-2	Permanent
37.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Battery safety Components	Qualitative	Cl.5.8, IS 16046-2/ IEC 62133-2	Permanent
38.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Type test and sample size	Qualitative	Cl.6.0, IS 16046-2/ IEC 62133-2	Permanent
39.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in	Specific requirement and tests	Qualitative	Cl.7.0, IS 16046-2/ IEC 62133-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	portable applications (Lithium Systems)				
40.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Charging procedures for test purposes	Qualitative: 3V to 480V, 0.6A to 480A	CI.7.1, IS 16046-2/ IEC 62133-2	Permanent
41.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Charging procedures for test purposes	Qualitative: Amb to 250 °C, -40°C to 150°C	CI.7.1, IS 16046-2/ IEC 62133-2	Permanent
42.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Continuous Low Rate Charge (Cells)	Qualitative: 1.5V to 80V, 0.03 A to 48A	CI.7.2.1, IS 16046-2/ IEC 62133-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
43.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Continuous Low Rate Charge (Cells)	Qualitative: Amb to 250 °C, -40 to 80°C	Cl.7.2.1, IS 16046-2/ IEC 62133-2	Permanent
44.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Case Stress at high Ambient Temperature (Battery)	Qualitative: Amb to 250 °C, 0 to 3600 Sec	Cl.7.2.2, IS 16046-2/ IEC 62133-2	Permanent
45.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	External short circuit(Cell)	0°C to 200°C	Cl.7.3.1, IS 16046-2/ IEC 62133-2	Permanent
46.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in	External short circuit(Cell)	Qualitative: 80mΩ, 0 to 100V	Cl.7.3.1, IS 16046-2/ IEC 62133-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	portable applications (Lithium Systems)				
47.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	External short circuit(Battery)	0°C to 200°C	Cl.7.3.2, IS 16046-2/ IEC 62133-2	Permanent
48.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	External short circuit(Battery)	Qualitative: 80mΩ, 0 to 100V	Cl.7.3.2, IS 16046-2/ IEC 62133-2	Permanent
49.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Free fall	Qualitative: 0 to 300 mm	Cl.7.3.3, IS 16046-2/ IEC 62133-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
50.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Thermal abuse (Cells)	Qualitative:  -70°C to 150 °C, 0 to 3600 Sec	Cl.7.3.4, IS 16046-2/ IEC 62133-2	Permanent
51.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Crush (Cells)	Qualitative: 0 to 20 kN, 0 to 100 V	Cl.7.3.5, IS 16046-2/ IEC 62133-2	Permanent
52.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Over-charging of Battery	Qualitative: 3 to 240V, 0.5 to 800A, -40 to 80 °C	Cl.7.3.6, IS 16046-2/ IEC 62133-2	Permanent
53.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in	Over-charging of Battery	Amb to 250°C	Cl.7.3.6, IS 16046-2/ IEC 62133-2	Permanent



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	portable applications (Lithium Systems)				
54.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Forced discharge(Cells)	Qualitative: 1.5 to 24V, 0.375 to 1200 A	Cl.7.3.7, IS 16046-2/ IEC 62133-2	Permanent
55.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Mechanical tests (Batteries)	Qualitative	Cl.7.3.8, IS 16046-2/ IEC 62133-2	Permanent
56.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Vibration	Qualitative: 5 to 3000Hz	Cl.7.3.8.1, IS 16046-2/ IEC 62133-2	Permanent



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57.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Mechanical Shock	Qualitative: up to 200 'g'	Cl.7.3.8.2, IS 16046-2/ IEC 62133-2	Permanent
58.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Information for safety	Qualitative	Cl.8.0, 8.1, IS 16046-2/ IEC 62133-2	Permanent
59.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Small cell and battery safety information	Qualitative	Cl.8.2, IS 16046-2/ IEC 62133-2	Permanent
60.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in	Marking	Qualitative	Cl.9.0, IS 16046-2/ IEC 62133-2	Permanent



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	portable applications (Lithium Systems)				
61.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Cell marking	Qualitative	CI.9.1, IS 16046-2/ IEC 62133-2	Permanent
62.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Battery marking	Qualitative	CI.9.2, IS 16046-2/ IEC 62133-2	Permanent
63.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Caution for ingestion of small cells and batteries	Qualitative	CI.9.3, IS 16046-2/ IEC 62133-2	Permanent



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64.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Other information	Qualitative	Cl.9.4, IS 16046-2/ IEC 62133-2	Permanent
65.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Packaging and transport	Qualitative	Cl.9.5, IS 16046-2/ IEC 62133-2	Permanent
66.	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Packaging	Qualitative	Cl.10.0, IS 16046-2/ IEC 62133-2	Permanent
67.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Photovoltaic Energy System	Qualitative	Cl. No. 4.0, 4.1, IS 16270	Permanent
68.	Secondary cells and batteries for solar photovoltaic application -	Secondary Cells & Battery	Qualitative	Cl. No. 4.2, IS 16270	Permanent



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	General requirements and methods of test				
69.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	General Operating Conditions	Qualitative	Cl. No. 4.3, IS 16270	Permanent
70.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Mechanical Endurance	Qualitative	Cl. No. 5, 5.1, IS 16270	Permanent
71.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Charge Efficiency	Qualitative	Cl. No. 5.2, IS 16270	Permanent
72.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Deep Discharge Protection	Qualitative	Cl. No. 5.3, IS 16270	Permanent
73.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Marking	Qualitative	Cl. No. 5.4, IS 16270	Permanent
74.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Safety	Qualitative	Cl. No. 5.5, IS 16270	Permanent
75.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Documentation	Qualitative	Cl. No. 5.6, IS 16270	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
76.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Functional Characteristics	Qualitative	Cl. No. 6, IS 16270	Permanent
77.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	General Test Condition	Qualitative	Cl. No. 7., IS 16270	Permanent
78.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Capacity Test	Qualitative: 3 to 480V, 0.6 A to 480A	Cl. No. 8.1., IS 16270	Permanent
79.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Endurance test	Qualitative: 3V to 480V, 0.6 A to 480A, 0.1°C to 150 °C	Cl. No. 8.2., IS 16270	Permanent
80.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Charge Retention Test	Qualitative: 3 to 480V, 0.6to 480A	Cl. No. 8.3., IS 16270	Permanent
81.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Cycle Endurance in Photovoltaic Application	Qualitative: 3V to 480V, 0.6A to 480A, Amb to 250 °C	Cl. No. 8.4., IS 16270	Permanent
82.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Sulphation Test	Qualitative: 3V to 480 V, 0.6A to 480A	Cl. No. 8.5., IS 16270	Permanent
83.	Secondary cells and batteries for solar photovoltaic application -	Water loss test	Qualitative: 3V to 480V, 0.6A to 480A	Cl. No. 8.6., IS 16270	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	General requirements and methods of test				
84.	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Test	Qualitative	Cl. No. 9., IS 16270	Permanent
85.	Stationary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Use in Industrial Appliance	Marking and Designation	Qualitative	Cl. No.5, IS 16822/IEC 62620	Permanent
86.	Stationary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Use in Industrial Appliance	Electrical Tests	Qualitative	Cl. No.6, 6.1, IS 16822/IEC 62620	Permanent
87.	Stationary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Use in Industrial Appliance	Charging procedure for testing purposes	Qualitative: 3V to 480V, 0.6 A to 480 A, -40°C to 80°C, Amb to 250°C	Cl. No.6.2, IS 16822/IEC 62620	Permanent
88.	Stationary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Use in Industrial Appliance	Discharge Performance	Qualitative: 3V to 480V, 0.6A to 480 A, -40°C to 80°C, Amb to 250°C	Cl. No.6.3, IS 16822/IEC 62620	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
89.	Stationary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Use in Industrial Appliance	Charge (Capacity) Retention and Recovery	Qualitative: 3V to 480V, 0.6 A to 480A, -40°C to 80°C, Amb to 250°C	Cl. No.6.4, IS 16822/IEC 62620	Permanent
90.	Stationary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Use in Industrial Appliance	Cell and Battery Internal Resistance	Qualitative: 3V to 480V, 0.6 °C to 480A, -40°C to 80°C, Amb to 250°C	Cl. No.6.5, IS 16822/IEC 62620	Permanent
91.	Stationary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Use in Industrial Appliance	Endurance	Qualitative: 3V to 480V, 0.6to 480A, -40°C to 80°C, Amb to 250°C	Cl. No.6.6, IS 16822/IEC 62620	Permanent
92.	Stationary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Use in Industrial Appliance	Type Test Conditions	Qualitative	Cl. No.7, IS 16822/IEC 62620	Permanent
93.	Stationary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Use in Industrial Appliance	Dimensions	Qualitative	Cl. No.7.3.1, IS 16822/IEC 62620	Permanent
94.	Stationary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes-	Electrical tests	Qualitative	Cl. No.7.3.2, IS 16822/IEC 62620	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Secondary Lithium Cells and Batteries for Use in Industrial Appliance				
95.	Standard for Safety - Lithium Batteries	Short-Circuit Test	0°C to 200°C	Cl. No.10, UL 1642	Permanent
96.	Standard for Safety - Lithium Batteries	Short-Circuit Test	Qualitative: 80mΩ, 0.1V to 100V, -70°C to 150 °C	Cl. No.10, UL 1642	Permanent
97.	Standard for Safety - Lithium Batteries	Abnormal Charging Test	Qualitative: 3V to 480V, 0.6A to 480A, 0.1V to 80 V, 0.3A to 48A, -30°C to 300°C, 0 to 3600 sec	Cl. No.11, UL 1642	Permanent
98.	Standard for Safety - Lithium Batteries	Forced-Discharge Test	Qualitative: 1.5V to 24V, 0.375 A to 1200 A,-30°C to300°C	Cl. No.12, UL 1642	Permanent
99.	Standard for Safety - Lithium Batteries	Crush Test	0kN to 20kN	Cl. No.13, UL 1642	Permanent
100.	Standard for Safety - Lithium Batteries	Impact Test	Qualitative: 1mm to 5m, 1kg to 15kg	Cl. No.14, UL 1642	Permanent
101.	Standard for Safety - Lithium Batteries	Shock Test	Qualitative: up to 200 'g'	Cl. No.15, UL 1642	Permanent
102.	Standard for Safety - Lithium Batteries	Vibration Test	Qualitative: 5 to 3000Hz	Cl. No.16, UL 1642	Permanent
103.	Standard for Safety - Lithium Batteries	Heating Test	Qualitative: Amb to 250 °C	Cl. No.17, UL 1642	Permanent
104.	Standard for Safety - Lithium Batteries	Temperature cycling Test	Qualitative: -70°C to 150 °C, 0 to 3600 Sec	Cl. No.18, UL 1642	Permanent
105.	Standard for Safety - Lithium Batteries	Low Pressure (Altitude Simulation) Test	Qualitative: 100 kPa to 7 kPa, 20°C to 60 °C, 0 to 3600 Sec	Cl. No.19, UL 1642	Permanent
106.	Electrically Propelled Road Vehicles- Dimensions and Designation of Secondary Lithium-ion cells	Shape of Construction and constituent parts of	Qualitative	Cl. No.4, IS 16827	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		secondary Lithium-ion Cells			
107.	Electrically Propalled Road Vehicles-Dimensions and Designation of Secondary Lithium-ion cells	Designation of Cell	Qualitative	Cl. No.5, IS 16827	Permanent
108.	Electrical Propalled Road Vehicles-Dimensions and Designation of Secondary Lithium-ion cells	Measurement conditions	Qualitative	Cl. No.6, IS 16827	Permanent
109.	Electrical Propalled Road Vehicles-Dimensions and Designation of Secondary Lithium-ion cells	Dimensions of the selected cell design	Qualitative: 1mm to 3000 mm	Cl. No.7, IS 16827	Permanent
110.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	General	Qualitative	Cl.5.0, 5.1, IS 16805	Permanent
111.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Insulation & wiring	Qualitative	Cl.5.2, IS 16805	Permanent
112.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Venting	Qualitative	Cl.5.3, IS 16805	Permanent
113.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Temperature/Voltage/Current Management	Qualitative	Cl.5.4, IS 16805	Permanent
114.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Terminal contacts of the Battery pack and Battery System	Qualitative	Cl.5.5, IS 16805	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
115.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Assembly of cells into batteries	Qualitative	Cl.5.6, IS 16805	Permanent
116.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Specific requirement and tests	Qualitative	Cl.7.0, IS 16805	Permanent
117.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Charging procedure for testing purposes	Qualitative: 3V to 480V, 0.6 A to 480A, Amb to 250°C, -40°C to 80°C	Cl.7.1, IS 16805	Permanent
118.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	External Short-circuit test (Cell or cell block)	0°C to 200°C	Cl.7.2.1, IS 16805	Permanent
119.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	External Short-circuit test (Cell or cell block)	Qualitative: 80mΩ, 0 to 100V	Cl.7.2.1, IS 16805	Permanent
120.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Impact Test	Qualitative	Cl.7.2.2, IS 16805	Permanent
121.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Drop Test	Qualitative	Cl.7.2.3, IS 16805	Permanent
122.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Thermal abuse test (cell or cell block)	Qualitative: -70°C to 150 °C	Cl.7.2.4, IS 16805	Permanent
123.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Overcharge Test	Qualitative: 3 to 480 V, 0.6A to 480 A	Cl.7.2.5, IS 16805	Permanent
124.	Safety Requirements for Secondary Lithium Cells	Overcharge Test	-40°C to 80°C	Cl.7.2.5, IS 16805	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	and Batteries, for use in Industrial Appliance				
125.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Forced-Discharge Test	Qualitative: 1.5V to 24V, 0.375 A to 1200 A	Cl.7.2.6, IS 16805	Permanent
126.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Propagation test (battery System)	Qualitative	Cl.7.3.3, IS 16805	Permanent
127.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Battery System Safety	Qualitative	Cl.8.0, 8.1, IS 16805	Permanent
128.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Battery management System	Qualitative	Cl.8.2, IS 16805	Permanent
129.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Overcharge control of Voltage (Battery System)	Qualitative: 3V to 480 V, 0.6A to 480 A	Cl.8.2.2, IS 16805	Permanent
130.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Overheating Control System	-30°C to 300°C	Cl.8.2.4, IS 16805	Permanent
131.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Information for safety	Qualitative	Cl.9.0, IS 16805	Permanent
132.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Marking and Designation	Qualitative	Cl.10.0, IS 16805	Permanent
133.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Parameter measurement tolerances	Qualitative	Cl.4, IEC 62619	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
134.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	General safety considerations	Qualitative	Cl.5, IEC 62619	Permanent
135.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Type test conditions	Qualitative	Cl.6, IEC 62619	Permanent
136.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Specific requirement and tests	Qualitative	Cl.7.0, IEC 62619	Permanent
137.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Charging procedure for testing purposes	Qualitative: 3V to 480V, 0.6A to 480A, Amb to 250 °C, -40°C to 80°C	Cl.7.1, IEC 62619	Permanent
138.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Reasonably foreseeable misuse	Qualitative	Cl.7.2, IEC 62619	Permanent
139.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	External Short-circuit test (Cell or cell block)	0°C to 200°C	Cl.7.2.1, IEC 62619	Permanent
140.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	External Short-circuit test (Cell or cell block)	Qualitative: 80mΩ, 0 to 100V	Cl.7.2.1, IEC 62619	Permanent
141.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Impact Test	Qualitative	Cl.7.2.2, IEC 62619	Permanent
142.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Drop Test	Qualitative	Cl.7.2.3, IEC 62619	Permanent
143.	Safety Requirements for Secondary Lithium Cells	Thermal abuse test (cell or cell block)	Qualitative:-70°C to 150 °C	Cl.7.2.4, IEC 62619	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	and Batteries, for use in Industrial Appliance				
144.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Overcharge Test	Qualitative: 3V to 480 V, 0.6A to 480 A	Cl.7.2.5, IEC 62619	Permanent
145.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Overcharge Test	-40°C to 80°C	Cl.7.2.5, IEC 62619	Permanent
146.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Forced-Discharge Test	Qualitative: 1.5V to 24V, 0.375 A to 1200 A	Cl.7.2.6, IEC 62619	Permanent
147.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Battery System Safety	Qualitative	Cl.8.0, 8.1, IEC 62619	Permanent
148.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Battery management System	Qualitative	Cl.8.2, IEC 62619	Permanent
149.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Overcharge control of Voltage (Battery System)	Qualitative: 3V to 480 V, 0.6 A to 480 A	Cl.8.2.2, IEC 62619	Permanent
150.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Overcharge control of Voltage (Battery System)	Qualitative: 3 V to 480 V, 0.6A to 480 A	Cl.8.2.3, IEC 62619	Permanent
151.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Overheating Control System	-30°C to 300°C	Cl.8.2.4, IEC 62619	Permanent
152.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Information for safety	Qualitative	Cl.10.0, IEC 62619	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
153.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Marking and designation	Qualitative	Cl.11, IEC 62619	Permanent
154.	Safety Requirements for Secondary Lithium Cells and Batteries, for use in Industrial Appliance	Packaging and transport	Qualitative	Cl.12, IEC 62619	Permanent
155.	Lithium metal and lithium ion cells & Batteries	Altitude Simulation	Qualitative: 20°C to 60°C, 100 kPa to 7 kPa, 0 to 3600 sec	Cl.38.3.4.1 of UN 38.3 (7th Revision)	Permanent
156.	Lithium metal and lithium ion cells & Batteries	Thermal Test	Qualitative: -70°C to 150 °C, 0 to 3600 Sec	Cl.38.3.4.2 of UN 38.3 (7th Revision)	Permanent
157.	Lithium metal and lithium ion cells & Batteries	Vibration	Qualitative: 5 to 3000Hz	Cl.38.3.4.3 of UN 38.3 (7th Revision)	Permanent
158.	Lithium metal and lithium ion cells & Batteries	Shock Test	Qualitative: up to 200 'g'	Cl.38.3.4.4 of UN 38.3 (7th Revision)	Permanent
159.	Lithium metal and lithium ion cells & Batteries	External Short Circuit	0°C to 200°C	Cl.38.3.4.5 of UN 38.3 (7th Revision)	Permanent
160.	Lithium metal and lithium ion cells & Batteries	External Short Circuit	Qualitative: 80mΩ, 0.1V to 100V, -70°C to 150°C	Cl.38.3.4.5 of UN 38.3 (7th Revision)	Permanent
161.	Lithium metal and lithium ion cells & Batteries	Impact & Crush Test	Qualitative: 0 to 20 kN, 0.1 to 100 V	Cl.38.3.4.6 of UN 38.3 (7th Revision)	Permanent
162.	Lithium metal and lithium ion cells & Batteries	Over Charging	Qualitative: 3V to 480 V, 0.6A to 480 A	Cl.38.3.4.7 of UN 38.3 (7th Revision)	Permanent
163.	Lithium metal and lithium ion cells & Batteries	Forced-Discharge Test	Qualitative: 1.5V to 24V, 0.375A to 1200 A, -30°C to 300°C	Cl.38.3.4.8 of UN 38.3 (7th Revision)	Permanent
164.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Portable Applications	Cell Designation and marking	Qualitative	Cl.5 of IS 16047-3	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
165.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Portable Applications	Examples of cells	Qualitative	Cl.6 of IS 16047-3	Permanent
166.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Portable Applications	Electrical Tests	Qualitative: 3V to 480 V, 0.6A to 480 A	Cl.7.1 of IS 16047-3	Permanent
167.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Portable Applications	Charging procedure for testing purposes	Qualitative: 3V to 480 V, 0.6 A to 480 A, Amb to 250°C, -40 to 80 °C	Cl.7.2 of IS 16047-3	Permanent
168.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Portable Applications	Discharging performance	Qualitative: 3 V to 480 V, 0.6A to 480 A, -40°C to 80 °C	Cl.7.3 of IS 16047-3	Permanent
169.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Portable Applications	Charge (Capacity) Retention and Recovery	Qualitative: -40 °C to 80 °C	Cl.7.4 of IS 16047-3	Permanent
170.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes-	Charge (Capacity) Recovery after long term	Qualitative: -40°C to 80 °C	Cl.7.5 of IS 16047-3	Permanent



