Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

CAB Name: Classic Instrumentation Pvt. Ltd.

Address: C-45, Sector-65, Noida – 201301, Uttar Pradesh
Certificate No.: T-0065

Issue date : 22.06.2026
Validity : 21.06.2030
Amendment date: N/A

Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
Discipline: Photometry, **Group:** Light Sources (Electric Lamp)					
1	Solid-State Lighting Products	Chromaticity coordinates	Quantitative: 0.0001 =Y Coordinates to 0.9999 =Y Coordinates/ 0.0001 =x Coordinates to 0.9999 =x Coordinates	IES LM-79 (Clause 12), 2008	Permanent
2	Solid-State Lighting Products	Co-related Color Temperature (CCT)	Quantitative: 1000 K to 100000 K	IES LM-79 (Clause 12), 2008	Permanent
3	Solid-State Lighting Products	Color rendering Index (CRI)	Quantitative: 0 CRI to 100 CRI	IES LM-79 (Clause 12), 2008	Permanent
4	Solid-State Lighting Products	Luminous Efficacy	Quantitative: 1 lm/W to 500 lm/W	IES LM-79 (Clause 11), 2008	Permanent
5	Solid-State Lighting Products	Total Luminous flux	Quantitative: 10 lm to 250000lm	IES LM-79 (Clause 9), 2008	Permanent
6	Solid-State Lighting Products	Luminous Intensity Distribution, Beam Angle	Quantitative: 1 cd to 250000 cd	IES LM-79 (Clause 10), 2008	Permanent
7	Solid-State Lighting Products	Power Factor (PF)	Quantitative: 0.1 pf to 1 pf	IES LM-79 (Clause 8), 2008	Permanent
8	Solid-State Lighting Products	Power	Quantitative: 1 W to 2500 W	IES LM-79 (Clause 8), 2008	Permanent
9	Solid-State Lighting Products	Voltage	Quantitative: 1 V to 300 V	IES LM-79 (Clause 8), 2008	Permanent
10	Solid-State Lighting Products	Current	Quantitative: 0.01 A to 10 A	IES LM-79 (Clause 8), 2008	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
11	Solid-State Lighting Products	Chromaticity coordinates	Quantitative: 0.0001 =Y Coordinates to 0.9999 =Y Coordinates/ 0.0001 =x Coordinates to 0.9999 =x Coordinates	ANSI/IES LM-79-24:2024	Permanent
12	Solid-State Lighting Products	Co-related Color Temperature (CCT)	Quantitative: 1000 K to 100000 K	ANSI/IES LM-79-24:2024	Permanent
13	Solid-State Lighting Products	Color rendering Index (CRI)	Quantitative: 0 CRI to 100 CRI	ANSI/IES LM-79-24:2024	Permanent
14	Solid-State Lighting Products	Luminous Efficacy	Quantitative: 1 lm/W to 500 lm/W	ANSI/IES LM-79-24:2024	Permanent
15	Solid-State Lighting Products	Total Luminous flux	Quantitative: 10 lm to 250000lm	ANSI/IES LM-79-24:2024	Permanent
16	Solid-State Lighting Products	Luminous Intensity Distribution, Beam Angle	Quantitative: 1 cd to 250000 cd	ANSI/IES LM-79-24:2024	Permanent
17	Solid-State Lighting Products	Power Factor (PF)	Quantitative: 0.1 pf to 1 pf	ANSI/IES LM-79-24:2024	Permanent
18	Solid-State Lighting Products	Power	Quantitative: 1 W to 2500 W	ANSI/IES LM-79-24:2024	Permanent
19	Solid-State Lighting Products	Voltage	Quantitative: 1 V to 300 V	ANSI/IES LM-79-24:2024	Permanent
20	Solid-State Lighting Products	Current	Quantitative: 0.01 A to 10 A	ANSI/IES LM-79-24:2024	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
21	Self-Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	General Requirement on Tests	Qualitative	IS 16102: Part 2: 2017+A1:2020 Clause 4	Permanent
22	Self-Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	Marking	Qualitative	IS 16102: Part 2: 2017+A1:2020 Clause 5	Permanent
23	Self-Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	Dimensions	Quantitative: 0.01 mm to 300 mm	IS 16102: Part 2: 2017+A1:2020 Clause 6	Permanent
24	Self-Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	Test Conditions	Qualitative	IS 16102: Part 2: 2017+A1:2020 Clause 7	Permanent
25	Self-Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	Lamp Input	Quantitative: 1-300V, 10mA-3A LC: 1V, 0.01A 0.1V-1000V,0.01A-10A 0.1PF-1PF 0.1W to 100W	IS 16102: Part 2: 2017+A1:2020 Clause 8 Clause 8.1 Lamp Power Clause 8.2 Power Factor Clause 8.3 Harmonics Clause 8.4 Emission of Radio Frequency Disturbances	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
26	Self-Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	Light Output	Quantitative: 1 lm/W to 500 lm/W,	IS 16102: Part 2: 2017+A1:2020 Clause 9 Clause 9.1 Luminous Flux Clause 9.2 Luminous Intensity Distribution, Peak Intensity and Beam Angle Clause 9.3 Efficacy	Permanent
27	Self-Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	Colour Nomenclature, Variation and Rendering	Quantitative: 0 CRI to 100 CRI	IS 16102: Part 2: 2017+A1:2020 Clause 10 Clause 10.1 Colour Variation Categories Clause 10.2 Colour Rendering Index (CRI)	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
28	Self-Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	Lamp Life	Qualitative	IS 16102: Part 2: 2017+A1:2020 Clause 11 Clause 11.1 General Clause 11.2 Lumen Maintenance Clause 11.3 Endurance Tests Clause 11.3.2 Temperature Cycling Test Clause 11.3.3 Supply Switching Test Clause 11.3.4 Accelerated Operational Life Test	Permanent
29	Self-Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	Type tests	Qualitative	IS 16102: Part 2: 2017+A1:2020 Clause 14	Permanent
30	Self-Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	Method of Measuring Lamp Characteristics	Qualitative	IS 16102: Part 2: 2017+A1:2020 ANNEX A	Permanent
31	Self-Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	Explanation of Photometric Code	Qualitative	IS 16102: Part 2: 2017+A1:2020 ANNEX B	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
32	LED Modules for General Lighting (Performance Requirement)	Marking	Qualitative	IS 16103 (Part 2): 2012 Clause 4	Permanent
33	LED Modules for General Lighting (Performance Requirement)	Dimensions	Quantitative: 0.01 mm to 300 mm	IS 16103 (Part 2): 2012 Clause 5	Permanent