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**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Secondary Lithium Cells and Batteries for Portable Applications				
171.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Portable Applications	Endurance cycle	Qualitative: -40 to 80 °C	Cl.7.6 of IS 16047-3	Permanent
172.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Portable Applications	Battery internal resistance	Qualitative: 3V to 480 V, 0.6A to 480 A, 0.01 μΩ to 1999 μΩ	Cl.7.7 of IS 16047-3	Permanent
173.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Portable Applications	Electrostatic discharge (ESD)	Qualitative: 3 to 480 V, 0.6 to 480 A	Cl.7.8 of IS 16047-3	Permanent
174.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Portable Applications	Test protocol and conditions for type approval	Qualitative	Cl.8.1 of IS 16047-3	Permanent
175.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells and Batteries for Portable Applications	Condition type approval	Qualitative	Cl.8.2 of IS 16047-3	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
176.	Battery Operated Vehicles -Safety Requirements of Traction Batteries	Overcharge Test (Cell Level or Battery module or Battery Pack)	Qualitative: 3V to 480V, 0.6A-480A, 0.1V to 80V, 0.3A to 48A	Cl. 2.1.2 AIS 048	Permanent
177.	Battery Operated Vehicles -Safety Requirements of Traction Batteries	Vibration Test	Qualitative: 5Hz to 3000Hz	Cl. 2.2.1 AIS 048	Permanent
178.	Battery Operated Vehicles -Safety Requirements of Traction Batteries	Shock Test	Qualitative: up to 200 'g'	Cl. 2.2.2 AIS 048	Permanent
179.	Battery Operated Vehicles -Safety Requirements of Traction Batteries	Penetration Test (Cell Level or Battery module)	Qualitative: Diameter of rod for cell: 3mm, dia of rod for battery module: 20mm	Cl. 2.2.4 AIS 048	Permanent
180.	Battery Operated Vehicles -Safety Requirements of Traction Batteries	Rated Capacity	Qualitative: 3V-480V, 0.6 A-480 A, -70°C to 150°C, Amb. to 250°C	ANNEX - A AIS 048	Permanent
181.	Specific Requirements for Electric Power Train of Vehicles	Application for approval of REESS (Informative)	Qualitative	Cl. 4 AIS 038 Rev 2	Permanent
182.	Specific Requirements for Electric Power Train of Vehicles	Requirement of a rechargeable electrical energy storage system (REESS) with regards to	Qualitative: 3V to 480V, 0.6A to 480A, 0.1V to 80V, 0.3A to 48 A	Cl. 6.1 AIS 038 Rev 2	Permanent
183.	Specific Requirements for Electric Power Train of Vehicles	Vibration	Qualitative: 5Hz to 3000Hz	Cl. 6.2 AIS 038 Rev 2	Permanent
184.	Specific Requirements for Electric Power Train of Vehicles	Thermal shock and cycling	Qualitative: (-)40°C to 60°C± 2°C	Cl. 6.3 AIS 038 Rev 2	Permanent
185.	Specific Requirements for Electric Power Train of Vehicles	Mechanical Shock-	Qualitative: up to 200 'g'	Cl. 6.4.1.2 AIS 038 Rev 2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		Component based test			
186.	Specific Requirements for Electric Power Train of Vehicles	External Short Circuit Protection	Qualitative: 80mΩ, 0 to 100V	Cl. 6.6 AIS 038 Rev 2	Permanent
187.	Specific Requirements for Electric Power Train of Vehicles	Overcharge Protection	Qualitative: 3V to 480V, 0.6A to 480A	Cl. 6.7 AIS 038 Rev 2	Permanent
188.	Specific Requirements for Electric Power Train of Vehicles	Over-Discharge Protection	Qualitative: 3V to 480V, 0.6A to 480A	Cl. 6.8 AIS 038 Rev 2	Permanent
189.	Specific Requirements for Electric Power Train of Vehicles	Over-temperature Protection	Qualitative: 3V to 480V, 0.6A to 480A, -70°C to 150°C, Amb. To 250°C	Cl. 6.9 AIS 038 Rev 2	Permanent
190.	Specific Requirements for Electric Power Train of Vehicles	Overcurrent protection	Qualitative: 3V-480V, 0.6A to 480A, -70°C to 150°C, Amb. to 250°C	Cl. 6.10 AIS 038 Rev 2	Permanent
191.	Specific Requirements for Electric Power Train of Vehicles	Low-temperature protection.	Qualitative: 3V-480V, 0.6A-480A, -70°C to 150°C, Amb. To 250°C	Cl. 6.11 AIS 038 Rev 2	Permanent
192.	Specific Requirements for L Category Electric Power Train Vehicles	General	Qualitative: 3V to 480V, 0.6A to 480A, 0.1V to 80 V, 0.3A to 48 A	Cl. 6.1 AIS 156	Permanent
193.	Specific Requirements for L Category Electric Power Train Vehicles	Vibration	Qualitative: 5Hz to 3000 Hz	Cl. 6.2 AIS 156	Permanent
194.	Specific Requirements for L Category Electric Power Train Vehicles	Thermal shock and cycling	Qualitative: -70°C to 150°C, 0 to 3600 sec	Cl. 6.3 AIS 156	Permanent
195.	Specific Requirements for L Category Electric Power Train Vehicles	Drop test for removable REESS	Qualitative	Cl. 6.4.1 AIS 156	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
196.	Specific Requirements for L Category Electric Power Train Vehicles	Mechanical Shock	Qualitative: up to 200 'g'	Cl. 6.4.2 AIS 156	Permanent
197.	Specific Requirements for L Category Electric Power Train Vehicles	Overcharge Protection	Qualitative: 3V-480V, 0.6A to 480A	Cl. 6.7 AIS 156	Permanent
198.	Specific Requirements for L Category Electric Power Train Vehicles	Over-Discharge Protection	Qualitative: 3V to 480V, 0.6A to 480A	Cl. 6.8 AIS 156	Permanent
199.	Specific Requirements for L Category Electric Power Train Vehicles	Over-temperature Protection	Qualitative: 3V to 480V, 0.6A to 480A, -70°C to 150°C, Amb. to 250°C	Cl. 6.9 AIS 156	Permanent
200.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in Electrical Energy Storage System	Parameter measurement tolerances	Qualitative	Cl. 4 IEC 63056	Permanent
201.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in Electrical Energy Storage System	General safety considerations	Qualitative	Cl. 5 IEC 63056	Permanent
202.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in	Type test conditions	Qualitative	Cl. 6 IEC 63056	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Electrical Energy Storage System				
203.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in Electrical Energy Storage System	Specific requirements and tests	Qualitative	Cl. 7 IEC 63056	Permanent
204.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in Electrical Energy Storage System	Resistance to abnormal heat.	Qualitative: Amb. to 250°C	Cl. 7.2 IEC 63056	Permanent
205.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in Electrical Energy Storage System	Casing material of a battery system that can be transported for installation or maintenance	Qualitative: 50W Flame	Cl. 7.3 IEC 63056	Permanent
206.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in	Electric Insulation Test	0.01MΩ-999 MΩ	Cl. 7.4 IEC 63056	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Electrical Energy Storage System				
207.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in Electrical Energy Storage System	Charging procedures for test purposes	Qualitative: 3V to 120V, 0.6A to 480A, Amb. to 250°C	Cl. 7.5 IEC 63056	Permanent
208.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in Electrical Energy Storage System	Protection against short circuit Test	Qualitative: Amb. to 250°C, 80mΩ	Cl. 7.6 IEC 63056	Permanent
209.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in Electrical Energy Storage System	Protection for reverse connection	Qualitative: 3V to 120V, 0.6A to 480A, Amb. to 250°C	Cl. 7.7 IEC 63056	Permanent
210.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in	Overdischarge control of voltage (battery system)	Qualitative: 3V to 120V, 0.6A to 480A, Amb. to 250°C	Cl. 7.8 IEC 63056	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Electrical Energy Storage System				
211.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in Electrical Energy Storage System	Drop Test	Qualitative	Cl. 7.9 IEC 63056	Permanent
212.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in Electrical Energy Storage System	Information for safety	Qualitative	Cl. 8 IEC 63056	Permanent
213.	Secondary cells and batteries containing alkaline or other non-acid electrolytes — safety requirements for secondary lithium cells and batteries, for use in Electrical Energy Storage System	Marking and designation	Qualitative	Cl. 9 IEC 63056	Permanent
214.	Measurement of Cycle Life and Energy Density for Advanced Chemistry Cells —Method of Tests	General	Qualitative: 3V to 480V, 0.6A to 480A, 1.5V -24 V, 0.375A to 1200A, 0.1 kg to 300 kg	Cl. 4 IS 17882	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
215.	Measurement of Cycle Life and Energy Density for Advanced Chemistry Cells —Method of Tests	Parameter Measurement Tolerance	Qualitative	Cl. 5 IS 17882	Permanent
216.	Measurement of Cycle Life and Energy Density for Advanced Chemistry Cells —Method of Tests	Energy Capacity Measurements (in Wh)	Qualitative: 3V-480V, 0.6A-480A, 1.5-24 V, 0.375A-1200A, -70°C to 150°C	Cl. 6 IS 17882	Permanent
217.	Measurement of Cycle Life and Energy Density for Advanced Chemistry Cells —Method of Tests	Calculation of Gravimetric energy Density	Qualitative: 3V to 480V, 0.6A to 480A, 1.5V to 24 V, 0.375A to 1200A, 0.1kg to 300 kg	Cl. 7 IS 17882	Permanent
218.	Measurement of Cycle Life and Energy Density for Advanced Chemistry Cells —Method of Tests	Test Method for Cycle Life Measurement	Qualitative: 3V to 480V, 0.6A-480A, 1.5V to 24 V, 0.375A to 1200A, -70°C to 150°C	Cl. 8 IS 17882	Permanent
219.	Measurement of Cycle Life and Energy Density for Advanced Chemistry Cells —Method of Tests	Sampling	Qualitative	Cl. 9 IS 17882	Permanent
220.	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Rating and Designation	Qualitative	Cl. No.4, IS 1651	Permanent
221	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Materials	Qualitative	Cl. No.5, IS 1651	Permanent
222	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Constructional Requirements	Qualitative	Cl. No.6, IS 1651	Permanent
223	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Capacities and Dimensions	Qualitative	Cl. No.7, IS 1651	Permanent
			Qualitative	Cl. No.8, IS 1651	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
224	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Marking and Packing			
225	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Manual Instructions	Qualitative	Cl. No.9, IS 1651	Permanent
226	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Condition of Supply	Qualitative	Cl. No.10, IS 1651	Permanent
227	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	General Requirements for Tests	Qualitative	Cl. No.11, IS 1651	Permanent
228	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Classification of Tests	Qualitative	Cl. No.12.1, IS 1651	Permanent
229	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Verification of constructional requirements	Qualitative	Cl. No.12.2, IS 1651	Permanent
230	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Verification of marking	Qualitative	Cl. No.12.3, IS 1651	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
231	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Verification of dimensions	Qualitative: 1mm to 3000mm	Cl. No.12.4, IS 1651	Permanent
232	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Tests of Capacity	Qualitative: 1.5V to 24V, 0.375A to 1200A	Cl. No.12.5, IS 1651	Permanent
223	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Tests of Capacity	Qualitative: 1.5V to 24V, 0.375 to 1200A	Cl. No.12.5, IS 1651	Permanent
234	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Test for voltage during discharge	Qualitative: 1.5V to 24V, 0.375 A to 1200A	Cl. No.12.10, IS 1651	Permanent
235	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Ampere-hour and watt-hour efficiency tests	Qualitative: 1.5V to 24V, 0.375A to 1200A	Cl. No.12.9, IS 1651	Permanent
236	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Test for loss of capacity on storage	Qualitative: 1.5V to 24V, 0.375 A to 1200A	Cl. No.12.7, IS 1651	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
237	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Endurance test	Qualitative: 1.5V to 24V, 0.375A to 1200A	Cl. No.12.8, IS 1651	Permanent
238	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Endurance test	Qualitative: 0.1°C to 300 °C	Cl. No.12.8, IS 1651	Permanent
239	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Water loss test	Qualitative: upto 300 kg	Cl. No.12.11, IS 1651	Permanent
240	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Test for suitability of floating battery operation	Qualitative	Cl. No.12.12, IS 1651	Permanent
241	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Short circuit current and internal resistance	Quantitative: 0°C to 200°C	Cl. No.12.13, IS 1651	Permanent
242	Stationary Cells and Batteries, Lead-Acid Type with Tubular Positive Plates	Short circuit current and internal resistance	Qualitative: 80mΩ, 0 to 100 V	Cl. No.12.13, IS 1651	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
243	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Rating and Designation	Qualitative	Cl. No.4, IS 1652	Permanent
244	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Constructional Requirements	Qualitative	Cl. No.5, IS 1652	Permanent
245	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Capacities and Dimensions	Qualitative:1mm to 3000mm	Cl. No.6, IS 1652	Permanent
246	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Marking	Qualitative	Cl. No.7, IS 1652	Permanent
247	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	packing	Qualitative	Cl. No.8, IS 1652	Permanent
248	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Conditions of Supply	Qualitative	Cl. No.9, IS 1652	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
249	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	General Requirements for Tests	Qualitative	Cl. No.10, IS 1652	Permanent
250	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Classification of Tests	Qualitative	Cl. No.10.4, IS 1652	Permanent
251	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Tests for Capacity	Qualitative:1.5V to 24V, 0.375A to 1200A	Cl. No.10.6, IS 1652	Permanent
252	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Alternate Rated Test Discharge	Qualitative:1.5V to 24V, 0.375A to 1200A	Cl. No.10.7, IS 1652	Permanent
253	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Test for loss of capacity on storage	Qualitative:1.5V to 24V, 0.375A to 1200A	Cl. No.10.8, IS 1652	Permanent
254	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Endurance test	Qualitative:1.5V to 24V, 0.375 A to 1200A, 0.1°C to 300 °C	Cl. No.10.9, IS 1652	Permanent
255	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Ampere-hour and watt-hour efficiency tests	Qualitative:1.5V to 24V, 0.375A to 1200A	Cl. No.10.10, IS 1652	Permanent
256	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Test for Voltages During Discharge	Qualitative:1.5V to 24V, 0.375A to 1200A	Cl. No.10.11, IS 1652	Permanent