34	LED Modules for General Lighting (Performance Requirement)	Test Conditions	Qualitative	IS 16103 (Part 2): 2012 Clause 6	Permanent
35	LED Modules for General Lighting (Performance Requirement)	Module Power	Quantitative: 1-300V, 10mA-3A LC: 1V, 0.01A 0.1V-1000V,0.01A-10A 0.1PF-1PF 0.1W to 100W	IS 16103 (Part 2): 2012 Clause 7	Permanent
36	LED Modules for General Lighting (Performance Requirement)	Light output	Quantitative: 1 lm/W to 500 lm/W,	IS 16103 (Part 2): 2012 Clause 8 Clause 8.1 Luminous Flux Clause 8.2 Luminous Intensity Distribution, Peak Intensity and Beam Angle Clause 8.3 Efficacy	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
37	LED Modules for General Lighting (Performance Requirement)	Chromaticity coordinates, correlated colour temperature (CCT) and colour rendering	Quantitative: 0 CRI to 100 CRI 1000 K to 100000 K	IS 16103 (Part 2): 2012 Clause 9 Clause 9.1 Chromaticity coordinates Clause 9.2 Correlated colour temperature (CCT) Clause 9.3 Colour Rendering Index (CRI)	Permanent
38	LED Modules for General Lighting (Performance Requirement)	LED module life	Qualitative	IS 16103 (Part 2): 2012 Clause 10 Clause 10.1 General Clause 10.2 Lumen Maintenance Clause 10.3 Endurance Tests Clause 10.3.2 Temperature Cycling Test Clause 10.3.3 Supply Switching Test Clause 10.3.4 Accelerated operation life test	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
39	LED Modules for General Lighting (Performance Requirement)	Verification	Qualitative	IS 16103 (Part 2): 2012 Clause 11	Permanent
40	LED Modules for General Lighting (Performance Requirement)	Information of luminaire design	Qualitative	IS 16103 (Part 2): 2012 Clause 12	Permanent
41	LED Modules for General Lighting (Performance Requirement)	Test for Emission (Radiated and conducted) of radio frequency Disturbances	Qualitative	IS 16103 (Part 2): 2012 Clause 13	Permanent
42	LED Modules for General Lighting (Performance Requirement)	Method of measuring LED module characteristics	Qualitative	IS 16103 (Part 2): 2012 Annex A	Permanent
43	LED Modules for General Lighting (Performance Requirement)	Information for luminaire design	Qualitative	IS 16103 (Part 2): 2012 Annex B	Permanent
44	LED Modules for General Lighting (Performance Requirement)	Explanation of recommended lifetime metrics	Qualitative	IS 16103 (Part 2): 2012 Annex C	Permanent
45	LED Modules for General Lighting (Performance Requirement)	Explanation of the photometric code	Qualitative	IS 16103 (Part 2): 2012 Annex D	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
46	LED Modules for General Lighting (Performance Requirement)	Meaning of Confidence intervals	Qualitative	IS 16103 (Part 2): 2012 Annex E	Permanent
47	LED Modules for General Lighting (Performance Requirement)	Optimized Test Duration for future consideration	Qualitative	IS 16103 (Part 2): 2012 Annex G	Permanent
48	LED Modules for General Lighting (Performance Requirement)	Marking	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Clause 4	Permanent
49	LED Modules for General Lighting (Performance Requirement)	Dimensions	Quantitative: 0.01 mm to 300 mm	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Clause 5	Permanent
50	LED Modules for General Lighting (Performance Requirement)	Test Conditions	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Clause 6	Permanent
51	LED Modules for General Lighting (Performance Requirement)	Electrical LED Module input	Quantitative: 1-300V, 10mA-3A LC: 1V, 0.01A 0.1V-1000V,0.01A-10A LC: 0.1V, 0.01A Up to 16A Single Phase 9 kHz to 30MHZ	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Clause 7	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
52	LED Modules for General Lighting (Performance Requirement)	Light output	Quantitative: 10 lm to 250000 lm, 1 cd to 250000 cd 1 lm/W to 500 lm/W,	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Clause 8 Clause 8.1 Luminous Flux Clause 8.2 Luminous Intensity Distribution, Peak Intensity and Beam Angle Clause 8.3 Luminous Efficacy	Permanent
53	LED Modules for General Lighting (Performance Requirement)	Chromaticity coordinates, correlated colour temperature (CCT) and colour rendering	Quantitative: 0 CRI to 100 CRI 1000 K to 100000 K 0.0001 =Y Coordinates to 0.9999 =Y Coordinates/ 0.0001 =x Coordinates to 0.9999 =x Coordinates	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Clause 9 Clause 9.1 Chromaticity coordinates Clause 9.2 Correlated colour temperature (CCT) Clause 9.3 Colour Rendering Index (CRI)	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
54	LED Modules for General Lighting (Performance Requirement)	LED module life	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Clause 10 Clause 10.1 General Clause 10.2 Lumen Maintenance Clause 10.3 Endurance Tests Clause 10.3.2 Temperature Cycling Test Clause 10.3.3 Supply Switching Test Clause 10.3.4 Accelerated operation life test	Permanent
55	LED Modules for General Lighting (Performance Requirement)	Verification	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Clause 11	Permanent
56	LED Modules for General Lighting (Performance Requirement)	Information of luminaire design	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Clause 12	Permanent
57	LED Modules for General Lighting (Performance Requirement)	Method of measuring LED module characteristics	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Annex A	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
58	LED Modules for General Lighting (Performance Requirement)	Information for luminaire design	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Annex B	Permanent
59	LED Modules for General Lighting (Performance Requirement)	Explanation of recommended LED product lifetime metrics	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Annex C	Permanent
60	LED Modules for General Lighting (Performance Requirement)	Explanation of the photometric code	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Annex D	Permanent
61	LED Modules for General Lighting (Performance Requirement)	Measurement of displacement factor	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Annex E	Permanent
62	LED Modules for General Lighting (Performance Requirement)	Explanation of displacement factor	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Annex F	Permanent
63	LED Modules for General Lighting (Performance Requirement)	Examples of LED dies and LED packages	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Annex G	Permanent
64	LED Modules for General Lighting (Performance Requirement)	Test equipment for temperature measurement	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Annex H	Permanent
65	LED Modules for General Lighting (Performance Requirement)	Use of ANSI/IES LM-80-15 for luminous flux maintenance and maintained chromaticity coordinates data	Qualitative	IS 16103 (Part 2): 2025/ IEC 62717:2019 CSV Annex I	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
66	Solid-State Lighting Products	Chromaticity coordinates	Quantitative0.0001 =Y Coordinates to 0.9999 =Y Coordinates/ 0.0001 =x Coordinates to 0.9999 =x Coordinates	IS 16106:2012 RAF:2017 (Clause 14)	Permanent
67	Solid-State Lighting Products	Co-related Color Temperature (CCT)	Quantitative1000 K to 100000 K	IS 16106:2012 RAF:2017 (Clause 14)	Permanent
68	Solid-State Lighting Products	Color rendering Index (CRI)	Quantitative0 CRI to 100 CRI	IS 16106:2012 RAF:2017 (Clause 14)	Permanent
69	Solid-State Lighting Products	Luminous Efficacy	Quantitative 1 lm/W to 500 lm/W	IS 16106:2012 RAF:2017 (Clause 13)	Permanent
70	Solid-State Lighting Products	Total Luminous flux	Quantitative10 lm to 250000lm	IS 16106:2012 RAF:2017 (Clause 11)	Permanent
71	Solid-State Lighting Products	Luminous Intensity Distribution, Beam Angle	Quantitative 1 cd to 250000 cd	IS 16106:2012 RAF:2017 (Clause 12)	Permanent
72	Solid-State Lighting Products	Power Factor (PF)	Quantitative0.1 pf to 1 pf	IS 16106:2012 RAF:2017 (Clause 10)	Permanent
73	Solid-State Lighting Products	Power	Quantitative 1 W to 2500 W	IS 16106:2012 RAF:2017 (Clause 10)	Permanent
74	Solid-State Lighting Products	Voltage	Quantitative 1 V to 300 V	IS 16106:2012 RAF:2017 (Clause 10)	Permanent
75	Solid-State Lighting Products	Current	Quantitative0.01 A to 10 A	IS 16106:2012 RAF:2017 (Clause 10)	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
76	Luminaires Performance (LED Luminaire)	Marking	Qualitative	IS 16107 (Part 2/Sec 1) :2012 (RAF 2017) Clause 4	Permanent
77	Luminaires Performance (LED Luminaire)	Test Conditions	Qualitative	IS 16107 (Part 2/Sec 1) :2012 (RAF 2017) Clause 6	Permanent
78	Luminaires Performance (LED Luminaire)	Total Input Power	Quantitative: 1-300V, 10mA-3A LC: 1V, 0.01A 0.1V-1000V,0.01A-10A LC: 0.1V, 0.01A Up to 16A Single Phase 9 kHz to 30MHZ	IS 16107 (Part 2/Sec 1) :2012 (RAF 2017) Clause 7	Permanent
79	Luminaires Performance (LED Luminaire)	Light Output	Quantitative: 1-300V, LC: 1V, 0.01A 0.1V-1000V,0.01A-10A 0.1PF-1PF 0.1W to 2500W	IS 16107 (Part 2/Sec 1) :2012 (RAF 2017) Clause 8 Clause 8.1 Luminous Flux Clause 8.2 Luminous Intensity Distribution, Peak Intensity and Beam Angle Clause 8.3 Luminaire Efficacy	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
80	Luminaires Performance (LED Luminaire)	Chromaticity Coordinates, Correlated Colour Temperature and Colour Rendering	Quantitative: 0.0001 =Y Coordinates to 0.9999 =Y Coordinates/ 0.0001 =x Coordinates to 0.9999 =x Coordinates 1000 K to 100000 K 0 CRI to 100 CRI	IS 16107 (Part 2/Sec 1) :2012 (RAF 2017) Clause 9 Clause 9.1 Chromaticity coordinates Clause 9.2 Correlated colour temperature (CCT) Clause 9.3 Colour Rendering Index (CRI)	Permanent
81	Luminaires Performance (LED Luminaire)	LED Luminaire Life	Qualitative	IS 16107 (Part 2/Sec 1) :2012 (RAF 2017) Clause 10 Clause 10.1 General Clause 10.2 Lumen Maintenance Clause 10.3 Endurance Tests	Permanent
82	Luminaires Performance (LED Luminaire)	Verification	Qualitative	IS 16107 (Part 2/Sec 1) :2012 (RAF 2017) Clause 11	Permanent
83	Luminaires Performance (LED Luminaire)	Type tests	Qualitative	IS 16107 (Part 2/Sec 1) :2012 (RAF 2017) Clause 12	Permanent
84	Luminaires Performance (LED Luminaire)	Schedule of Tests	Qualitative	IS 16107 (Part 2/Sec 1) :2012 (RAF 2017) Clause 18	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
85	Luminaires Performance (LED Luminaire)	Method of Measuring Luminaire Characteristics	Qualitative	IS 16107 (Part 2/Sec 1) :2012 (RAF 2017) Annex A	Permanent
86	Luminaires Performance (LED Street Lighting Luminaire)	Marking	Qualitative	IS 16107 (Part 2/Sec 2):2017 Clause 4	Permanent
87	Luminaires Performance (LED Street Lighting Luminaire)	Safety Requirements	Qualitative	IS 16107 (Part 2/Sec 2):2017 Clause 5	Permanent
88	Luminaires Performance (LED Street Lighting Luminaire)	Test Conditions	Qualitative	IS 16107 (Part 2/Sec 2):2017 Clause 6	Permanent
89	Luminaires Performance (LED Street Lighting Luminaire)	Total Input Power	Quantitative: 1-300V, 10mA-3A LC: 1V, 0.01A 0.1V-1000V,0.01A-10A 0.1PF-1PF 0.1W to 2500W	IS 16107 (Part 2/Sec 2): 2017 Clause 7	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
90	Luminaires Performance (LED Street Lighting Luminaire)	Photometric Requirements	Quantitative: 1 lm/W to 500 lm/W, 1 cd to 250000 cd 1 lm/W to 500 lm/W,	IS 16107 (Part 2/Sec 2):2017 Clause 8 Clause 8.1 Luminous Flux Clause 8.2 Minimum luminaire Efficacy (lm/W) Clause 8.3 Luminous Intensity Distribution, Clause 8.4 Photometric Test	Permanent