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**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
257	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Loss of Water Test	Qualitative: up to 300 kg	Cl. No.10.12, IS 1652	Permanent
258	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Test for suitability of floating battery operation	Qualitative	Cl. No.10.13, IS 1652	Permanent
259	Lithium metal, lithium ion and sodium ion cells & Batteries	Altitude Simulation	Qualitative: 20°C to 60°C, 100 kPa to 7 kPa, 0 to 3600 sec	Cl.38.3.4.1 of UN 38.3 (8th Revision)	Permanent
260	Lithium metal, lithium ion and sodium ion cells & Batteries	Thermal Test	Qualitative: -70°C to 150 °C, 0 to 3600 Sec	Cl.38.3.4.2 of UN 38.3 (8th Revision)	Permanent
261	Lithium metal, lithium ion and sodium ion cells & Batteries	Vibration	Qualitative: 5Hz to 3000Hz	Cl.38.3.4.3 of UN 38.3 (8th Revision)	Permanent
262	Lithium metal, lithium ion and sodium ion cells & Batteries	Shock Test	Qualitative: up to 200 'g'	Cl.38.3.4.4 of UN 38.3 (8th Revision)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
263	Lithium metal, lithium ion and sodium ion cells & Batteries	External Short Circuit	0°C to 200°C	Cl.38.3.4.5 of UN 38.3 (8th Revision)	Permanent
264	Lithium metal, lithium ion and sodium ion cells & Batteries	External Short Circuit	Qualitative: 80mΩ, 0.1V to 100V, -70°C to 150°C	Cl.38.3.4.5 of UN 38.3 (8th Revision)	Permanent
265	Lithium metal, lithium ion and sodium ion cells & Batteries	Impact & Crush Test	Qualitative: 0 to 20 kN, 0.1 to 100 V	Cl.38.3.4.6 of UN 38.3 (8th Revision)	Permanent
267	Lithium metal, lithium ion and sodium ion cells & Batteries	Over Charging	Qualitative: 3V to 480 V, 0.6A to 480 A	Cl.38.3.4.7 of UN 38.3 (8th Revision)	Permanent
268	Lithium metal, lithium ion and sodium ion cells & Batteries	Forced-Discharge Test	Qualitative: 1.5V to 24V, 0.375 A to 1200 A, -30°C to 300°C	Cl.38.3.4.8 of UN 38.3 (8th Revision)	Permanent
269	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Marking	Qualitative	Cl. No. 5.5, IS 16270+A1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
270	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Capacity Test	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, -70 to 150°(650 x 580 x 800)	Cl. No. 8.1., IS 16270+A1	Permanent
271	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Endurance test	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, Amb to 60 °C, (910x610x540) mm	Cl. No. 8.2., IS 16270 +A1	Permanent
272	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Charge Retention Test	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, -70 to 150°(650 x 580 x 800)	Cl. No. 8.3., IS 16270 +A1	Permanent
273	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Cycle Endurance in Photovoltaic Application	Qualitative 3V to 120V, 0.6A to 480A, 100ml, Amb to 250 °C (1830 x 920 x 1210) mm, -70 to 150°(650 x 580 x 800)	Cl. No. 8.4., IS 16270 +A1	Permanent
274	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Sulphation Test	Qualitative: 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, -70 to 150°(650 x 580 x 800)	Cl. No. 8.5., IS 16270 +A1	Permanent
275	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Water loss test	Qualitative 3V to 120V, 0.6A to 480A, 0.1kg-300kg, -70 to 150° (650 x 580 x 800), 0.1 to 150 °C	Cl. No. 8.6., IS 16270 +A1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
276	Stationary Cells and Batteries, Lead-Acid Type with Plates Positive Plates	Marking	Qualitative	Cl. No.7, IS 1652 +A2	Permanent
277	Stationary Cells and Batteries, Lead-Acid Type with Plates Positive Plates	Tests for Capacity	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A,0.1 to 150 °C, '-70 to 150° (650 x 580 x 800)	Cl. No.10.6, IS 1652 +A2	Permanent
278	Stationary Cells and Batteries, Lead-Acid Type with Plates Positive Plates	Alternate Rated Test Discharge	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A '-70 to 150° (650 x 580 x 800)	Cl. No.10.7, IS 1652 +A2	Permanent
279	Stationary Cells and Batteries, Lead-Acid Type with Plates Positive Plates	Test for loss of capacity on storage	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A '-70 to 150° (650 x 580 x 800)	Cl. No.10.8, IS 1652 +A2	Permanent
280	Stationary Cells and Batteries, Lead-Acid Type with Plates Positive Plates	Endurance test	Qualitative 3V to 120V, 0.6A to 480A, 1.5V to 6V, 0.375 to 1200A ambi to 60 °C, (910x610x540) mm	Cl. No.10.9, IS 1652 +A2	Permanent
281	Stationary Cells and Batteries, Lead-Acid Type with Plates Positive Plates	Ampere-hour and watt-hour efficiency tests	Qualitative 3V to 120V, 0.6A to 480A, 0.1kg-300kg, '-70 to 150° (650 x 580 x 800), 0.1 to 150 °C	Cl. No.10.10, IS 1652 +A2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
282	Stationary Cells and Batteries, Lead-Acid Type with Plates Positive Plates	Test for Voltages During Discharge	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A '-70 to 150° (650 x 580 x 800)	Cl. No.10.11, IS 1652 +A2	Permanent
283	Stationary Cells and Batteries, Lead-Acid Type with Plates Positive Plates	Loss of Water Test	Qualitative 3V to 120V, 0.6A to 480A, 0.1kg-300kg, '-70 to 150°(650 x 580 x 800), 0.1 to 150 °C	Cl. No.10.12,Cl 13,Cl 10.14, IS 1652+A2	Permanent
284	Stationary cells and batteries lead acid batteries-Specification	markings on cell	Qualitative	Cl. No. 8, IS 15549 +A3	Permanent
285	Stationary cells and batteries lead acid batteries-Specification	Test for C 10 Capacity	Qualitative: 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A, '-70 to 150° (650 x 580 x 800	Cl. No. 12.1, IS 15549 +A3	Permanent
286	Stationary cells and batteries lead acid batteries-Specification	Test for Cl Capacity	Qualitative: 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A, '-70 to 150° (650 x 580 x 800	Cl. No. 12.2, IS 15549 +A3	Permanent
287	Stationary cells and batteries lead acid batteries-Specification	Capacity Test at Other Discharge Rates	Qualitative	Cl. No. 12.3, IS 15549 +A3	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
288	Stationary cells and batteries lead acid batteries-Specification	Ampere Hour Efficiency & Watt Hour Efficiency	Qualitative 3V to 120V, 0.6A to 480A, 0.1kg-300kg, '-70 to 150° (650 x 580 x 800), 0.1 to 150 °C	Cl. No. 12.4, IS 15549 +A3	Permanent
289	Stationary cells and batteries lead acid batteries-Specification	Test for Retention of Charge	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, '-70 to 150° (650 x 580 x 800	Cl. No. 12.6, CI 12.5, IS 15549+A3	Permanent
290	Stationary cells and batteries lead acid batteries-Specification	Endurance Life Cycle Test	Qualitative: 3V to 120V, 0.6A to 480A, 1.5V to 6V, 0.375 to 1200A ambi to 60 °C, (910x610x540) mm	Cl. No. 12.10, IS 15549+A3	Permanent
291	Stationary Lead-Acid batteries (With tubular positive Plates) in monobloc Container-Specification	Marking	Qualitative	Cl. No. 11.2, IS 13369	Permanent
292	Stationary Lead-Acid batteries (With tubular positive Plates) in monobloc Container-Specification	Capacity	Qualitative 3V to 120V, 0.6A to 480A, -70 to 150° (650 x 580 x 800)	Cl. No. 11.5, IS 13369	Permanent
293	Stationary Lead-Acid batteries (With tubular positive Plates) in monobloc Container-Specification	Loss of capacity	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A '-70 to 150° (650 x 580 x 800	Cl. No. 11.6, IS 13369	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
294	Stationary Lead-Acid batteries (With tubular positive Plates) in monobloc Container-Specification	Endurance test	Qualitative 3V to 120V, 0.6A to 480A, 1.5V to 6V, 0.375 to 1200A ambi to 60 °C, (910x610x540) mm	Cl. No. 11.7, IS 13369	Permanent
295	Stationary Lead-Acid batteries (With tubular positive Plates) in monobloc Container-Specification	Ampere Hour Efficiency & Watt Hour Efficiency	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A '-70 to 150° (650 x 580 x 800)	Cl. No. 11.8, IS 13369	Permanent
296	Stationary Lead-Acid batteries (With tubular positive Plates) in monobloc Container-Specification	Water loss	Qualitative 3V to 120V, 0.6A to 480A, 0.1kg-300kg, '-70 to 150° (650 x 580 x 800), 0.1 to 150 °C	Cl. No. 11.9, IS 13369	Permanent
297	Stationary Lead-Acid batteries (With tubular positive Plates) in monobloc Container-Specification	Equilibrium float current	Qualitative 3V to 120V, 0.6A to 480A, 0.1kg-300kg, '-70 to 150° (650 x 580 x 800), 0.1 to 150 °C	Cl. No. 11.10, IS 13369	Permanent
298	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells with partial gas recombination	Designation and marking	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A, Amb to 250 °C (1830x920x1210) mm, -70 to 150°(650 x 580 x 800)	Cl.No.5.3 IS 15767/IEC 62259	Permanent
299	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells	Electrical tests	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A, Amb to 250 °C (1830x920x1210)	Cl. No.7. IS 15767/IEC 62259	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	with partial gas recombination		mm, -70 to 150°(650 x 580 x 800)		
300	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells with partial gas recombination	Charging procedure for test purposes	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A, Amb to 250 °C (1830x920x1210) mm, -70 to 150° (650 x 580 x 800)	Cl. No.7.1 IS 15767/IEC 62259	Permanent
301	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells with partial gas recombination	Discharge performance	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A-70 to 150° (650 x 580 x 800)	Cl. No.7.2 IS 15767/IEC 62259	Permanent
302	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells with partial gas recombination	Discharge performance at +5 °C	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A-70 to 150° (650 x 580 x 800)	Cl. No.7 .2.2 IS 15767/IEC 62259	Permanent
303	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells with partial gas recombination	Discharge performance at-18 °C	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A-70 to 150° (650 x 580 x 800)	Cl. No.7.2.3 IS 15767/IEC 62259	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
304	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells with partial gas recombination	High-rate current test	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A-70 to 150°(650 x 580 x 800)	Cl. No.7.2.4 IS 15767/IEC 62259	Permanent
305	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells with partial gas recombination	Charge retention	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A -70 to 150°(650 x 580 x 800)	Cl. No.7.3 IS 15767/IEC 62259	Permanent
306	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells with partial gas recombination	Permanent charge Endurance	Qualitative 3V to 120V, 0.6A to 480A, 1.5V to 6V, 0.375 to 1200A ambi to 60 °C, (910x610x540) mm	Cl. No.7.4 IS 15767/IEC 62259	Permanent
307	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells with partial gas recombination	Charge acceptance at constant voltage	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A Amb to 250 °C (1830 x 920 x 1210) mm	Cl. No.7.5 IS 15767/IEC 62259	Permanent
308	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells	Electrolyte retention	Qualitative 3V to 120V, 0.6A-480A, 1.5V to 6V, 0.375 to 1200A Amb to 250 °C (1830 x 920 x 1210) mm	Cl. No.7.8 IS 15767/IEC 62259	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	with partial gas recombination				
309	secondary cells and batteries containing alkaline or other non-acid electrolytes nickel-cadmium prismatic secondary single cells with partial gas recombination	Storage	Qualitative Amb. to 95%Rh, Amb to 60°C(2110x920x1210) mm	Cl. No.7.10 IS 15767/IEC 62259	Permanent
310	General Purpose Lead-Acid Batteries (Valve-Regulated Types) Part 2	Marking	Qualitative	CL no. 6 IS 16220-2 : / IEC 61056-2	Permanent
311	General Purpose Lead-Acid Batteries (Valve-Regulated Types) Part 2	Classification of battery-shapes	Qualitative	CL no. 7 IS 16220-2 / IEC 61056-2	Permanent
312	General Purpose Lead-Acid Batteries (Valve-Regulated Types) Part 2	Classification of terminal types	Qualitative	CL no. 8 IS 16220-2 / IEC 61056-2	Permanent
313	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS,	Marking of polarity	Qualitative	Cl. No. 4.4, IS 16220-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	FUNCTIONAL CHARACTERISTICS - METHODS OF TEST				
314	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS, FUNCTIONAL CHARACTERISTICS - METHODS OF TEST	Capacity Ca (actual capacity at 20 h discharge rate )	Qualitative 3V to 120V, 0.6A to 480A, '-70 to 150°(650 x 580 x 800)	Cl. No. 7.2, IS 16220-1	Permanent
315	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS, FUNCTIONAL CHARACTERISTICS - METHODS OF TEST	High rate Capacity	Qualitative 3V to 120V, 0.6A to 480A, '-70 to 150°(650 x 580 x 800)	Cl. No. 7.3, IS 16220-1	Permanent
316	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS, FUNCTIONAL CHARACTERISTICS - METHODS OF TEST	Endurance in cycles	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, '-70 to 150°(650 x 580 x 800)	Cl. No. 7.4, IS 16220-1	Permanent
317	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS,	Float service endurance	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, '-70 to 150°(650 x 580 x 800)	Cl. No. 7.5, IS 16220-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	FUNCTIONAL CHARACTERISTICS - METHODS OF TEST				
318	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS, FUNCTIONAL CHARACTERISTICS - METHODS OF TEST	Float service endurance at 40 °C	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, '-70 to 150°(650 x 580 x 800)	Cl. No. 7.6, IS 16220-1	Permanent
319	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS, FUNCTIONAL CHARACTERISTICS - METHODS OF TEST	Charge Retention	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, '-70 to 150°(650 x 580 x 800)	Cl. No. 7.7, IS 16220-1	Permanent
320	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS, FUNCTIONAL CHARACTERISTICS - METHODS OF TEST	Maximum permissible current	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, '-70 to 150°(650 x 580 x 800)	Cl. No. 7.8, IS 16220-1	Permanent
321	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS,	Charge acceptance after deep discharge	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, '-70 to 150°C (650 x 580 x 800)	Cl. No. 7.9, IS 16220-1	Permanent



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**Certificate No.:** T-0010

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**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	FUNCTIONAL CHARACTERISTICS - METHODS OF TEST				
322	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS, FUNCTIONAL CHARACTERISTICS - METHODS OF TEST	Gas emission intensity	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, '-70 to 150°C (650 x 580 x 800)	Cl. No. 7.10, IS 16220-1	Permanent
323	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS, FUNCTIONAL CHARACTERISTICS - METHODS OF TEST	Operation of regulating valve and over pressure resistance	Qualitative 3V to 120V, 0.6A to 480A, 0.1 to 150 °C, '-70 to 150°(650 x 580 x 800)	Cl. No. 7.11, IS 16220-1	Permanent
324	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS, FUNCTIONAL CHARACTERISTICS - METHODS OF TEST	Vibration resistant characteristics	Qualitative 3V to 120V, 0.6A to 480A, 2Hz to 3000 Hz	Cl. No. 7.12, IS 16220-1	Permanent
325	GENERAL PURPOSE LEAD-ACID BATTERIES (VALVE-REGULATED TYPES) - PART 1: GENERAL REQUIREMENTS,	Shock resistant characteristics	Qualitative 3V to 120V, 0.6A to 480A, Up to 200g	Cl. No. 7.13, IS 16220-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	FUNCTIONAL CHARACTERISTICS - METHODS OF TEST				
<b>Discipline: Electronics</b>			<b>Group: Telecommunication Equipment</b>		
326.	Wideband transmission systems Data transmission equipment operating in the 2.4 GHz band	Accumulated Transmit Time, Frequency occupation and Hoping sequence	Quantitative: 9KHZ-26.5GHZ	CI No. 4.3.1.4 & 5.4.4 EN 300 328 V2.2.2	Permanent
327.	Wideband transmission systems Data transmission equipment operating in the 2.4 GHz band	Hoping Frequency Separation	Quantitative : 9KHZ-26.5GHZ	CI No. 4.3.1.5 & 5.4.5 EN 300 328 V2.2.2	Permanent
328.	Wideband transmission systems Data transmission equipment operating in the 2.4 GHz band	Occupied Channel Bandwidth	Quantitative : 9KHZ-26.5GHZ	CI No. 4.3.1.8, 4.3.2.7 & 5.4.7 EN 300 328 V2.2.2	Permanent
329.	Wideband transmission systems Data transmission equipment operating in the 2.4 GHz band	Power Spectral Density (Conductive only)	Quantitative : 9KHZ-26.5GHZ	CI No. 4.3.2.3 & 5.4.3 EN 300 328 V2.2.2	Permanent
330.	Wideband transmission systems Data transmission equipment operating in the 2.4 GHz band	Receiver Blocking(Conductive Only)	Quantitative : Upto 6GHz, 50Ω, 9KHZ-26.5GHZ, 60mV-1000V,600μA-20A	CI No. 5.4.11 EN 300 328 V2.2.2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
331.	Wideband transmission systems Data transmission equipment operating in the 2.4 GHz band	RF output Power (Conductive only)	Quantitative : 9KHZ-26.5GHZ, 10MHZ-18MHZ-42DBM-+45DBM	CI No. 4.3.1.2, 4.3.2.2 & 5.4.2 EN 300 328 V2.2.2	Permanent
332.	Wideband transmission systems Data transmission equipment operating in the 2.4 GHz band	Transmitter unwanted Emission in the out-of-band domain	Quantitative : 9KHZ-26.5GHZ	CI No. 4.3.1.9, 4.3.2.8 & 5.4.8 EN 300 328 V2.2.2	Permanent
333.	Wideband transmission systems Data transmission equipment operating in the 2.4 GHz band	Transmitter unwanted emission in the spurious domain	Quantitative : 9KHZ-26.5GHZ	CI No. 4.3.1.10, 4.3.2.9 & 5.4.9 EN 300 328 V2.2.2	Permanent
334.	5 GHz RLAN Harmonised Standard	Carrier frequencies (Conductive Only)	Quantitative : 9KHZ-26.5GHZ	CI no. 4.2.1 & 5.4.2, ETSI EN 301 893	Permanent
335.	5 GHz RLAN Harmonised Standard	Nominal, and occupied channel bandwidth(Conductive Only)	Quantitative : 9KHZ-26.5GHZ	CI no. 4.2.2 & 5.4.3, ETSI EN 301 893	Permanent
336.	5 GHz RLAN Harmonised Standard	Receiver Blocking(Conductive Only)	Quantitative : Upto 6GHz, 50Ω, 9KHZ-26.5GHZ, 60mV-1000V, 600μA-20A	CI no. 4.2.8 & 5.4.10, ETSI EN 301 893	Permanent
337.	5 GHz RLAN Harmonised Standard	Receiver spurious emissions(Conductive Only)	Quantitative : 9KHZ-26.5GHZ	CI no. 4.2.5 & 5.4.7, ETSI EN 301 893	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
338.	5 GHz RLAN Harmonised Standard	RF output power, Transmit Power Control (TPC), Power Density (Conductive only)	Quantitative : 9KHZ-26.5GHZ, 10MHZ-18MHZ-42DBM-+45DBM, 24DBM	CI no. 4.2.3 & 5.4.4, ETSI EN 301 893	Permanent
339.	5 GHz RLAN Harmonised Standard	Transmitter unwanted emissions outside the 5 GHz RLAN bands(Conductive Only)	Quantitative : 9KHZ-26.5GHZ	CI no. 4.2.4.1 & 5.4.5, ETSI EN 301 893	Permanent
340.	5 GHz RLAN Harmonised Standard	Transmitter unwanted emissions within the 5 GHz RLAN bands(Conductive Only)	Quantitative : 9KHZ-26.5GHZ	CI no. 4.2.4.2 & 5.4.6, ETSI EN 301 893	Permanent
341.	Short Range Devices (SRD) operating in the frequency range25MHz to1000MHz	Adjacent Channel Power	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-1 V3.1.1(2017-02) Clause 5.11	Permanent
342.	Short Range Devices (SRD) operating in the frequency range25MHz to1000MHz	Adjacent Channel Power	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-2V3.2.1 (2018-06) Clause4.3.7	Permanent
343.	Short Range Devices (SRD) operating in the frequency range25MHz to1000MHz	FHSS Equipment	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-2V3.2.1 (2018-06) Clause4.3.10	Permanent
344.	Short Range Devices (SRD) operating in the frequency range25MHz to1000MHz	TX behavior Under Low Voltage Conditions	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-2V3.2.1 (2018-06) Clause4.3.8	Permanent
345.	Short Range Devices (SRD) operating in the	Effective Radiated Power	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-1 V3.1.1 (2017-02) Clause 5.2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	frequency range 25MHz to 1000MHz	(Conducted measurement)			
346.	Short Range Devices (SRD) operating in the frequency range 25MHz to 1000MHz	Effective Radiated Power (Conducted measurement)	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-2 V3.2.1 (2018-06) Clause 4.3.1	Permanent
347.	Short Range Devices (SRD) operating in the frequency range 25MHz to 1000MHz	Frequency error (Conducted measurement)	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-1 V3.1.1 (2017-02) Clause 5.7	Permanent
348.	Short Range Devices (SRD) operating in the frequency range 25MHz to 1000MHz	Maximum E.R.P spectral density	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-1 V3.1.1 (2017-01) Clause 5.3	Permanent
349.	Short Range Devices (SRD) operating in the frequency range 25MHz to 1000MHz	Maximum E.R.P spectral density	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-2 V3.2.1 (2018-06) Clause 4.3.2	Permanent
350.	Short Range Devices (SRD) operating in the frequency range 25MHz to 1000MHz	Occupied Bandwidth	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-2 V3.2.1 (2018-06) Clause 4.3.4	Permanent
351.	Short Range Devices (SRD) operating in the frequency range 25MHz to 1000MHz	Occupied Bandwidth (Conducted measurement)	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-1 V3.1.1 (2017-02) Clause 5.6	Permanent
352.	Short Range Devices (SRD) operating in the frequency range 25MHz to 1000MHz	Operating frequency	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-1 V3.1.1 (2017-02) Clause 5.1	Permanent
353.	Short Range Devices (SRD) operating in the frequency range 25MHz to 1000MHz	Operating frequency	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-2 V3.2.1 (2018-06) Clause 4.2.1	Permanent
354.	Short Range Devices (SRD) operating in the frequency range 25MHz to 1000MHz	Transient Power	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-1 V3.1.1 (2017-02) Clause 5.10	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
355.	Short Range Devices (SRD) operating in the frequency range 25MHz to 1000MHz	Transient Power	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-2 V3.2.1 (2018-06) Clause 4.3.6	Permanent
356.	Short Range Devices (SRD) operating in the frequency range 25MHz to 1000MHz	TX behavior under Low Voltage Conditions	Qualitative: 9KHZ-26.5GHZ	ETSI EN 300 220-1 V3.1.1 (2017-02) Clause 5.12	Permanent
357.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 61000-4-2 /EN 61000-4-2	Permanent
358.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IS 14700 (Part 4/Sec 2)	Permanent
359.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC/EN 61547	Permanent
360.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	ETSI EN 300 386 V2.2.1	Permanent
361.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	ETSI EN 301 489-17 V3.3.1(2024-09)	Permanent
362.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	ETSI EN 301 489-3 V2.3.2 (2023-01)	Permanent
363.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	ETSI EN 301 489-52 V1.3.1: (2024-01)	Permanent
364.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	ETSI EN 301 489-1 V2.2.3: (2019-11)	Permanent
365.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC/EN 60945	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
366.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 60730-2-9:2015+AMD1:2018+AMD2 CSV	Permanent
367.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 60730-1	Permanent
368.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC/ EN 60669-2-1	Permanent
369.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	Cl. 4.2 of CISPR 35	Permanent
370.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 60155:1993/AMD1:1995+ AMD2	Permanent
371.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IS 6873-2-2	Permanent
372.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 61800-1	Permanent
373.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 61326-1	Permanent
374.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 61326-2	Permanent
375.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 61326-2-3	Permanent
376.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 61326-2-4	Permanent
377.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 61326-2-5	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
378.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 61326-2-6	Permanent
379.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 62236-1	Permanent
380.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 61000-6-1	Permanent
381.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 62236-3-2	Permanent
382.	Any Electrical/Electronic Product	Electrostatic discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	Cl.5.1 of CISPR 14-2	Permanent
383.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	IS 14700 (Part 4/Sec 4)	Permanent
384.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	IEC 61000-4-4	Permanent
385.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	IEC/EN 61547	Permanent
386.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	ETSI 300 386 V2.2.1: V2.2.1 (2022-09)	Permanent
387.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	ETSI EN 301 489-17 V3.3.1: (2024-09)	Permanent
388.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	ETSI EN 301 489-3 V2.3.2 (2023-01)	Permanent
389.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	ETSI EN 301 489-50 V2.4.1 (2025-09)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
390.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	ETSI EN 301 489-52 V1.3.1 (2024-11)	Permanent
391.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	ETSI EN 301 489-1 V2.2.3 (2019-11)	Permanent
392.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	IEC 62236-1	Permanent
393.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	IEC 61000-6-1	Permanent
394.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	EN 12016	Permanent
395.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	IS 6873-2-2	Permanent
396.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	Cl.4.2.4 of CISPR 35	Permanent
397.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	Cl. 5.2 CISPR 14-2	Permanent
398.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	IEC 61000-4-5:2014+AMD1 CSV	Permanent
399.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	IEC 62236-3-2	Permanent
400.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	IS 14700 (Part 4/Sec 5)	Permanent
401.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	IEC 61547	Permanent



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402.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	ETSI 300 386 V2.2.1 (2022-09)	Permanent
403.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	ETSI EN 301 489-17 V3.3.1	Permanent
404.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	ETSI EN 301 489-3 V2.3.2 (2023-01)	Permanent
405.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	ETSI EN 301 489-50 V2.4.1 (2025-09)	Permanent
406.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	ETSI EN 301 489-52 V1.3.1 (2024-11)	Permanent
407.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	ETSI EN 301 489-1 V2.2.3 (2019-11)	Permanent
408.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	Cl.5.6 of CISPR 14-2	Permanent
409.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	Cl.4.2.5 of CISPR 35	Permanent
410.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	IEC 61000-6-1	Permanent
411.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	IEC 61000-6-2	Permanent
412.	Any Electrical/Electronic Product	Surge Immunity Test	Qualitative: up to 6kVa	IEC 62040-2:2016/ISH1	Permanent
413.	5.8 GHz fixed broadband data transmitting systems	Designation of Centre Frequencies and frequency error	Qualitative: 9KHZ-26.5GHZ	ETSI EN 302 502 V2.1.1 (2017-03), Cl no. 4.2.1 & 5.4.2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
414.	5.8 GHz fixed broadband data transmitting systems	Transmitter RF Output Power, EIRP and EIRP Spectral Density (Conductive only)	Qualitative: 9KHZ-26.5GHZ	ETSI EN 302 502 V2.1.1 (2017-03), CI no. 4.2.2 & 5.4.3	Permanent
415.	5.8 GHz fixed broadband data transmitting systems	Transmitter unwanted emissions	Qualitative: 9KHZ-26.5GHZ	ETSI EN 302 502 V2.1.1 (2017-03), CI no. 4.2.3 & 5.4.4	Permanent
416.	Any Electrical/Electronic Product	Harmonic current emissions	Qualitative: 45-66Hz, 40th harmonic	IEC 61000-3-2+AMD1+AMD2 CSV	Permanent
417.	Any Electrical/Electronic Product	Harmonic current emissions	Qualitative: 45-66Hz, 40th harmonic	IS 14700 (Part 3/Sec 2)	Permanent
418.	Any Electrical/Electronic Product	Harmonic current emissions	Qualitative: 45-66Hz, 40th harmonic	IEC 61000-3-12+AMD1CSV	Permanent
419.	Any Electrical/Electronic Product	Harmonic current emissions	Qualitative: 45-66Hz, 40th harmonic	IS 14700 (Part 3/Sec 2)	Permanent
420.	Any Electrical/Electronic Product	Voltage changes, voltage fluctuations and flicker in public low-voltage supply systems	Qualitative: 45-66Hz, 40th harmonic	IEC 61000-3-3+AMD1+AMD2 CSV	Permanent
421.	Any Electrical/Electronic Product	Voltage changes, voltage fluctuations and flicker in public low-voltage supply systems	Qualitative: 45-66Hz, 40th harmonic	IS 14700 (Part 3/Sec 3)	Permanent
422.	Any Electrical/Electronic Product	Voltage changes, voltage	Qualitative: 45-66Hz, 40th harmonic	IEC 61000-3-11	Permanent



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**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		fluctuations and flicker in public low-voltage supply systems			
423.	Any Electrical/Electronic Product	Voltage changes, voltage fluctuations and flicker in public low-voltage supply systems	Qualitative: 45-66Hz, 40th harmonic	IS 14700 (Part 4/Sec 14)	Permanent
424.	Any Electrical/Electronic Product	Electrical fast transient/burst immunity test	50AC± 4800V ± 10%, 1kHz-1200kHz ± 10%	IEC 61000-4-4	Permanent
425.	Any Electrical/Electronic Product	Surge Immunity Test	1.2/50 μs 0.5~ 6Kv ± 10%, 8 /20 μ s , 0.25~ 3kA ± 10%	IEC 61000-4-2	Permanent

#### Discipline: Electrical : Group: Electrical Indicating and Recording Instruments

426.	Electrical Equipment	Power input	0 to 50 A , / Lc: 0.1 A	Cl.4.3.2.5 IEC-61010-1 & EN-61010-1:2010/2019	Permanent
427.	Electrical Equipment	Power input	0 to 50 A , / Lc: 0.1 A	Cl. 5.1.3 IEC-61010-1 & EN-61010-1:2010/2019	Permanent
428.	Electrical Equipment	Marking and documentation	Qualitative: 0.01 sec - 3600 sec/ LC:0.01sec	Cl.5.3, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
429.	Electrical Equipment	Protection against electric shock	Qualitative	Cl.4.4.2, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
430.	Electrical Equipment	Limit values for accessible parts- Levels in normal condition & Fault condition	1mv/div - 10mv/div	Cl.6.1IEC-61010-1 & EN-61010-1:2010/2019	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
431.	Electrical Equipment	limit values for ACCESSIBLE parts	20 $\mu$ A-30 mA	Cl.6.3, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
432.	Electrical Equipment	Determination of accessible parts	Qualitative: 20 $\mu$ A-30 mA	Cl.6.2, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
433.	Electrical Equipment	TERMINALS for external circuits	1mv/div - 10mv/div	Cl.6.6.2 IEC-61010-1 & EN-61010-1:2010/2019	Permanent
434.	Electrical Equipment	PROTECTIVE CONDUCTOR TERMINAL	Qualitative	Cl.6.5.2.3 IEC-61010-1 & EN-61010-1:2010/2019	Permanent
435.	Electrical Equipment	impedance of PROTECTIVE BONDING of plug-connected equipment	0 to 6 V	Cl. 6.5.2.4 IEC-61010-1 & EN-61010-1:2010/2019	Permanent
436.	Electrical Equipment	Impedance of PROTECTIVE BONDING of PERMANENTLY CONNECTED EQUIPMENT	0 to 6 V	Cl.6.5.2.5 IEC-61010-1 & EN-61010-1:2010/2019	Permanent
437.	Electrical Equipment	transformer PROTECTIVE BONDING screen	0.1 V to 20V	Cl. 6.5.2.6 IEC-61010-1 & EN-61010-1:2010/2019	Permanent
438.	Electrical Equipment	PROTECTIVE IMPEDANCE	1-5 nm	Cl.6.5.4, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
439.	Electrical Equipment	Insulation requirements	0.01-200 nm	Cl. 6.7, 10.5.1, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
440.	Electrical Equipment	Cord anchorage test	0.01-200 nm	Cl.6.10.2.2, IEC-61010-1 & EN-61010-1:2010/2019	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
441.	Electrical Equipment	The a.c. voltage test	0.01 to 10kV	Cl.6.8.3.1, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
442.	Electrical Equipment	Drop test	Qualitative: 1 mm -5 m	Cl.8.3, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
443.	Electrical Equipment	Eliminating or reducing the source of ignition within the equipment	Qualitative: 1-300°C	Cl.9.2, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
444.	Electrical Equipment	Flammability tests	Qualitative	Cl.9.3, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
445.	Electrical Equipment	Humidity preconditioning treatment	Qualitative: Ambient - 60 °C, ambient - 95% RH/ LC:0.1 RH%	Cl.6.8.2, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
446.	Electrical Equipment	Impact test	Qualitative: 1-500 g	Cl.8.2.2, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
447.	Electrical Equipment	Mains transformers temperatures	amb- 300°C	Cl.14.6, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
448.	Electrical Equipment	Micro-wave radiation	Qualitative	Cl.12.4, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
449.	Electrical Equipment	Motor temperatures	Qualitative: Range: amb- 300°C / LC:1°C	Cl.14.2, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
450.	Electrical Equipment	Printed circuit boards	Qualitative: 0.1-10 Kv	Cl.14.8, IEC-61010-1 & EN-61010-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
451.	Electrical Equipment	Protection against hazards from fluids	Qualitative	CI.11, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
452.	Electrical Equipment	Resistance to heat of insulating material	Qualitative: Amb. To 400°C/1°C 20 lux, 100gm-180kg/100gm 100°C±2°C / 0.1°C 30sec,2 min ,8 min /0.01/1Sec, 13mm / 0.01 mm  1 to 1000°C/1°C, 1 to120sec/1sec, Dia-0.5mm, 550°C (1 to 1000°C/1°C ,0.1 to 99.9Sec/0.1sec  0.1 to 150A/0.1A )	CI.10.5.3, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
453.	Electrical Equipment	Resistance to heat of non metallic enclosures	Qualitative	CI.10.5.2, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
454.	Electrical Equipment	Circuits or components used as transient overvoltage limiting devices	Qualitative: 1.2/50µS, 2.5kV & 1.5kV /0.01kV, 0 to 3600 sec/0.01/1Sec, 1000 to 10000V//0.01kV, 100A/1mA,60sec/1sec	CI.14.8, IEC-61010-1 & EN-61010-1:2010/2019	Permanent
455.	Electrical Equipment	Stability tests	Qualitative: Range: 0-10°		Permanent