91	Luminaires Performance (LED Street Lighting Luminaire)	Chromaticity Coordinates, Correlated Colour Temperature (CCT) and Colour Rendering	Quantitative: 0.0001 =Y Coordinates to 0.9999 =Y Coordinates/ 0.0001 =x Coordinates to 0.9999 =x Coordinates 0 CRI to 100 CRI 1000K to 100000K	IS 16107 (Part 2/Sec 2):2017 Clause 9 Clause 9.1 Chromaticity coordinates Clause 9.2 Correlated colour temperature (CCT) Clause 9.3 Colour Rendering Index (CRI)	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
92	Luminaires Performance (LED Street Lighting Luminaire)	LED Luminaire Life	Qualitative	IS 16107 (Part 2/Sec 2):2017 Clause 10 Clause 10.1 General Clause 10.2 Minimum Rated Luminaire Lifetime (B50) Clause 10.3 Lumen Maintenance Clause 10.4 Endurance Tests	Permanent
93	Luminaires Performance (LED Street Lighting Luminaire)	Operating Temperature (Range ºC)	Qualitative	IS 16107 (Part 2/Sec 2):2017 Clause 11	Permanent
94	Luminaires Performance (LED Street Lighting Luminaire)	Power Factor	0.1 pf to 1 pf	IS 16107 (Part 2/Sec 2):2017 Clause 12	Permanent
95	Luminaires Performance (LED Street Lighting Luminaire)	Harmonics	Qualitative	IS 16107 (Part 2/Sec 2):2017 Clause 13	Permanent
96	Luminaires Performance (LED Street Lighting Luminaire)	Surge Protection	Qualitative	IS 16107 (Part 2/Sec 2):2017 Clause 14	Permanent
97	Luminaires Performance (LED Street Lighting Luminaire)	Reverse Polarity (For D.C. Supplies Only)	Qualitative	IS 16107 (Part 2/Sec 2):2017 Clause 15	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
98	Luminaires Performance (LED Street Lighting Luminaire)	Ingress Protection (IP)	Qualitative	IS 16107 (Part 2/Sec 2):2017 Clause 16	Permanent
99	Luminaires Performance (LED Street Lighting Luminaire)	Verification	Qualitative	IS 16107 (Part 2/Sec 2):2017 Clause 17	Permanent
100	Luminaires Performance (LED Street Lighting Luminaire)	Schedule of Tests	Qualitative	IS 16107 (Part 2/Sec 2):2017 Clause 18	Permanent
101	Luminaires Performance (LED Street Lighting Luminaire)	Method of Measuring Led Streetlight Luminaire Characteristics	Qualitative	IS 16107 (Part 2/Sec 2):2017 Annex A	Permanent
102	Luminaires Performance (LED Street Lighting Luminaire)	Product Family Testing	Qualitative	IS 16107 (Part 2/Sec 2):2017 Annex B	Permanent
Discipline: Electrical, **Group:** Cells and Batteries					
103	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Parameter Measurement Tolerances	Qualitative	Cl. 4.0 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
104	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	General Safety Consideration	Qualitative	Cl. 5 & Cl.5.1 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
105	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Insulation of Wiring	Qualitative	Cl. 5.2 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
106	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Venting	Qualitative	Cl.5.3 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
107	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Temperature, Voltage and Current Management	Qualitative	Cl.5.4 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
108	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Terminal Contacts	Qualitative	Cl.5.5 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
109	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Assembly of Cells into Batteries	Qualitative	Cl.5.6 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
110	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Quality Plan	Qualitative	Cl.5.7 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
111	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Type test and Sample Size	Qualitative	Cl. 6 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
112	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Specific Requirements and Tests, Charging Procedure for Test Purpose	0.1 to 80Vdc 100mA to 400A -45°C to 190°C	Cl. 7, Cl.7.1 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
113	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Intended use, Continuous Low-rate charging (Cells)	0 to 6Vdc 100mA to 400A (As per Manufacturer Specification)	Cl.7.2, Cl.7.2.1of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
114	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Vibration	Qualitative	Cl.7.2.2 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
115	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Case Stress at High Ambient Temperature (Batteries	70 °C ± 2°C for 7 Hrs	Cl.7.2.3 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
116	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Temperature Cycling	-20 °C to 75 °C 10 min to 50 Hrs	Cl.7.2.4 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent

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117	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Reasonably foreseeable misuse, Incorrect Installation (Cells)	1 Ω 1 °C to 200°C	Cl. 7.3, Cl. 7.3.1 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
118	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	External Short Circuit	55°C±5°C 20°C±5°C 80mΩ±20mΩ	Cl. 7.3.2 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
119	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Free Fall	Qualitative	Cl. 7.3.3 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
120	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Mechanical Shock (Crash Hazard)	Qualitative	Cl. 7.3.4 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