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			Range: 0 - 10° /LC:1° Range: up to 250N / LC: 1N	Cl.7.4, IEC-61010-1 & EN-61010- 1:2010/2019	
456.	Electrical Equipment	Static test	Qualitative 1.3meter height 70°C Min 750±10mm to 1000±10mm 0.01-10KV/0.01kV 0.01mm to 200.0mm /0.01mm 0 to 3600 sec/0.01/1Sec	Cl.8.2.1, IEC-61010-1 & EN-61010- 1:2010/2019	Permanent
457.	Electrical Equipment	Strength of handles	Qualitative	Cl.8.1, IEC-61010-1 & EN-61010- 1:2010/2019	Permanent
458.	Electrical Equipment	Temperature Measurements	Qualitative 1-300°C	Cl.10.1,10.2,10.3,10.4, 10 .4.1,10.4.2,10.4.3,10.5 ,10 .5.1, IEC-61010-1 & EN-61010- 1:2010/2019	Permanent
459.	Electrical Equipment	The impulse voltage withstand test	Qualitative 0.2 to 10KV 1.2 to 50 µS	6.8.3.3 IEC-61010-1 & EN-61010- 1:2010/2019	Permanent
<b>Discipline: Electronics : Group: Medical Equipment</b>					
460.	Medical Equipment	Power Input	1W to 3000W	Cl. No: 4.11 of IS 13450(Part 1)	Permanent
460.	Medical Equipment	Humidity preconditioning treatment	Qualitative: Ambient – 60°C, ambient - 95% RH/ LC:0.1 RH%	Cl. No: 5.7 of IS 13450(Part 1)	Permanent
	Medical Equipment		Qualitative:		Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
461.		Determination of Applied part and accessible part	up to 100 N, length: 0.001 mm to 25 mm and Test hook	Cl.No:5.9 of IS 13450(Part 1)	
462.	Medical Equipment	Legibility of Markings	Qualitative: 0.01 sec - 3600 sec/ LC:0.01sec 0- 500 lux	Cl. No: 7.1.2 of IS 13450(Part 1)	Permanent
463.	Medical Equipment	Durability of marking	Qualitative: 0 sec - 3600 sec	Cl No:7.1.3 of IS 13450(Part 1)	Permanent
464.	Medical Equipment	Limitation of Voltage, current or Energy	20 $\mu$ A-30 mA	Cl no: 8.4 of IS 13450(Part 1)	Permanent
465.	Medical Equipment	Protection against electrical Hazards from Medical Equipment	Qualitative Force: up to 100 N, length: 0.001 mm to 25 mm	Cl. No: 8.4.2 of IS 13450(Part 1)	Permanent
466.	Medical Equipment	Me equipment intended to be connected to a power source by plug	Qualitative: 1mv/div - 10mv/div/ LC: as per range, Test pin Range: as per instrument - as per range	Cl. No: 8.4.3 of IS 13450(Part 1)	Permanent
467.	Medical Equipment	Separation of Patient connections	Qualitative: 100 mm plate probe	Cl No: 8.5.2 of IS 13450(Part 1)	Permanent
468.	Medical Equipment	Type B applied parts	Qualitative: 0.01 KV to 10 KV, 20 $\mu$ A-30 mA	Cl No: 8.5.2.2 of IS 13450(Part 1)	Permanent
469.	Medical Equipment	Patient lead or patient cables	Qualitative	Cl No: 8.5.2.3 of IS 13450(Part 1)	Permanent
470.	Medical Equipment	Impedance and current carrying capability	0.1 V to 20V	Cl No: 8.6.4 of IS 13450(Part 1)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
471.	Medical Equipment	Leakage currents and patient auxiliary currents	20 $\mu$ A-30 mA	Cl. No: 8.7 of IS 13450(Part 1)	Permanent
472.	Medical Equipment	Dielectric strength	Qualitative 0.01 to 10kV	Cl. No: 8.8.3 of IS 13450(Part 1)	Permanent
473.	Medical Equipment	Ball pressure test	0.01-10 mm	Cl. No: 8.8.4.1 of IS 13450(Part 1)	Permanent
474.	Medical Equipment	Creepage distances and air clearances	0.01 mm-200 mm	Cl. No: 8.9 of IS 13450(Part 1)	Permanent
475.	Medical Equipment	Material groups classification (Tracking Test)	Qualitative: 0.01mm - 200mm/ LC:0.01mm, 0.001mm-25mm	Cl. No: 8.9.1.7 of IS 13450(Part 1)	Permanent
476.	Medical Equipment	Overvoltage category classification	Qualitative: 0.2KV - 8KV/ LC:0.01KV, 0.2KV - 10KV/ LC:0.01KV	Cl No: 8.9.1.9 of IS 13450 (Part 1)	Permanent
477.	Medical Equipment	Thermal cycling	Qualitative- amb - 250 $^{\circ}$ c	Cl. No: 8.9.3.4 of IS 13450(Part 1)	Permanent
478.	Medical Equipment	Cord connected Hand-held parts and Cord connected foot operated control devices	Qualitative	Cl No: 8.10.4 of IS 13450(Part 1)	Permanent
479.	Medical Equipment	Limitation of Operating Voltages	0-1000 V	Cl No: 8.10.4.1 of IS 13450(Part 1)	Permanent
480.	Medical Equipment	Insulation of internal wiring	Qualitative: amb- 300 $^{\circ}$ c / LC:1 $^{\circ}$ c	Cl No: 8.10.7 of IS 1345(Part 1)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
481.	Medical Equipment	Cord anchorage	30N-120N	Cl. No: 8.11.3.5 of IS 13450(Part 1)	Permanent
482.	Medical Equipment	Cord guards	Qualitative: 0.1A - 20A/ LC:0.1A	Cl. No: 8.11.3.6 of IS 13450(Part 1)	Permanent
483.	Medical Equipment	Protection against mechanical hazards of Medical Equipment and Medical systems (Instability hazards)	Qualitative: 0-360° / Lc:0.05°	Cl. No: 9.4 of IS 13450(Part 1)	Permanent
484.	Medical Equipment	Force for Propulsion	Qualitative: 0-1 M	Cl No: 9.4.2.4.2 of IS 13450(Part 1)	Permanent
485.	Medical Equipment	Movement over a threshold	Qualitative	Cl No: 9.4.2.4.3 of IS 13450(Part 1)	Permanent
486.	Medical Equipment	Grips and other handling devices	Qualitative: Dead Weights, 0-1 M /Lc: 0-3600 sec /Lc: 0.01/1 sec	Cl no: 9.4.4 of IS 13450(Part 1)	Permanent
487.	Medical Equipment	Audible acoustic energy	30dB-130dB	Cl. No: 9.6 of IS 13450(Part 1)	Permanent
488.	Medical Equipment	Static forces due to loading from persons	Qualitative	Cl No: 9.8.3.2 of IS 13450(Part 1)	Permanent
489.	Medical Equipment	Protection against excessive temperature and other hazards	Qualitative	Cl. No: 11.1 of IS 13450(Part 1)	Permanent
490.	Medical Equipment	ME EQUIPMENT	Qualitative	Cl.No:11.2.2 of IS 13450(Part 1)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		and ME SYSTEMS used in conjunction with OXYGEN RICH ENVIRONMENTS			
491.	Medical Equipment	Overflow on ME equipment	Qualitative: 0.01 Kv to 10 Kv	CI No: 11.6.2. of IS 13450(Part 1)	Permanent
492.	Medical Equipment	Constructional requirements for fire enclosures	Qualitative: 0 - 1000°C	Cl. No: 11.3 of IS 13450(Part 1)	Permanent
493.	Medical Equipment	Spillage	Qualitative: 0 sec - 3600 sec/ LC:0.01sec	Cl. No: 11.6.3 of IS 13450(Part 1)	Permanent
494.	Medical Equipment	ingress of protection of particulate matter into ME equipment and ME systems	Qualitative	CI No: 11.6.5 of IS 13450(Part 1)	Permanent
495.	Medical Equipment	Cleaning and disinfection	Qualitative: 0.01 Kv to 10 Kv, 20 µA-30 mA	Cl. No: 11.6.6 of IS 13450(Part 1)	Permanent
496.	Medical Equipment	Sterilization	Qualitative	Cl. No: 11.6.7 of IS 13450(Part 1)	Permanent
497.	Medical Equipment	Accuracy of controls and instruments and protection against hazardous output	Qualitative	Cl. No: 12 of IS 13450(Part 1)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
498.	Medical Equipment	Hazardous situations and fault conditions	Qualitative	Cl. No: 13 of IS 13450(Part 1)	Permanent
499.	Medical Equipment	Construction of Medical equipment (Mechanical strength)	Qualitative: 0.2N - 980N/ LC:0.2N	Cl. No: 15.3 of IS 13450(Part 1)	
500.	Medical Equipment	Push Test	Qualitative: 0.2N - 980N/ LC:0.2N Range: 0 sec - 3600 sec/ LC:0.01sec	Cl No: 15.3.2 of IS 13450(Part 1)	Permanent
501.	Medical Equipment	Impact Test	Qualitative: 500 Gram	Cl No: 15.3.3 of IS 13450(Part 1)	Permanent
502.	Medical Equipment	Drop Test	Qualitative: 1mm to 5 m	Cl No: 15.3.4 of IS 13450(Part 1)	Permanent
503.	Medical Equipment	Portable ME equipment	Qualitative: 1mm to 5 m	Cl No: 15.3.4.2 of IS 13450(Part 1)	Permanent
504.	Medical Equipment	Rough Handling Test	Qualitative	Cl No: 15.3.5 of IS 13450(Part 1)	Permanent
505.	Medical Equipment	Mould Stress Relief Test	Qualitative: amb - 250°C / LC:0.1°C	Cl No: 15.3.6 of IS 13450(Part 1)	Permanent
506.	Medical Equipment	Temperature and overload control devices	Amb to 150°C	Cl. No: 15.4.2 of IS 13450(Part 1)	Permanent
507.	Medical Equipment	Actuating parts of controls	Qualitative	Cl. No: 15.4.6 of IS 13450(Part 1)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
508.	Medical Equipment	Cord-connected hand-held and foot-operated control devices	Qualitative: 0 - 1350 N / LC: 0.2 N, 30 mm diameter, 0 sec - 3600 sec / LC :0.01 sec	Cl. No: 15.4.7 of IS 13450(Part 1)	Permanent
509.	Medical Equipment	Overheating (Transformers)	Ambient - 300°C	Cl. No: 15.5.1 of IS 13450(Part 1)	Permanent
510.	Medical Equipment	Dielectric Strength	Qualitative	Cl. No: 15.5.2 of IS 13450(Part 1)	Permanent
511.	Medical Equipment	ME systems	Qualitative	Cl. No:16 of IS 13450(Part 1)	Permanent
512.	Medical Equipment	Leakage currents	Qualitative	Cl. No: 16.6 of IS 13450(Part 1)	Permanent
513.	Medical Equipment	Protection against MECHANICAL HAZARDS	Qualitative	Cl. No:16.7 of IS 13450(Part 1)	Permanent
514.	Medical Equipment	Interruption of the power supply to parts of an ME SYSTEM	Qualitative	Cl.No:16.8 of IS 13450(Part 1)	Permanent
515.	Medical Equipment	ME SYSTEM connections and wiring	Qualitative	Cl.No:16.9 of IS 13450(Part 1)	Permanent
<b>Discipline: Electronics : Group: IT Equipment</b>					
516.	IT PRODUCTS	Power Interface	0.0 -30Vdc/as per instrument ,10A/0.01A 0.1V-300V/0.1V 0-30A/ 0.01A	IS 13252 (Part 1): 2010/ IEC 60950-1 Cl. 1.6	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0-500VAC/0.1V, 0-30A/0.1A  0.001-150V/0.001, 0.001-240A/0.001		
517.	IT PRODUCTS	Marking and Instructions	Visual  15 sec /0.01/1Sec  n-hexane, distilled water, cheese cloth	IS 13252 (Part 1): 2010/IEC 60950-1  Cl.1.7	Permanent
518.	IT PRODUCTS	Protection from electric shock and energy hazards	Test Probe B, Test Probe 2C,  Test probe 13  0.01 mm to 200 mm / 0.01 mm  0.1-60V/0.01V,  0.01-10kV/0.01kV	IS 13252 (Part 1): 2010/IEC 60950-1  Cl. 2.1	Permanent
519.	IT PRODUCTS	SELV Circuits	0.1V-300V/0.1V  40-65Hz/0.01Hz  0.1-60V/0.01V  0.001-150V/0.001, 0.001-240A/0.001  60mV-1000V/0.1mV to1  600µA-20A/0.1µA to0.01A	IS 13252 (Part 1): 2010/IEC 60950-1  Cl. 2.2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
520.	IT PRODUCTS	TNV circuits	0.01-10kV/0.01kV 1-300V /1V, 0-30A/ 0.01A	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 2.3	Permanent
521.	IT PRODUCTS	Limited current circuit	0.1V-300V/0.1V 40-65Hz/0.01Hz 2Kohm non inductive resistor	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 2.4	Permanent
522.	IT PRODUCTS	Limited power sources	0.1V-300V/0.1V 40-65Hz/0.01Hz 0.001-150V/0.001, 0.001-240A/0.001	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 2.5	Permanent
523.	IT PRODUCTS	Provisions for earthing and bonding	0.1-20V/0.1V, 0.1-50A/0.1A 0.01 mm to 200 mm / 0.01 mm 0.01 to 25.00mm/0.01mm 0.01 to 3600 sec/0.01/1sec	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 2.6	Permanent
524.	IT PRODUCTS	Overcurrent and earth fault protection in primary circuits	Qualitative Test	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 2.7	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
525.	IT PRODUCTS	Safety interlock	10000 cycles, 100000 Cycles 0.01 to 3600 sec/0.01/1sec 0.01 to100 V/0.01V Test Probe B 0.01-10kV/0.01kV	IS 13252 (Part 1):  2010/IEC 60950-1  Cl. 2.8	Permanent
526.	IT PRODUCTS	Electrical Insulation	40±2°C/0.1°C, 93±3% RH/1%RH 0.01 to 3600 sec /0.01/1Sec	IS 13252 (Part 1):  2010/IEC 60950-1  Cl. 2.9	Permanent
527.	IT PRODUCTS	Clearances, creepage distances and distances through insulation	Test Probe B  1.2/50µS, 2.5kV/0.01kV  10/700µS, 0.5 to 1.5kV/0.01kV  0.04 to 1.00 mm  0.01 mm to 200 mm / 0.01 mm  40gm to 300 Kgs/40gm  1 to 600V/1 V, 0.001 to 5A/0.001A(-20 to 100 °C) & 40%RH to 99%RH/0.1°C,1%RH	IS 13252 (Part 1):  2010/IEC 60950-1  Cl. 2.10	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			25±2DEG C for 1 h, 0±2DEG C for 2 h  1 to 1000 mm /1 mm		
528.	IT PRODUCTS	Wiring, connections and supply(General)	0.1°C to 300°C/1°C 0.01-10kV/0.01kV 0.01 to 3600 sec /0.01/1Sec 0.01mm to 200.0mm/0.01mm 1mm to 5M / 1mm 10N/1N0.5 to 1000 mm / 0.5/1 mm	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 3.1	Permanent
529.	IT PRODUCTS	Connection to a Mains supply	1V to 300V	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 3.2	Permanent
530.	IT PRODUCTS	Wiring terminals for connection of external conductors	0.1V-300V/0.1V 40-65Hz/0.01Hz 1-300°C/1°C 0.01mm to 200.0mm /0.01mm	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 3.3	Permanent
531.	IT PRODUCTS	Disconnection from the Mains supply	Qualitative Test	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 3.4	Permanent
532.	IT PRODUCTS	Interconnection of equipment	Qualitative Test	IS 13252 (Part 1): 2010/IEC 60950-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
				Cl. 3.5	
533.	IT PRODUCTS	Stability	0.5 to 1000 mm / 0.5/1 mm 1° to 60° 40gm -300kg/40gm 1000N/1N 10° with 360° rotation	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 4.1	Permanent
534.	IT PRODUCTS	Mechanical strength	42.4 Vpeak /0.01V 10N,30N/1N 250N,800N/1N 500gm, 50mm dia & 1.3meter height 70°C Min/0.1°C 750±10mm to 1000±10mm 0.01-10KV/0.01kV 0.01mm to 200.0mm /0.01mm 0.01 to 3600 sec/0.01/1Sec	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 4.2	Permanent
535.	IT PRODUCTS	Design & construction	0.01mm to 200.0mm /0.01mm 0.01 to 3600 sec/0.01/1Sec 15N,20N,30N,50N/1 N 0.25Nm Max 0 to 300 mm 0.5 to 100A / 0.1A	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 4.3	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0.01-10KV/0.01kV 250ml 1 to 300°C/1°C		
536.	IT PRODUCTS	Protection against hazardous moving parts	upto 30N/1N Test Probe B	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 4.4	Permanent
537.	IT PRODUCTS	Thermal requirements	0.1 to 30V /as per instrument ,0.01 to 20A / as per instrument 0.1V-300V /0.1V , 40-65Hz 0.01Hz 1-300V AC/1V, 0.1-50A/0.1A (0.001 to 150 V/0.001V, 0.001 to 120A/0.001A) 1-300°C/1°C 0 to 180mm H,0 to 140mm V/0.01mm Amb. To 150°C/0.1°C	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 4.5	Permanent
538.	IT PRODUCTS	Openings in enclosures	0.04 to 1.00 mm/N/A Amb. To 150°C / 0.1°C 0 to 3600 sec/0.01/1Sec 0.01 mm to 200mm / 0.01 mm	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 4.6	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			Amb. To 400°C/1°C		
539.	IT PRODUCTS	Resistance to fire	0.01mm - 300mm,	IS 13252 : Part 1 :2010, A1+A2 Cl. 4.7	Permanent
540.	IT PRODUCTS	Touch current and protective conductor current	0.1 µA-999.9 µA, 1000 µA-9999 µA, 10.00 to 30.00mA, 0.1 to 300 V  0.5 to 999.9 Sec. Metal foil 1-300V AC/1V, 0.1-30A/0.1A  0.1V-300V /0.1V, 40-65Hz 0.01Hz	IS 13252 (Part 1):  2010/IEC 60950-1  Cl. 5.1	Permanent
541.	IT PRODUCTS	Electric strength	1000 to 10000V/0.01kV, 100mA/1mA,60sec/1 sec  1 min/ 0.01/1Sec  0 to 3600 sec/0.01/1Sec	IS 13252 (Part 1):  2010/IEC 60950-1  Cl. 5.2	
542.	IT PRODUCTS	Abnormal operating and fault condition	1- 300°C/1°C  0.01 to 3600 sec/0.01/1Sec  0.1 to 30V /as per instrument ,0.01 to 20A / as per instrument  0.1V-300V /0.1V , 40-65Hz 0.01Hz	IS 13252 (Part 1):  2010/IEC 60950-1  Cl. 5.3	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			(0.001 to 150 V/0.001V,0.001 to 120A/0.001A) (1000 to 10000V/0.01kV, 100mA/1mA,60sec/1 sec) 1 min/ 0.01/1Sec		
543.	IT PRODUCTS	Connection of telecommunication networks	0 to 3600 sec/0.01/1Sec (1000 to 10000V/0.01kV, 100mA/1mA,60sec/1 sec) 1.2/50 $\mu$ S, 2.5kV & 1.5kV /0.01kV 500Vdc, 2M $\Omega$ and above	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 6.0	Permanent
544.	IT PRODUCTS	Connection to cable distribution system	1.2/50 $\mu$ S, 2.5kV & 1.5kV /0.01kV 0 to 3600 sec/0.01/1Sec (1000 to 3000V//0.01kV, 100mA/1mA,60sec/1 sec) 10 KV /0.01kV 10/700 $\mu$ S, 0.01 to 2.5kV/0.01kV	IS 13252 (Part 1): 2010/IEC 60950-1 Cl. 7.0	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
545.	Mobile Phone Handsets: Indian Language Support for Mobile Phones-Specific Requirements	Requirements	Visual	IS 16333-3 Cl.4	Permanent
546.	Mobile Phone Handsets: Indian Language Support for Mobile Phones-Specific Requirements	Inputting and display of all the characters in English, Hindi and Additional (Third) Indian Official Language	Qualitative	IS 16333-3 Cl.5.1	Permanent
547.	Mobile Phone Handsets: Indian Language Support for Mobile Phones-Specific Requirements	Message Readability (22 Indian Official Languages)	Qualitative	IS 16333-3 :2022 Cl.5.2	Permanent
548.	Mobile Phone Handsets: Indian Language Support for Mobile Phones-Specific Requirements	Marking	Qualitative	Cl.6 of IS 16333-3 :2022	
549.	Audio/Video and IT Equipment	General	Qualitative	IS/IEC 62368 Part 1 Clause No. 4.1	Permanent
550.	Audio/Video and IT Equipment	Energy Source Classifications	Qualitative	IEC 62368-1 (Clause 4.2)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
551.	Audio/Video and IT Equipment	Protection Against Energy Sources	Qualitative	IEC 62368-1 (Clause 4.3)	Permanent
552.	Audio/Video and IT Equipment	Safeguards	Qualitative: 1-10N / 1 N up to 250N / 1N Dia. 50mm free fall apparatus 70°C/ 0.1°C	IEC 62368-1 (Clause 4.4)	Permanent
553.	Audio/Video and IT Equipment	Fixing of Conductors and conductive part	0.01mm to 200.0mm/ 0.01mm 1-10N/ 1 N	IEC 62368-1 (Clause 4.6)	Permanent
554.	Audio/Video and IT Equipment	Equipment for direct insertion in to mains socket-outlets	0.5-300 mm/ 0.5/1 mm 100gm 0.01mm to 150.0mm/ 0.01mm	IEC 62368-1 (Clause 4.7)	Permanent
555.	Audio/Video and IT Equipment	Compliance criteria (Force test)	70°C/ 0.1°C 60cN.m / 0.1cNm 0.1 Nm to 1.5 Nm / 0.5Nm 5-35Nm/ 1Nm Dia. 50mm free fall apparatus up to 335N / 1N 0 to 3600 sec/ 0.01/1Sec Test Hook up to 20N/ 1 N	IEC 62368-1 (Clause 4.8)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
556.	Audio/Video and IT Equipment	Likelihood of fire or shock due to entry of conductive object	1mm to 5M /1mm -20 to 100 °C & 40%RH to 99%RH / 0.1°C/1%RH Test Probe C 0.01mm to 150.0mm/ 0.01mm 1°-180° / LC : 1°	IEC 62368-1 (Clause 4.9)	Permanent
557.	Audio/Video and IT Equipment	Components Requirements	Qualitative	IEC 62368-1 (Clause 4.10)	Permanent
558.	Audio/Video and IT Equipment	Electrically-caused injury	Qualitative	IEC 62368-1 (Clause 5.1)	Permanent
559.	Audio/Video and IT Equipment	Classification and limits of electrical energy sources	0.1 µA-9999 µA	IEC 62368-1 (Clause 5.2)	Permanent
560.	Audio/Video and IT Equipment	Protection against electrical energy sources	0.01mm to 200.0mm/ 0.01mm up to 30N/ 0.1 N Test probe 11 0.1-30V , 0.01-10A / 0.1V , 0.1V-300V / 0.1V; 40-65Hz / 0.01Hz, 1 to 300V/ 1V Test Probe D (0.01 to 10.0kV/ 0.01kV 1 to 300mA / 1 mA	IEC 62368-1 (Clause 5.3)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			1sec to 99Min / LC:1 s )		
561.	Audio/Video and IT Equipment	Insulation materials and requirements	Visual , (amb to 60 °C) & 40%RH to 99%RH/ 0.1°C/1%RH 0.01mm to 200.0mm/ 0.01mm (0.01 to 10.0kV/ 0.01kV 1 to 300mA / 1 mA 1sec to 99Min / 1 s ) 0.1-30V ,0.01-10A / 0.1V , 0.01A 0.10-32Vdc ,3.2A / 0.10V ,0.01A 0.1V-300V / 0.1V; 40-65Hz / 0.01Hz 1 - 300°C / 1°C 0.01 to 10 mm/ 0.01mm 0.01-3600 sec / 0.01/1Sec 150N;Dia. 100mm±0.5mm; Dia. 50mm±0.5mm 0.01-10KV /0.1KV 0.01-25mm/ 0.01mm	IS/IEC 62368 Part 1  Clause No. 5.4	Permanent
562.	Audio/Video and IT Equipment	Components as safeguards	0.1-30V , 0.01-10A / 0.1V , 0.01A	IS/IEC 62368 Part 1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0.1V-300V / 0.1V; 40-65Hz / 0.01Hz  0.1 to 50A, 1 to 300V/ 0.1A, 1V  0-150V, 0-120A/ 0.001V , 0.001A  0.01 to 10.0kV/ 0.01kV  1 to 300mA /1 mA  1sec to 99Min/1 s amb to 60 °C & amb %RH to 95%RH / 0.1°C/1%RH  1 to 150 °C/ LC: 1°C  0.01mm to 200.0mm/ 0.01mm  0.1 to 10kV/ 0.1KV	Clause No. 5.5	
563.	Audio/Video and IT Equipment	Protective conductor	0.01 to 3600 sec / 0.01/1Sec  0.1 to 50A / 0.1A; 0.1 to 20V	IS/IEC 62368 Part 1  Clause No. 5.6	Permanent
564.	Audio/Video and IT Equipment	Prospective touch voltage, touch current and protective conductor current	0.1 µA-9999µA/ 0.1/1µA  0.1V-300V / 0.1V;  40-65Hz / 0.01Hz  0.1 to 50A, 1 to 300V/ 0.1A, 1V  0.001 to 150V, 0.001 to 120A /0.001V , 0.001A	IS/IEC 62368 Part 1  Clause No. 5.7	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0.1-30V 0.01-10A/ 0.1V ,0.01A  0.1V-300V / 0.1V; 40-65Hz / 0.01Hz  0.1 to 50A, 1 to 300V/ 0.1A, 1V		
565.	Audio/Video and IT Equipment	Backfeed safeguard in battery backed up supplies	Visual	IS/IEC 62368 Part 1 Clause No. 5.8	Permanent
566.	Audio/Video and IT Equipment	General	Visual	IS/IEC 62368 Part 1 Clause No. 6.1	Permanent
567.	Audio/Video and IT Equipment	Classification of power sources(PS) and potential ignition sources(PIS)	0.01A to 50 A	IS/IEC 62368 Part 1 Clause No. 6.2	Permanent
568.	Audio/Video and IT Equipment	Safeguards against fire under normal operating conditions and abnormal operating conditions	(550°C/ 1°C; upto 30 Sec/ 0.1sec; 0.1 to 150A / 0.1A; upto 7mm / 1mm)  0.01-25mm/0.01mm	IS/IEC 62368 Part 1  Clause No. 6.3	Permanent
569.	Audio/Video and IT Equipment	Safeguards against fire under single fault conditions	0.1-30V ,0.01-10A / 0.1V , 0.01A  0.1V-300V / 0.1V; : 40-65Hz / 0.01Hz  1 to 300°C/ LC: 1°C	IS/IEC 62368 Part 1  Clause No. 6.4	Permanent



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			550°C/ 1°C; upto 30 Sec/ 0.1sec; 0.1 to 150A /LC: 0.1A;Range: upto 7mm /LC: 1mm 0.01 to 3600 sec / 0.01/1Sec		
570.	Audio/Video and IT Equipment	Internal and external wiring	0.1-30V , 0.01-10A / 0.1V 0.01A 0.1V-300V / 0.1V; 40-65Hz / 0.01Hz 0.01 to 3600 sec /LC: 0.01/1Sec	IS/IEC 62368 Part 1 Clause No. 6.5	Permanent
571.	Audio/Video and IT Equipment	Safeguards against fire due to the connection of additional equipment	Visual	IS/IEC 62368 Part 1 Clause No. 6.6	Permanent
572.	Audio/Video and IT Equipment	Injury caused by hazardous substances	Visual	IS/IEC 62368 Part 1 Clause No.7	Permanent
573.	Audio/Video and IT Equipment	General	Visual	IS/IEC 62368 Part 1 Clause No. 8.1	
574.	Audio/Video and IT Equipment	Mechanical energy source classifications	2.5RPM to 99999RPM, 0.1/1 Rpm 0.1-0.1-30V, 0.01-10A / 0.1V 0.01A 0.01mm to 200.0mm/ 0.01mm	IS/IEC 62368 Part 1 Clause No. 8.2	Permanent



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**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0.04kg to 300kg / 0.04Kg		
575.	Audio/Video and IT Equipment	Safeguards against mechanical energy sources	Visual	IS/IEC 62368 Part 1 Clause No. 8.3	Permanent
576.	Audio/Video and IT Equipment	Safeguards against parts with sharp edges and corners	Visual upto 30N/LC:1 N Test Probe B ,Test probe 2C , Test Probe D , Wedge Probe 0.5 to 1000 mm / 0.5/1 mm 0.04kg to 300kg / 0.04Kg	IS/IEC 62368 Part 1 Clause No. 8.4	Permanent
577.	Audio/Video and IT Equipment	Safeguards against moving parts	Visual, upto 30N/ LC:1 N Test Probe B ,Test probe 2C , Test Probe D , Wedge Probe 0.04kg to 300kg / 0.04Kg  1 to 99999 count / 1 Count 0.01 to 10.0kV/ 0.01kV 1 to 300mA / 1 mA	IS/IEC 62368 Part 1 Clause No. 8.5	Permanent