121	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Thermal Abuse	20 °C ± 5°C for 1 Hrs 130 °C ± 2°C for 30 min	Cl. 7.3.5 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
122	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Crushing of Cells	13kN±0.78kN	Cl. 7.3.6 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
123	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Low Pressure (Cells)	Qualitative	Cl. 7.3.7 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
124	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Overcharge	0.01V to 60V 0.01A to 400A	Cl. 7.3.8 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
125	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Forced Discharge (Cells)	10mA to 200A 0.1Vto6Vdc 1ltfor 90 min	Cl. 7.3.9 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
126	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Information for Safety	Qualitative	Cl. 8 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
127	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	General	Qualitative	Cl. 8.1 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
128	Small Cell and Battery Safety Information	Small Cell and Battery safety information	Qualitative	Cl.8.2 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
129	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Cell Marking	Qualitative	Cl. 9, Cl. 9.1 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
130	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Battery Marking	Qualitative	Cl. 9.2 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
131	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Caution for Ingestion of small Cells and Batteries	Qualitative	Cl. 9.3 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
132	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Other Information	Qualitative	Cl. 9.4 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
133	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Packaging	Qualitative	Cl. 10 of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
134	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Recommendations to Equipment Manufacturers and Battery Assemblers	Qualitative	Annex A of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
135	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Nickel System	Recommendations to the end-users	Qualitative	Annex B of IS 16046 (Part-1): 2018+A1:2020 / IEC 62133-1:2017	Permanent
136	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	General Safety Considerations, General	Qualitative	Cl. 5, Cl. 5.1 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
137	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Insulation and Wiring	1MΩ to 100 x106MΩ 1 V to 500 Vdc	Cl .5.2 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
138	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Venting	Qualitative	Cl.5.3 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
139	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Temperature, Voltage and Current Management	Qualitative	Cl.5.4 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
140	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Terminal Contacts	Qualitative	Cl.5.5 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
141	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes -Lithium System	Assembly of Cells into Batteries	Qualitative	Cl.5.6 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
142	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Quality Plan	Qualitative	Cl.5.7 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
143	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Battery Safety Components	Qualitative	Cl.5.8 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
144	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Type Test and Sample Size	Qualitative	Cl.6 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
145	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Specific Requirement and test, Charging Process for test purpose, (First Procedure)	0.1to80Vdc 100mAto400A -45°Cto190°C	Cl.7, Cl. 7.1, Cl.7.1.1 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
146	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Second Procedure	0.1 to 80Vdc 100Ma to 400A -45°C to 190°C	Cl. 7.1.2 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
147	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Intended use, Continuous Charging at Constant Voltage (Cells)	0to6Vdc, LC=0.01V 100mAto 40 A (as Per Manufacturer Specification)	Cl.7.2, Cl.7.2.1 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
148	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Case Stress at High Ambient Temperature (Battery)	1 to 200 °C 1 to 24 hours, LC=1 sec	Cl.7.2.2 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
149	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Reasonably foreseeable misuse, External Short-Circuit (Cell)	55 °C ± 5°C 80mΩ±20mΩ, LC=0.1 mΩ Up to 200 °C, LC=0.05°C Hrs.	CL7.3, Cl.7.3.1 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
150	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	External Short-Circuit (Battery)	20 °C ± 5 °C 80mΩ±20mΩ Up to 200 °C Voltage, Hrs	Cl.7.3.2 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
151	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Free Fall	Qualitative	Cl.7.3.3 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
152	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Thermal Abuse (Cells)	20 °C ± 5°C for 1 Hrs 130 °C ± 2°C for 30 min	Cl.7.3.4 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
153	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Crush (Cell)	1 kN to 20 kN LC: 0.01 kN	Cl.7.3.5 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