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**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			1sec to 99Min / 1 s 1 to 300°C/ 1°C 0.01mm to 200.0mm / 0.01mm		
578.	Audio/Video and IT Equipment	Requirements	Visual 70°C/ LC: 0.1°C	IS/IEC 62368 Part 1 Clause No. 8.6.1	Permanent
579.	Audio/Video and IT Equipment	Static Stability	1°-10° 0 - 10° /LC:1° upto 1000N / LC: 1N	IS/IEC 62368 Part 1 Clause No. 8.6.2	Permanent
580.	Audio/Video and IT Equipment	Relocation Stability	1°-10° 1°-10° /LC:1°	IS/IEC 62368 Part 1 Clause No. 8.6.3	Permanent
581.	Audio/Video and IT Equipment	Glass slide test	1°-10° 1°-10° /LC:1°	IS/IEC 62368 Part 1 Clause No. 8.6.4	Permanent
582.	Audio/Video and IT Equipment	Horizontal force test and compliance criteria	up to 15° 1°-10° /LC:1° 250N, 1000N /LC: 1N	IS/IEC 62368 Part 1 Clause No. 8.6.5	Permanent
583.	Audio/Video and IT Equipment	(Equipment mounted to a wall, ceiling or other structure)	0.01 to 3600 sec / 0.01/1Sec 0.01mm to 200.0mm/ 0.01mm 0.04kg to 300kg / 0.04Kg	IS/IEC 62368 Part 1 Clause No. 8.7	Permanent
584.	Audio/Video and IT Equipment	Handle strength	0.01 to 3600 sec / LC: 0.01/1Sec 250N, 1000N LC: 1N	IS/IEC 62368 Part 1 Clause No. 8.8	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0.04kg to 300kg / 0.04Kg		
585.	Audio/Video and IT Equipment	Wheels or casters attachment requirements	0.04kg to 300kg / 0.04Kg	IS/IEC 62368 Part 1 Clause No. 8.9	Permanent
586.	Audio/Video and IT Equipment	Carts, stands, and similar carriers	0.04kg to 300kg / 0.04Kg  1mm to 5M LC: 1mm up to 15° 1°- 10° LC:1° 250N, 100N LC: 1N 0.01 to 3600 sec / LC: 0.01/1Sec 70°C, LC: 0.1°C	IS/IEC 62368 Part 1  Clause No. 8.10	Permanent
587.	Audio/Video and IT Equipment	Carts, stands, and similar carriers	0.04kg to 300kg / 0.04Kg  250N, 800N / 1N 0.01 to 3600 sec / 0.01/1Sec up to 20N /1 N 1mm to 5M / 1mm	IS/IEC 62368 Part 1  Clause No. 8.11	Permanent
588.	Audio/Video and IT Equipment	Telescoping or rod antennas	0.01mm to 200.0mm / 0.01mm	IS/IEC 62368 Part 1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0.01 to 3600 sec / 0.01/1Sec up to 20N /1 N	Clause No. 8.12	
589.	Audio/Video and IT Equipment	General	Visual	IS/IEC 62368 Part 1 Clause No. 9.1	Permanent
590.	Audio/Video and IT Equipment	Thermal energy source classifications	Visual	IS/IEC 62368 Part 1 Clause No. 9.2	Permanent
591.	Audio/Video and IT Equipment	Touch temperature limits	0.1-30V 0.01-10A / 0.1V 0.01A 0.1V-300V / 0.1V; 40-65Hz / 0.01Hz 1°C to 300°C LC: 1°C	IS/IEC 62368 Part 1 Clause No. 9.3	Permanent
592.	Audio/Video and IT Equipment	Safeguards against thermal energy sources	Visual	IS/IEC 62368 Part 1 Clause No. 9.4	Permanent
593.	Audio/Video and IT Equipment	Requirements for safeguards	1°C to 300°C	IS/IEC 62368 Part 1 Clause No. 9.5	Permanent
594.	Audio/Video and IT Equipment	(Requirements for wireless power transmitters)	0.1-30V/0.1V 0.01-10A / 0.01A 0.1V-300V / 0.1V; 40-65Hz / 0.01Hz 1°C to 300°C LC: 1°C	IS/IEC 62368 Part 1 Clause No. 9.6	
595.	Audio/Video and IT Equipment	Handle strength	0.01 to 3600 sec / LC: 0.01/1Sec 250N, 100N LC: 1N	IS/IEC 62368 Part 1 Clause No. 8.8	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0.04kg to 300kg / 0.04Kg		
596.	Note Sorting Machines	Input test / Power input and current	0.1A-30A	Annex B.2 of IS 18663	Permanent
597.	Note Sorting Machines	Heating/ Thermal burn injury	Qualitative: 0.1V to 300V, 0.1Vdc - 30Vdc 1°C - 300°C,	Cl. 9 of IS 18663	Permanent
598.	Note Sorting Machines	Maximum operating temperature (Temperature measurement)	1°C - 300°C	Cl. 5.4.1.4 of IS 18663	Permanent
599.	Note Sorting Machines	RMS working voltage	1V to 1000V	Cl. 5.4.1.8.2 of IS 18663	Permanent
600.	Note Sorting Machines	Insulating surfaces	Qualitative: 0.01mm - 200mm	Cl. 5.4.1.9 of IS 18663	Permanent
601.	Note Sorting Machines	Vicat test	0.1°C - 300°C	Cl. 5.4.1.10.2 of IS 18663	Permanent
602.	Note Sorting Machines	Ball pressure test	0.01mm to 200mm	Cl. 5.4.1.10.3 of IS 18663	Permanent
603.	Note Sorting Machines	Impulse test	Qualitative: 0.01KV - 10KV	Cl. 5.4.2.4 of IS 18663	Permanent
604.	Note Sorting Machines	Clearance, creepage distance and solid insulation	0.01mm-200mm	Cl. 5.4.2, 5.4.3, 5.4.4 of IS 18663	
605.	Note Sorting Machines	Humidity conditioning	Qualitative: 0.01KV - 10KV, amb. - 95% RH	Cl. 5.4.8 of IS 18663	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
606.	Note Sorting Machines	Leakage current / Prospective touch voltage, touch current and protective conductor current	0.1uA – 9999uA	Cl. 5.7 of IS 18663	Permanent
607.	Note Sorting Machines	Electric strength test / electric strength at operating temperature	Qualitative: 0.01KV - 10KV, 0 - 120 sec	Cl. 5.4.9 of IS 18663	Permanent
608.	Note Sorting Machines	Provision for earthing / Resistance of the protective bonding system	0.1V- 20V	Cl. 5.6.6 of IS 18663	Permanent
609.	Note Sorting Machines	Speed Test	Qualitative	Cl. 6.2.1 of IS 18663	Permanent
610.	Note Sorting Machines	Authenticity Test	Qualitative	Cl. 6.2.2 of IS 18663	Permanent
611.	Note Sorting Machines	Fitness Test	Qualitative	Cl. 6.2.3 of IS 18663	Permanent
612.	Note Sorting Machines	Repeatability Test	Qualitative	Cl. 6.2.4 of IS 18663	Permanent
613.	Note Sorting Machines	Stress Test	Qualitative	Cl. 6.2.5 of IS 18663	Permanent
614.	Note Sorting Machines	Piece Counting Test	Qualitative	Cl. 6.2.6 of IS 18663	Permanent
615.	Note Sorting Machines	Values Counting Test	Qualitative	Cl. 6.2.7 of IS 18663	Permanent
616.	Desktop, Laptop, Computer Notebook Computer, GPU, Computer Display, Discrete Graphics processing unit, Integrated Graphics,	Power Measurement - Off Mode -Sleep Mode -Idle State, Active State, Typical	Quantitative: 0 to 4000W, 0 to 99999MWh	IEC 62301 Ed 2 BEE Schedule 14	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	External Power Supply, Internal	Energy Consumption			
617.	Desktop, Laptop, Computer Notebook Computer, GPU, Computer Display, Discrete Graphics processing unit, Integrated Graphics, External Power Supply, Internal	Standby mode power consumption	Quantitative: 0 to 4000W, 0 to 99999MWh	IEC 62301 Ed 2 BEE Schedule 14	Permanent
618.	Laptop desktop Computer/Notebook computer external Power Adapter	Standby mode power consumption	Quantitative: 0 to 4000W, 0 to 99999MWh	BEE Schedule 14, IEC 62301 Ed 2	Permanent
619.	Laptop desktop Computer/Notebook computer external Power Adapter	Standby mode power consumption	Quantitative: 0 to 4000W, 0 to 99999MWh	BEE Schedule 14, IEC 62301 Ed 2	Permanent
620.	Office Equipment (Printers, Scanners, Copiers, Fax Machines and Multifunction Devices)	Power measurement in on mode, off mode, sleep mode, Typical Energy Consumption	Quantitative: 0 to 4000W, 0 to 99999MWh	Cl.3.8, 3.5 IEC 62301 Ed 2 BEE Schedule 16	Permanent
621.	Office Equipment (Printers, Scanners, Copiers, Fax Machines and Multifunction Devices)	Standby Mode Power Consumption	Quantitative: 0 to 4000W, 0 to 99999MWh	Cl.3.6 IEC 62301 Ed 2: BEE Schedule 16	Permanent
622.	LED Display, LED TV, Colour TV, Ultra- High Definition (UHD) TV	Luminance, Area Calculation	Quantitative: 0-9.999/10-99.99/100-999.9cd/m <sup>2</sup> , 0.001/0.01/1cd/m <sup>2</sup> 1lux=1cd/m <sup>2</sup>	Cl. 6.5, IEC 62087-1, Cl. 6.5, IEC 62087-3, schedule 26 & schedule 11	Permanent
623.	LED Display, LED TV, Colour TV, Ultra- High Definition (UHD) TV	Luminance, AEC ENERGY	Quantitative: 0-9.999/10-99.99/100-999.9cd/m <sup>2</sup> ,	Cl.5 of BEE Schedule 11 & Cl. 4 of BEE	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		CONSUMPTION	0.001/0.01/1cd/m2 1lux=1cd/m2	Schedule 26, Cl. 5.1.7, IEC 62087-3	
624.	LED Display, LED TV, Colour TV, Ultra- High Definition (UHD) TV	Luminance	Quantitative: 0-9.999/10-99.99/100-999.9cd/m2, 0.001/0.01/1cd/m2 1lux=1cd/m2	Cl.5 of BEE Schedule 11 & Cl. 4 of BEE Schedule 26, Cl. 6.5, IEC 62087-3	Permanent
625.	LED Display, LED TV, Colour TV, Ultra- High Definition (UHD) TV	Measurement of power consumption in, partial on mode	Quantitative: 0 to 4000W, 0 to 99999MWh	Cl.5 of BEE Schedule 11 & Cl. 4 of BEE Schedule 26, Cl. 6.6 of IEC 62087-3	Permanent
626.	LED Display, LED TV, Colour TV, Ultra- High Definition (UHD) TV	Measurement of power consumption in Off mode	Quantitative: 0 to 4000W, 0 to 99999MWh	Cl.5 of BEE Schedule 11 & Cl. 4 of BEE Schedule 26, Cl. 6.7 of IEC 62087-3:2023	Permanent
627.	LED Display, LED TV, Colour TV, Ultra- High Definition (UHD) TV	On mode power consumption	Quantitative: 0 to 4000W, 0 to 99999MWh	Cl. 6.4, IEC 62087-3:, BEE Schedule 11, BEE Schedule 26	Permanent
628.	LED Display, LED TV, Colour TV, Ultra- High Definition (UHD) TV	On (average) mode testing using dynamic broadcast - content video signal	Quantitative: 0 to 4000W, 0 to 99999MWh	BEE Schedule 11, Cl. 11.6, IEC 62087-3:	Permanent
629.	LED Display, LED TV, Colour TV, Ultra- High Definition (UHD) TV	On mode power consumption	Quantitative: 0 to 4000W, 0 to 99999MWh	Cl.5 of BEE Schedule 11 & Cl. 4 of BEE Schedule 26, Cl. 6.4, IEC 62087-1	Permanent
630.	LED Display, LED TV, Colour TV, Ultra- High Definition (UHD) TV	Standby mode power consumption, standby passive mode	Quantitative: 0 to 4000W	Cl.5 of BEE Schedule 11 & Cl. 4 of BEE Schedule 26, Cl. 5.3 IEC 62301 Ed 2	Permanent
631.	LED Display, LED TV, Colour TV, Ultra- High Definition (UHD) TV	Standby mode power consumption, standby active low mode	Quantitative: 0 to 4000W	Cl.5 of BEE Schedule 11 & Cl. 4 of BEE Schedule 26, Cl. 5.3 IEC 62301 Ed 2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
632.	AC to DC, DC to DC External Power Adapter	Energy Efficiency	Quantitative: 0 to 4000W, 0 to 99999MWh	IEC 62301Ed. 2	Permanent
<b>Discipline: Electronics : Group: Domestic Electronic Appliances &amp; Accessories/ Audio Equipment</b>					
633.	Audio, Video and Electronic Products	Marking and Instruction	n hexane, Distilled Water, Chees Cloth 15s/0.01/1sec 1-300V AC/1V, 10A/0.1A	IS 616 / IEC 60065 Cl.5	Permanent
634.	Audio, Video and Electronic Products	Heating under normal operating conditions	1 to 150°C/1°C 1-300V AC/1V, 10A/0.1A 0.001 to 150V/0.001V , 0.001 to 120A/0.001A Test Corner (Up to 85 inch) 0.001-600 V AC /DC , 0.01-10A ac/dc Black & white color pattern CD 0.1- 150°C/0.1°C , (amb. to 300°C/1°C, 0 to 10mm/0.01mm)	IS 616 / IEC 60065 Cl.7	Permanent
635.	Audio, Video and Electronic Products	Constructional requirements with regard to protection	Test probe set of Probe 11, 13, 18 & 19 1500V to 3000 V /0.01kV	IS 616 / IEC 60065 Cl.8	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		against electric shock	40±2°C /0.1°C, 93±3% RH/0.1%RH 0.01 to 3600 sec/0.01/1sec 1-300V /1V, 0.1 to 50A/0.1A 4MΩ and above 0.01 to 10kV/0.01kV 0.01 mm to 200 mm / 0.01 mm  Duration 30 Min, Amplitude- 0.35mm, Frequency Range- 10-55 Hz, Sweep Rate - approximately 1 octave/min  2N,20N,50N/1N & 40%RH to 99%RH/0.1°C,1%RH		
636.	Audio, Video and Electronic Products	Electric shock hazard under normal operating conditions	Not more than 3.5mA  Test probe B,18,19,13 ,Test pin, Test probe D, Test probe C  1 to 1000N/1N	IS 616 / IEC 60065  Cl.9	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			250±10N, 100±10N/1N Test Probe 11, Test hook		
637.	Audio, Video and Electronic Products	Insulation requirements	0.5 to 10kV/0.01kV 40±2°C/0.1°C, 93±3% RH/0.1%RH 0.01-10kV/0.01kV 0.01 to 3600 sec/0.01/1sec 4MΩ and above Metal Foil	IS 616 / IEC 60065 CI.10	Permanent
638.	Audio, Video and Electronic Products	Fault Conditions	0.001-600 V AC /DC , 0.01-10A ac/dc 0.1 to 9999µA/0.1/1µA 20N & 3N/1N Test Probe B,13,18,19 1 to 150°C/1°C 1-300V AC/1V, 0.1-30A/0.1A (Up to 85 inch)	IS 616 / IEC 60065 CI.11	Permanent
639.	Audio, Video and Electronic Products	Mechanical strength	50 times fall, Height 5cm Duration 30 Min, Amplitude- 0.35mm, Frequency Range- 10-55 Hz, Sweep Rate - approximately 1 octave/min	IS 616 / IEC 60065 CI.12	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			500 g, 50mm dia 0.5 J 1500-3000V/0.01kV 1.0 m(free fall apparatus) 70°C Min/1°C 0.4Nm to 2Nm/0.001Nm 50 Times/25 Times(1 to 999999/1) 20N , 50N/1N 100 times manually(Antenna coaxial switch) 5-35Nm / 2Nm 25-135Nm / 5 Nm 0.01 to 3600 sec/0.01/1sec 2J/ 1J test hook , Test probe 11 Amb. to 150°C / 0.1°C 0.1 Nm to 1.5 Nm / 0.1 Nm 0.01kn to 60 kn / 0.01kn		
640.	Audio, Video and Electronic Products	Clearances and Creepage Distances	0.01 mm to 200 mm / 0.01 mm 0.01 to 25 mm / 0.01mm 1 to 600V/1V, 0.001 to 5 A/0.001A	IS 616 / IEC 60065  Cl.13	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			1-300V AC/1V, 0.1-50A/0.1A Test probe B,11 0.5 to 10kV/0.01kV(10/700 μS) 0.5 to 10kV/0.01kV(1.2/50μS) 1500-3000V/0.01KV (0 ±2) °C , (25±2)°C /0.1°C 0.01 to 3600 sec/0.01/1sec		
641.	Audio, Video and Electronic Products	Components	Qualitative	Cl.14, of IS 616	Permanent
642.	Audio, Video and Electronic Products	Terminals	0.01 to 3600 sec/0.01/1sec 25A / 0.1A , 12 V / 0.1V 0.01 to 25 mm / 0.01mm 0.01 mm to 200 mm / 0.01 mm 1- 1000 N/1N 0.25Nm Max,100gm 0.4Nm to 2Nm/0.001Nm (70°C ±2) °C 1.0 m (free fall apparatus)	IS 616 / IEC 60065 Cl.15	Permanent
643.	Audio, Video and Electronic Products	External flexible cords	0.01 mm to 200 mm / 0.01 mm	IS 616 / IEC 60065	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			0.001 to 300 kg / 0.001g 1500-3000V/0.01kV	Cl.16	
645.	Audio, Video and Electronic Products	Electrical connections and mechanical fixings	0.1 Nm to 1.5 Nm/0.1Nm 2N/1N Test Finger Spring Based , test hook ,Test probe B 0.4Nm to 2.0 Nm/0.001Nm	IS 616 / IEC 60065 Cl.17	Permanent
646.	Audio, Video and Electronic Products	Stability and mechanical hazards	10° with 360° rotation 100N/ 1N 0.5 J/ 0.1J	IS 616 / IEC 60065 Cl.19	Permanent
647.	Audio, Video and Electronic Products	Resistance to fire	(Needle flame 1 to 1000 ° C /1° C, 1 to 120 sec/1sec) (glow wire 1 to 1000 ° C /1° C , 0.1 to 99.9s/0.1s) 0.01 to 3600 sec/0.01/1sec 0.01 mm to 200 mm / 0.01 mm Dessicator 125°C ±2°C/0.1°C Amb to 1200 deg C	IS 616 / IEC 60065 Cl.20	Permanent
<b>Discipline: Electrical, Group: Rotating Electrical Machines</b>					
648.	Single Phase A.C. Induction Motors	Rated conditions of voltage,Frequency, output and speed of Motors	Qualitative: 0 to 6000W	Cl. 4 of IS 996	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
649.	Single Phase A.C. Induction Motors	Site conditions	Qualitative: 0 to 150°C	Cl. 5 of IS 996	Permanent
650.	Single Phase A.C. Induction Motors	Environment	Qualitative	Cl. 6 of IS 996	Permanent
651.	Single Phase A.C. Induction Motors	Dimensions	Qualitative: 0 to 10m, 1mm, 0.01 to 200mm	Cl. 7 of IS 996	Permanent
652.	Single Phase A.C. Induction Motors	Duty and Rating	Qualitative: 0 to 3600 Sec	Cl. 8 of IS 996	Permanent
653.	Single Phase A.C. Induction Motors	General Construction	Qualitative	Cl. 9 of IS 996	Permanent
654.	Single Phase A.C. Induction Motors	Type of Enclosures	Qualitative: Amb to 250°C	Cl. 10 of IS 996	Permanent
655.	Single Phase A.C. Induction Motors	Method of Cooling	Qualitative: -70 to 150°C	Cl. 11 of IS 996	Permanent
656.	Single Phase A.C. Induction Motors	General Characteristics	Qualitative: 0 to 150°C	Cl. 12 of IS 996	Permanent
657.	Single Phase A.C. Induction Motors	High Voltage	Qualitative: 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 996	Permanent
658.	Single Phase A.C. Induction Motors	Winding Resistance Measurement	Qualitative: 0 to 150°C, 0.01 to 1999μΩ	Cl. 14 of IS 996	Permanent
659.	Single Phase A.C. Induction Motors	Reduced Voltage Running up test at no load	Qualitative:2.5 to 99999RPM	Cl. 15 of IS 996	Permanent
660.	Single Phase A.C. Induction Motors	Noise level	Qualitative(30-80dB), (50-100dB), (80-130dB):	Cl. 16 of IS 996	Permanent
661.	Single Phase A.C. Induction Motors	Over Speed Test	Qualitative:2.5 to 99999RPM	Cl. 17 of IS 996	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
662.	Single Phase A.C. Induction Motors	Thermal Marking	Qualitative	Cl. 18 of IS 996	Permanent
663.	Single Phase A.C. Induction Motors	Criteria for labelling Environment friendly products	Qualitative	Cl. 19 of IS 996	Permanent
664.	Single Phase A.C. Induction Motors	Marking of Diagram of Connections	Qualitative	Cl. 20 of IS 996	Permanent
665.	Single Phase A.C. Induction Motors	Tests	Qualitative	Cl. 21 of IS 996	Permanent
666.	Single Phase A.C. Induction Motors	General Information to be given with enquiry and order	Qualitative	Cl. 22 of IS 996	Permanent
667.	Single Phase A.C. Induction Motors	Selection and application	Qualitative	Cl. 23 of IS 996	Permanent