154	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Overcharging of Battery	0.1to80Vdc 100mAto400A	Cl.7.3.6 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
155	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Forced Discharge (Cells)	100mAto200A 0.1Vto6Vdc Current [1It] 1 min to 90 min	Cl.7.3.7 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
156	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Mechanical Tests (Batteries), Vibration (Battery)	Qualitative	CL.7.3.8, Cl.7.3.8.1 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
157	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Mechanical Shock (Battery)	Qualitative	Cl.7.3.8.2 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
158	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Design Evaluation-Forced Internal Short-Circuit (Cells)	Qualitative	Cl.7.3.9 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
159	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Information for safety, Small Cell and Battery Safety Information	Qualitative	Cl.8, Cl 8.1 & Cl. 8.2 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
160	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Marking, Cell Marking	Qualitative	Cl.9, 9.1 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
161	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Battery Marking	Qualitative	Cl. 9.2 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
162	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Caution for Ingestion of small Cells and Batteries	Qualitative	Cl. 9.3 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
163	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Other Information	Qualitative	Cl. 9.4 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
164	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Packaging and transport	Qualitative	Cl. 10 of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
165	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Charging and Discharging range of secondary lithium-ion cells for safe use	Qualitative	Annex A of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
166	Secondary Cells and Batteries Containing Alkaline or other Non-Acidic Electrolytes-Lithium System	Measurement of Internal AC Resistance for Coin Cells	1mΩ to 20O Ω	Annex-D of IS 16046 (Part-2): 2018 + A1:2020/ IEC 62133-2:2017	Permanent
167	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Parameter Measurement tolerances	Qualitative	Cl.4 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
168	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Cell designation and marking, Cell and battery designation	Qualitative	Cl.5, Cl.5.1 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent
169	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Marking	Qualitative	Cl .5.2 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
170	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Providing the design and produce requirement of batteries	Qualitative	Cl. 5.3 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent
171	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Example of Cells	Qualitative	Cl .6of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
172	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Electrical Tests, General	Qualitative	Cl .7, Cl.7.1 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent
173	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Charging Procedure For Test Purposes	0-80V, 0.01 0-400A	Cl.7.2 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
174	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Discharge Performance, Discharge Performance at 20°C (Rated Capacity)	0.1-80 V, LC=0.1V 0.1-400 A, LC=0.01A -40°C-100°C, LC=0.05°C, 10mAh to 400Ah	Cl.7.3, Cl.7.3.1 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent
175	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Discharge Performanceat-20°C	0.1-80 V, LC=0.1V 0.1-400 A, LC=0.01A -40°C-100°C, LC=0.05°C	Cl.7.3.2 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent

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Amendment date: N/A

Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
176	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	High Rated DischargePerformanceat20°C	0.1-80 V, LC=0.1V 0.1-400 A, LC=0.01A -40°C-100°C, LC=0.05°C 10mAh to 400Ah	Cl.7.3.3 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent
177	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Charge (Capacity) Retention and Recovery	0.1-80 V, LC=0.1V 0.1-400 A, LC=0.01A -40°C-100°C, LC=0.05°C	Cl.7.4 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
178	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Charge (Capacity)Recovery after Long Term Storage	0.1-80 V, LC=0.1V 0.1-400 A, LC=0.01A -40°C-100°C, LC=0.05°C	Cl.7.5 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent
179	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Endurance in Cycles	0.1-80 V, LC=0.1V 0.1-400 A, LC=0.01A -40°C-100°C, LC=0.05°C	Cl.7.6 IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
180	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Battery Internal Resistance	0-80V, LC=0.1V 0-400A, LC=0.01A 0to24h, LC=1 sec 3 mΩ to 3000 Ω	Cl.7.7 of IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent
181	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Test protocol and conditions for type approval	Qualitative	Cl.8 IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
182	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Dimensions of the cell with a laminate film case	Qualitative	Annex A IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent
183	Secondary Cells and Batteries Containing Alkaline or other Non-Acid Electrolytes-Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells and Batteries Made from Them	Capacity after storage	Qualitative	Annex B IS 16047 (Part3):2018 / IEC 61960-3:2017	Permanent

Discipline: Electrical, **Group:** Domestic Electrical Appliances

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
184	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	General requirement	Qualitative	Cl.4 of IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.4 of IEC 60335-2-25:2024	Permanent
185	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	General condition for the test	Qualitative	Cl.5 of IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.5 of IEC 60335-2-25:2024	Permanent
186	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Classification	Qualitative	Cl.6 of IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.6 of IEC 60335-2-25:2024	Permanent
187	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Marking and instructions	Qualitative: Hexane, 0 to 24hour	Cl.7 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.7 of IEC 60335-2-25:2024	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
188	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Protection against access to live Parts	Quantitative: 0.1V to 50V, 1N to 120N	Cl.8 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.8 of IEC 60335-2-25:2024	Permanent
189	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Starting of motor operated appliances	Quantitative: 0.1V to 300V, 0.1A to 20 A	Cl.9 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.9 of IEC 60335-2-25:2024	Permanent
190	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Power input and current	0.1W to 2500 W, 0.01A to 20A	Cl.10 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.10 of IEC 60335-2-25:2024	Permanent
191	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Heating	Quantitative: 25°C to 400°C, 1µOhm to 1.999kOhm	Cl.11 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.11 of IEC 60335-2-25:2024	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
192	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Leakage current and electric strength at operating temperature	Quantitative: 0.1kv to 5kV,1mA to 100 mA	Cl.13 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.13 of IEC 60335-2-25:2024	Permanent
193	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Transient overvoltage	Quantitative: 0.1kV to 12kV, 1.2/50 µs	Cl.14 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.14 of IEC 60335-2-25:2024	Permanent
194	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Moisture Resistance	Quantitative: 15°C to 85°C, 25%RH to 99 %RH	Cl.15 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.15 of IEC 60335-2-25:2024	Permanent
195	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Leakage current and electric strength	Quantitative: 0.1kV to50KV, 1mA to 100 mA,500 Vdc	Cl.16 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.16 of IEC 60335-2-25:2024	Permanent

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Amendment date: N/A

Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
196	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Overload Protection of transformer and associated circuits	Quantitative: up to 500 V, up to400°C,1µOhm to 1.999kOhm	Cl.17 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.17 of IEC 60335-2-25:2024	Permanent
197	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Endurance	Quantitative: 0.1Vto300V, 0.1Ato 20 A,0.1w to 2500 W,0.1kV to 5 kV, 1 mA to 100 mA	Cl.18 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.18 of IEC 60335-2-25:2024	Permanent
198	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Abnormal Operation	Quantitative: 0.1 kV to 5 kV, 1 mA to 100 mA, up to 500 V, up to400°C,1µOhm to 1.999kOhm	Cl.19 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.19 of IEC 60335-2-25:2024	Permanent
199	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Stability and mechanical hazards	Quantitative: 1N to 200N, 5° to 30°	Cl.20 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.20 of IEC 60335-2-25:2024	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
200	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Mechanical strength	Quantitative: 0.05J to 2.0J, 5 kg,1N to 200N,0.1Nm to 2.5 Nm	Cl.21 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.21 of IEC 60335-2-25:2024	Permanent
201	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Construction	Qualitative: 1N to 200N, 0.01mmto 300 mm,1°C to 400 °C	Cl.22 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.22 of IEC 60335-2-25:2024	Permanent
202	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Internal wiring	Qualitative	Cl.23 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.23 of IEC 60335-2-25:2024	Permanent
203	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Components	Qualitative	Cl.24 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.24 of IEC 60335-2-25:2024	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
204	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Supply connection and external flexible cords	Quantitative: 0.01mm to 300 mm, 30N to 100N, 0.1Nm to 6 Nm	Cl.25 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.25 of IEC 60335-2-25:2024	Permanent
205	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Terminal for external conductor	Quantitative: 0.1mm to 50mm	Cl.26 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.26 of IEC 60335-2-25:2024	Permanent