#### Discipline: Electrical Group: Power System and Stabilizers

668.	Uninterruptible power supply (UPS)	Fault and abnormal Conditions	Qualitative :1 to 120kV, 20mH to 2000H, 200pF to 20mF, 20ohm to 200Mohm LC.0.5	Cl.4.2 of IS 16242: 2025/IEC 62040-1	Permanent
669.	Uninterruptible power supply (UPS)	Short Circuit and Over Load Protection	Qualitative :1 to 120kV, 20mH to 2000H, 200pF to 20mF, 20ohm to 200Mohm LC.0.5	Cl. 4.3, IS 16242: 2025/IEC 62040-1	Permanent
670.	Uninterruptible power supply (UPS)	Protection against electric shock	Qualitative: Range: 0 to 100 V	Cl.4.4 of IS 16242: 2025/IEC 62040-1	Permanent
671.	Uninterruptible power supply (UPS)	Protection against electrical hazards	Qualitative :0.01 to 120kV, up to 300Kg, 0 to 3600 Sec, 0 to 980N, 0.1 to 65Vdc, 0 to 30A, 100MHz, 0.1 µA-30 mA, 0.1 to 200mm, 1 to 120kV	Cl.4.5 of IS 16242: 2025/IEC 62040-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
672.	Uninterruptible power supply (UPS)	Protection against fire and thermal hazards	Qualitative	Cl. 4.6 of IS 16242: 2025/IEC 62040-1	Permanent
673.	Uninterruptible power supply (UPS)	Protection against mechanical hazards	Qualitative	Cl.4.7 of IS 16242: 2025/IEC 62040-1	Permanent
674.	Uninterruptible power supply (UPS)	Equipment with multiple sources of supply	Qualitative :1 to 120kV, 20mH to 2000H, 200pF to 20mF, 20 ohm to 200Mohm LC.0.5	Cl.4.8 of IS 16242: 2025/IEC 62040-1	Permanent
675.	Uninterruptible power supply (UPS)	Protection against environmental Stresses	Qualitative: amb to 250deg C, amb to 95%RH, -75 to 150deg C	Cl.4.9 of IS 16242: 2025/IEC 62040-1	Permanent
676.	Uninterruptible power supply (UPS)	Protection against sonic pressure hazards	Qualitative: Range: 30-130 db/0020lc:0.1Db	Cl.4.10 of IS 16242: 2025/IEC 62040-1	Permanent
677.	Uninterruptible power supply (UPS)	Wiring and connections	Qualitative :o to 3600 sec, 0 to 200 mm, 0 to 5m, o.01 to 20 kg	Cl.4.11 of IS 16242: 2025/IEC 62040-1	Permanent
678.	Uninterruptible power supply (UPS)	Test requirement	Qualitative :0.01 to 120kV, 0 to 3600 Sec, 0 to 300Vac, 0 to 30A, 0.1 to 65Vdc, 0 to 30A, 100MHz, 0.1 µA-30 mA, 0.1 to 200mm, 1 to 120kV	Cl.5 of IS 16242: 2025/IEC 62040-1	Permanent
679.	Uninterruptible power supply (UPS)	Test specification	Qualitative	Cl.5.2 of IS 16242: 2025/IEC 62040-1	Permanent
680.	Uninterruptible power supply (UPS)	Abnormal operation and simulated fault test	Qualitative :0.1µA to 30mA/ Lc: 0.1µA	Cl.5.2.4 of IS 16242: 2025/IEC 62040-1	Permanent
681.	Uninterruptible power supply (UPS)	Vibration Test	Qualitative :5-2500Hz	Cl. 5.2.6.4 of IS 16242: 2025/IEC 62040-1	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
682.	Uninterruptible power supply (UPS)	Salt Mist Test	Qualitative	Cl. 5.2.6.5 of IS 16242: 2025/IEC 62040-1	Permanent
683.	Uninterruptible power supply (UPS)	Dust and Sand Test	0.01 mm to 150 mm/Lc: 0.01 mm	Cl. 5.2.6.6 of IS 16242: 2025/IEC 62040-1	Permanent
684.	Uninterruptible power supply (UPS)	Information and Marking Requirement	Qualitative :0 to 3600 Sec /Lc: 0.01/1 sec	Cl. 6 of IS 16242: 2025/IEC 62040-1	Permanent
685.	Uninterruptible Power Systems (UPS)	Power factor	Others :0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz, 0CosØ to 1CosØ	Cl. 6.4.1.5 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
686.	Uninterruptible Power Systems (UPS)	3-phase unbalance (Output voltage)	Others :0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.4.2.5 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
687.	Uninterruptible Power Systems (UPS)	Acoustic noise	0 dB to 150 dB	Cl. 6.5.5 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
688.	Uninterruptible Power Systems (UPS)	DC component	Others :0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC	Cl. 6.4.2.6 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			Rigol, 100MHz		
689.	Uninterruptible Power Systems (UPS)	Dynamic performance	Others :0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.4.2.11 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
690.	Uninterruptible Power Systems (UPS)	Efficiency	Others :0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.4.1.6 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
691.	Uninterruptible Power Systems (UPS)	Electrical	Others :0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.2.2 IS16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
692.	Uninterruptible Power Systems (UPS)	Harmonic Distortion of Input Current	Others :0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range	Cl. 6.4.1.4 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			120KVA, RLC Rigol, 100MHz		
693.	Uninterruptible Power Systems (UPS)	Input a.c. supply compatibility	Qualitative	Cl. 6.4.1 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
694.	Uninterruptible Power Systems (UPS)	Input frequency tolerance	Qualitative	Cl. 6.4.1.2 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
695.	Uninterruptible Power Systems (UPS)	Inrush current	Qualitative	Cl. 6.4.1.3 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
696.	Uninterruptible Power Systems (UPS)	Load sharing Test	Others :0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.4.2.7 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
697.	Uninterruptible Power Systems (UPS)	Normal mode Full load	Others :0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.4.2.2 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
698.	Uninterruptible Power Systems (UPS)	Normal mode No load	Others :0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC	Cl. 6.4.2.1 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			Rigol, 100MHz		
699.	Uninterruptible Power Systems (UPS)	Operation Test	Others :0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.5.4 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
700.	Uninterruptible Power Systems (UPS)	Output Non-linear load	0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.4.3 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
701.	Uninterruptible Power Systems (UPS)	Output overvoltage test	Qualitative	Cl. 6.4.2.8 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
702.	Uninterruptible Power Systems (UPS)	Overload and fault clearing capability	Qualitative	Cl. 6.4.2.10 IS 16242 (Part 3): 2025/ IEC 62040-3:2011	Permanent
703.	Uninterruptible Power Systems (UPS)	Periodic output voltage variation test (modulation)	0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.4.2.9 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
704.			0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-		Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	Uninterruptible Power Systems (UPS)	Simulation of parallel redundant UPS fault	70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.4.2.12 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	
705.	Uninterruptible Power Systems (UPS)	Stand-by generator compatibility test	Qualitative	Cl. 6.4.1.9 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
706.	Uninterruptible Power Systems (UPS)	Steady-state input voltage tolerance	0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.4.1.1 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
707.	Uninterruptible Power Systems (UPS)	Storage (Dry heat, Damp heat, Cold test)	0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz , - 30°C to 300°C, 10-95%RH	Cl. 6.5.3 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
708.	Uninterruptible Power Systems (UPS)	Stored and restored energy	0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz, 0.01sec to 24Hr, - 20°C to	Cl. 6.4.4 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			300°C		
709.	Uninterruptible Power Systems (UPS)	Stored energy mode - Full load	0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.4.2.4 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
710.	Uninterruptible Power Systems (UPS)	Stored energy mode - No load	0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.4.2.3 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
711.	Uninterruptible Power Systems (UPS)	Transportation (Shock test, Free fall test)	0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz , 0.01-20mm, 5-500Hz, 0.5-200gn	Cl. 6.5.2 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
712.	Uninterruptible Power Systems (UPS)	UPS Functional unit Tests	0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl. 6.6 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
713.	Uninterruptible Power Systems (UPS)	Verification of 'Electrical conditions, Performance and declared values'	Qualitative	Cl. 5 IS 16242 (Part 3): 2025/ IEC 62040-3: 2011	Permanent
714.	Utility-Interconnected Photovoltaic Inverters	Islanding Prevention Measures Test for Single or Multi-Phase Inverter	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.6 of IS 16169:2019/IEC 62116	Permanent
715.	Utility-Interconnected Photovoltaic Inverters	Islanding Prevention Measures Test for Single or Multi-Phase Inverter	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.6 of IS 16169:2019/IEC 62116	Permanent
716.	Power Converters for use in Photovoltaic Power Systems	Array Insulation Resistance Detection for Inverters for Ungrounded and Functionally Grounded Arrays	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.4.8.2 of IS 16221 (Part 2): 2015/IEC 62109-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
717.	Power Converters for use in Photovoltaic Power Systems	Array Residual Current Detection	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.4.8.3 of IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
718.	Power Converters for use in Photovoltaic Power Systems	Back-Feed Voltage Protection	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz Range: 50mV to 100V Range: 2nSec to 100Sec Range: 1Sec to 99min	Cl.4.6 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.4 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
719.	Power Converters for use in Photovoltaic Power Systems	Components	Range: Efficiency: 1- 100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC	Cl.14 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.14 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			Rigol, 100MHz Range: 0.1 to 200N Range: 1Sec to 99 min Range:0.01 to 150mm		
720.	Power Converters for use in Photovoltaic Power Systems	Electrical Rating Test	Range: Efficiency: 1- 100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz , Range: 2nSec to 100Sec	Cl.4.7 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.4.7 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
721.	Power Converters for use in Photovoltaic Power Systems	Environment Requirements and Conditions	Range: 30 to 300°C, Range: 10 to 95 %RH	Cl.6 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.6 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
722.	Power Converters for use in Photovoltaic Power Systems	Fault Indication	Qualitative	Cl.13.9 of IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
723.	Power Converters for use in Photovoltaic Power Systems	Humidity Preconditioning	Range: Efficiency: 1- 100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-	Cl.4.5 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.4 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			200A/As per Range 120KVA, RLC Rigol, 100MHz Range: 2nSec to 100Sec Range: 1Sec to 99min Range: 50mV to 100V		
724.	Power Converters for use in Photovoltaic Power Systems	Marking and Documentation	Qualitative	Cl.5 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.5 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
725.	Power Converters for use in Photovoltaic Power Systems	Physical Requirement (Handles and Manual Controls & Securing of Parts)	Range: 0.1 to 200N, Range:0.01 to 25mm	Cl.13.1 & 13.2 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.13 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
726.	Power Converters for use in Photovoltaic Power Systems	Physical Requirement (Internal Wiring and Connections)	0.1 N to 200 N	Cl.13.4 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.13 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
727.	Power Converters for use in Photovoltaic Power Systems	Physical Requirement (Mechanical Resistance to Deflection, Impact or Drop)	Qualitative	Cl.13.7 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.13 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
728.	Power Converters for use in Photovoltaic Power Systems	Physical Requirement (Openings In Enclosures)	0.01 mm to 150 mm	Cl.13.5 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.13 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
729.	Power Converters for use in Photovoltaic Power Systems	Physical Requirement	0.1 °C to 150 °C	Cl.13.6 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.13	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		(Polymeric Materials)		IS 16221 (Part 2): 2015/IEC 62109-2	
730.	Power Converters for use in Photovoltaic Power Systems	Physical Requirement (Provision for External Connection)	0.01 to150 mm , 1Sec to 99min	Cl.13.3 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.13 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
731.	Power Converters for use in Photovoltaic Power Systems	Physical Requirement (Thickness Requirements for Metal Enclosures)	0.01 mm to 150 mm	Cl.13.8 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.13 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
732.	Power Converters for use in Photovoltaic Power Systems	Protection Against Electric Shock and Energy Hazards	Range: Efficiency: 1- 100%, 0- 350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40- 70Hz/ As per Range, 120kVA, 0- 1500Vdc/ As per Range, 0- 200A/As per Range 120KVA, RLC Rigol, 100MHz Range: 2nSec to 100Sec Range: 1Sec to 99min Range: 50mV to 100V Range: 0 to 100 N Range: 0.1µA to20mA	Cl.7 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.7 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
733.	Power Converters for use in Photovoltaic Power Systems	Protection Against Fire Hazards	Range: Efficiency: 1- 100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz Range: 1Sec to 99Min, Range: 0.01 to 150mm, Range: 0.1 to 960°C, Range:0.1 to 150°C	Cl.9 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.9 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
734.	Power Converters for use in Photovoltaic Power Systems	Protection Against Liquid Hazards & Chemical Hazards	Qualitative	Cl.11 & 12 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.11 & 12 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
735.	Power Converters for use in Photovoltaic Power Systems	Protection Against Mechanical Hazards	Range: Efficiency: 1- 100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz, Range: 0.1 to 200N, Range: 1Sec to 99Min., Range: 0.1 to 150°C	Cl.8 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.8 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
736.	Power Converters for use in Photovoltaic Power Systems	Protection Against Sonic Pressure Hazards	1 db to 150 db	Cl.10 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.10 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
737.	Power Converters for use in Photovoltaic Power Systems	Testing In Single Fault Condition	Range: Efficiency: 1- 100%, 0- 350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40- 70Hz/ As per Range, 120kVA, 0- 1500Vdc/ As per Range, 0- 200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.4.4 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.4.4 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
738.	Power Converters for use in Photovoltaic Power Systems	Thermal Testing	Range: Efficiency: 1- 100%, 0- 350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40- 70Hz/ As per Range, 120kVA, 0- 1500Vdc/ As per Range, 0- 200A/As per Range 120KVA, RLC Rigol, 100MHz, Range: 0.1 to 150°C, Range:2mOhm to 2KOhm	Cl.4.3 of IS 16221 (Part 1): 2016/IEC 62109-1: 2010, Cl.4 IS 16221 (Part 2): 2015/IEC 62109-2	Permanent
739.	Power Converters for use in Photovoltaic Power Systems	Verification of Declaration/Ratigns/Doc Requirements for General Requirements	Qualitative	Cl.4.8.1 of IS 16221 (Part 2): 2015/IEC 62109-2	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
		Regarding Inverter Isolation and Array Grounding			
740.	Uninterruptible power systems (UPS)	Surge test	Qualitative: up to 6KV	IEC 62040-2:2016	Permanent
741.	Uninterruptible power systems (UPS)	Electrical fast transient/burst immunity test	Qualitative: up to 4.8KV	IEC 62040-2:2016	Permanent
742.	Uninterruptible power systems (UPS)	Electrostatic Discharge immunity test	Contact: Up to 12kV, Air: Up to 20kV	IEC 62040-2:2016	Permanent
743.	Uninterruptible power systems (UPS)	Harmonics and Inter Harmonics	Qualitative: 45-66Hz, 40th harmonic	IEC 62040-2:2016	Permanent
744.	Uninterruptible power systems (UPS)	Electrical Condition, Performance and declared value	Qualitative: 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz, 0.01sec to 24Hr, -20°C to 300°C	Cl.5 of IEC 62040-3:2021	Permanent
745.	Uninterruptible power systems (UPS)	UPS Tests	Qualitative: 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz, 0.01sec to 24Hr, -20°C to	Cl.6.1 of IEC 62040-3:2021	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			300°C		
746.	Uninterruptible power systems (UPS)	Routine Tests	Qualitative: 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz, 0.01sec to 24Hr, -20°C to 300°C	Cl.6.2 of IEC 62040-3:2021	Permanent
747.	Uninterruptible power systems (UPS)	Site Tests	Qualitative: 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz, 0.01sec to 24Hr, -20°C to 300°C	Cl.6.3 of IEC 62040-3:2021	Permanent
748.	Uninterruptible power systems (UPS)	Electrical Input	Qualitative: 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz, 0.01sec to 24Hr, -20°C to	Cl.6.4 of IEC 62040-3:2021	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			300°C		
749.	Uninterruptible power systems (UPS)	Environmental Test	Qualitative: -70°C to 150°C, 1 db to 150 db	Cl.6.5 of IEC 62040-3:2021	Permanent
750.	Uninterruptible power systems (UPS)	UPS functional unit tests	Qualitative: 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz, 0.01sec to 24Hr, -20°C to 300°C	Cl.6.6 of IEC 62040-3:2021	Permanent
<b>Discipline: Mechanical, Group: Performance/Durability/ Safety Test</b>					
751.	Domestic Gas Stove and Built in Hob for Use with LPG	General	Qualitative	Cl. 4 of IS 4246	Permanent
752.	Domestic Gas Stove and Built in Hob for Use with LPG	Materials	Qualitative	Cl. 5 of IS 4246	Permanent
753.	Domestic Gas Stove and Built in Hob for Use with LPG	Design and Maintenance	Qualitative: 0.01 to 200mm	Cl. 6 of IS 4246	Permanent
754.	Domestic Gas Stove and Built in Hob for Use with LPG	Rigidity and Stability	Qualitative	Cl. 7 of IS 4246	Permanent
755.	Domestic Gas Stove and Built in Hob for Use with LPG	Workmanship and finish	Qualitative	Cl. 7 of IS 4246	Permanent
756.	Domestic Gas Stove and Built in Hob for Use with LPG	Rigidity and Stability	Qualitative	Cl. 8 of IS 4246	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
757.	Domestic Gas Stove and Built in Hob for Use with LPG	Gas Taps	Qualitative	Cl. 9 of IS 4246	Permanent
758.	Domestic Gas Stove and Built in Hob for Use with LPG	Injector jets	Qualitative: 0.01 to 200mm	Cl. 10 of IS 4246	Permanent
759.	Domestic Gas Stove and Built in Hob for Use with LPG	Burners	Qualitative	Cl. 11 of IS 4246	Permanent
760.	Domestic Gas Stove and Built in Hob for Use with LPG	Burners Pan Supports	Qualitative	Cl. 12 of IS 4246	Permanent
761.	Domestic Gas Stove and Built in Hob for Use with LPG	Gas Soundness	Qualitative	Cl. 13 of IS 4246	Permanent
762.	Domestic Gas Stove and Built in Hob for Use with LPG	Gas Inlet Connections	Qualitative	Cl. 14 of IS 4246	Permanent
763.	Domestic Gas Stove and Built in Hob for Use with LPG	Strength and Rigidity	Qualitative	Cl. 15 of IS 4246	Permanent
764.	Domestic Gas Stove and Built in Hob for Use with LPG	General Condition of Test	Qualitative	Cl. 16 of IS 4246	Permanent
765.	Domestic Gas Stove and Built in Hob for Use with LPG	Gas Consumption	Qualitative	Cl. 17 of IS 4246	Permanent
766.	Domestic Gas Stove and Built in Hob for Use with LPG	Ignition and flame Travel	Qualitative	Cl. 18 of IS 4246	Permanent
767.	Domestic Gas Stove and Built in Hob for Use with LPG	Flame Stability	Qualitative	Cl. 19 of IS 4246	Permanent



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768.	Domestic Gas Stove and Built in Hob for Use with LPG	Noise Control	Qualitative	Cl. 20 of IS 4246	Permanent
769.	Domestic Gas Stove and Built in Hob for Use with LPG	Flash Back	Qualitative	Cl. 21 of IS 4246	Permanent
770.	Domestic Gas Stove and Built in Hob for Use with LPG	Formation of Soot	Qualitative	Cl. 22 of IS 4246	Permanent
771.	Domestic Gas Stove and Built in Hob for Use with LPG	Resistance to Draught	Qualitative	Cl. 23 of IS 4246	Permanent
772.	Domestic Gas Stove and Built in Hob for Use with LPG	Combustion	Qualitative	Cl. 24 of IS 4246	Permanent
773.	Domestic Gas Stove and Built in Hob for Use with LPG	Fire Hazard and Limited Temperature	Qualitative	Cl. 25 of IS 4246	Permanent
774.	Domestic Gas Stove and Built in Hob for Use with LPG	Thermal Efficiency	Qualitative	Cl. 26 of IS 4246	Permanent
775.	Domestic Gas Stove and Built in Hob for Use with LPG	Classification of Test	Qualitative	Cl. 27 of IS 4246	Permanent
776.	Domestic Gas Stove and Built in Hob for Use with LPG	Instruction	Qualitative	Cl. 28 of IS 4246	Permanent
777.	Domestic Gas Stove and Built in Hob for Use with LPG	Marking	Qualitative	Cl. 29 of IS 4246	Permanent
<b>Discipline: Electronics Group: Power Supplies &amp; Stabilizers</b>					
778.	Grid Connected Photovoltaic Inverters	Calculated quantities	Qualitative	Cl.3.4 of IS 17980/IEC 62891	Permanent



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779.	Grid Connected Photovoltaic Inverters	MPPT Efficiency, energetic	Qualitative	Cl.3.4.1 of IS 17980: /IEC 62891	Permanent
780.	Grid Connected Photovoltaic Inverters	Conversion Efficiency, energetic	Qualitative	Cl.3.4.2 of IS 17980/IEC 62891, BEE schedule38	Permanent
781.	Grid Connected Photovoltaic Inverters	Overall Efficiency, energetic	Qualitative	Cl.3.4.3 of IS 17980/IEC 62891	Permanent
782.	Grid Connected Photovoltaic Inverters	Photovoltaic array simulator	Qualitative	Cl.3.5 of IS 17980/IEC 62891	Permanent
783.	Grid Connected Photovoltaic Inverters	Mppts Efficiency	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.4 of IS 17980/IEC 62891	Permanent
784.	Grid Connected Photovoltaic Inverters	General Description	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range	Cl.4.1 of IS 17980/IEC 62891, BEE schedule38	Permanent



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			120KVA, RLC Rigol, 100MHz		
785.	Grid Connected Photovoltaic Inverters	Test Set-Up	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.4.2 of IS 17980/IEC 62891, BEE schedule38	Permanent
786.	Grid Connected Photovoltaic Inverters	Static Mppt Efficiency	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.4.3 of IS 17980/IEC 62891, BEE schedule38	Permanent
787.	Grid Connected Photovoltaic Inverters	Test Conditions	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range,	Cl.4.3.1 of IS 17980/IEC 62891, BEE schedule38	Permanent



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As per ISO/IEC 17025

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**Certificate No.:** T-0010

**Issue date:** 30.05.2025

**Validity :** 29.05.2029

**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz		
788.	Grid Connected Photovoltaic Inverters	Measurement procedure	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/  As per Range, 0-200A/As per Range  120KVA, RLC  Rigol, 100MHz	Cl.4.3.2 of IS 17980/IEC 62891, BEE schedule38	Permanent
789.	Grid Connected Photovoltaic Inverters	Evaluation-Calculation of static MPPT efficiency	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/  As per Range, 0-200A/As per Range	Cl.4.3.3 of IS 17980/IEC 62891: 2020, BEE schedule38	Permanent



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**Amendment Date:** 02.02.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			120KVA, RLC Rigol, 100MHz		
790.	Grid Connected Photovoltaic Inverters	Test Condition for Dynamic Mppt Efficiency	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.4.4 of IS 17980/IEC 62891	Permanent
791.	Grid Connected Photovoltaic Inverters	Dynamic MPPT Efficiency	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.4.4.1 of IS 17980/IEC 62891	Permanent
792.	Grid Connected Photovoltaic Inverters	Measurement procedure	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-	Cl.4.4.2 of IS 17980/IEC 62891	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz		
793.	Grid Connected Photovoltaic Inverters	Evaluation- Calculation of dynamic MPPT efficiency	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.4.4.3 of IS 17980/IEC 62891	Permanent
794.	Grid Connected Photovoltaic Inverters	Calculation of the Overall Efficiency	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.5 of IS 17980/IEC 62891, BEE schedule38	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
795.	Photovoltaic systems - Power conditioners	Efficiency calculations	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.5 of IS/IEC 61683	Permanent
796.	Photovoltaic systems - Power conditioners	Efficiency measurement conditions	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.4 of IS/IEC 61683	Permanent
797.	Photovoltaic systems - Power conditioners	Efficiency test circuits	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/	Cl.6 of IS/IEC 61683	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
			As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz		
798.	Photovoltaic systems - Power conditioners	Loss measurement	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.7 of IS/IEC 61683	Permanent
799.	Photovoltaic PV systems	Personnel Safety and Equipment Protection	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz, 0-100MHz, 50mV to 100V, 1Sec to 99Min.	Cl.5 of IS/IEC 61727	Permanent



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**International Quality And Accreditation Services Pvt. Ltd.**  
(Formerly International Quality And Accreditation Services LLP)  
1/4, 1st Floor, East Patel Nagar New Delhi, 110008

### Scope of Accreditation for Testing

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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
800.	Photovoltaic PV systems	Utility Compatibility	Range: Efficiency: 1-100%, 0-350Vac(L-L)/As per Range, 181.8A (60.6A/Phase), 40-70Hz/ As per Range, 120kVA, 0-1500Vdc/ As per Range, 0-200A/As per Range 120KVA, RLC Rigol, 100MHz	Cl.4 of IS/IEC 61727	Permanent



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