206	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Provision for Earthing	Quantitative: 0.1V to 30V, 1A to 50A	Cl.27 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.27 of IEC 60335-2-25:2024	Permanent
207	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Screws and connections	Quantitative: 0.01mmto 300mm,0.1Nm to 6Nm	Cl.28 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.28 of IEC 60335-2-25:2024	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
208	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Clearances, creepage distances and solid insulation	Quantitative: 0.01mm to 300 mm	Cl.29 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.29 of IEC 60335-2-25:2024	Permanent
209	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Resistance to heat and fire	Quantitative: Dia: 5mm, 20N,0.01 mm to 300 mm, Burner Dia: 9.5 mm, Needle Dia: 0.5mm, upto 24hours, upto 960°C. 0.01mm to 300 mm	Cl.30 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.30 of IEC 60335-2-25:2024	Permanent
210	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Resistance to rusting	Quantitative: 10°C to 100°C,30 to 95 %RH	Cl.31 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.31 of IEC 60335-2-25:2024	Permanent
211	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Radiation, toxicity and Similar hazards	Qualitative	Cl.32 IS 302-2-25:2014 (Reaffirmed Year:2019), Cl.32 of IEC60335-2-25:2024	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
212	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Combination Microwave Ovens	Quantitative: 25°C to 400°C, 0.01mm to 300 mm	Annex AA of IS 302-2-25:2014 (Reaffirmed Year:2019), Annex AA of IEC60335-2-25:2024	Permanent
213	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Microwave Oven Intended to be used On Board Ship	Quantitative: 0.1mm to 50mm	Annex BB of IS 302-2-25:2014 (Reaffirmed Year:2019), Annex BB of IEC60335-2-25:2024	Permanent
214	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Environmental Testing- Test Kb: Salt Mist, Cyclic (Sodium Chloride Solution)	Quantitative: 0.1mm to 50mm	Annex CC of IS 302-2-25:2014 (ReaffirmedYear:2019), Annex CC of IEC60335-2-25:2024	Permanent
215	Safety of Household and Similar Electrical Appliances - Microwave ovens including Combination microwave oven	Charging of metal-ion batteries	Quantitative: 0.1 to 80 Vdc, 100mA to 400A, (-) 45°C to 190°C	Cl. 12 of IEC 60335-2-25: 2024	Permanent
216	Electrical & Electronic	Salt Spray/ Salt mist/ Corrosion Test	Qualitative	JSS 55555: 2020, JSS 55555: 2012, IEC 60945:2002/COR1:2008, JSS 50101: 1996 (RAF:2001), MIL STD	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
				202 G, IS 10250:1982+A1:1984+ A2:1996 (Reaffirmed Year: 2021), JSS 55555: 2020, JSS 55555: 2012, EN 50155:2026, ISO 9227:2022+A1:2024, IS 9844: 1981 (Reaffirmed Year: 2021), JSS 55555: 2012, JSS 5855-11: 2019, IS 10236: Part 1: 1989 Reaffirmed Year : 2022), IEC 60068-2-52:2017	
Discipline: Electrical, **Group**: Lamps, Luminaries & Accessories					
217	Luminaires Part 1 General Requirements and Tests	General Requirements	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 0.3	Permanent
218	Luminaires Part 1 General Requirements and Tests	General Test Requirements and Verification	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 0.4	Permanent
219	Luminaires Part 1 General Requirements and Tests	Classification of Luminaires	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 2	Permanent
220	Luminaires Part 1 General Requirements and Tests	Marking	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 3	Permanent
221	Luminaires Part 1 General Requirements and Tests	Construction	Quantitative: 0.1 Nm to 10 Nm, Force Gauge: 1 N to 500 N	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 4	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
222	Luminaires Part 1 General Requirements and Tests	External and Internal Wiring	Quantitative0.01 mm to 300 mm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 5	Permanent
223	Luminaires Part 1 General Requirements and Tests	Provision for Earthing	Quantitative0.01 V to 19.99 V, 0.001 Ohm to 0.1 Ohm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 7	Permanent
224	Luminaires Part 1 General Requirements and Tests	Protection Against Electric Shock	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kVac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 8	Permanent
225	Luminaires Part 1 General Requirements and Tests	Resistance to Dust, Solid Objects and Moisture	Quantitative: 2.5mm and 1mm probe, 0.1 to 50V, temperature: 70 to 180°C, RH:10% to 99 %, High Voltage: 0.1 kV ac to 5kVac, 0.1kVdc to 5kVdc, Tripping Current: 0 to 100mA, Time: 0 to 99s, 0.01 s to 9000 s	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 9	Permanent
226	Luminaires Part 1 General Requirements and Tests	Insulation Resistance and Electric Strength	Quantitative: 0-5 kV/ 0-100mA LC: 0.01kV/ 0.1mA 1 MOhm to 100 x 10^6 MOhm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 10	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
227	Luminaires Part 1 General Requirements and Tests	Creepage Distances and Clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 11	Permanent
228	Luminaires Part 1 General Requirements and Tests	Endurance Test and Thermal test	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 12	Permanent
229	Luminaires Part 1 General Requirements and Tests	Resistance to Heat, Fire and Tracking	Quantitative: 550 °C to 960 °C, 0.1 °C to 700 °C, 0.01 mm to 300 mm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 13	Permanent
230	Luminaires Part 1 General Requirements and Tests	Screw Terminals	Quantitative: 0.01 mm to 200 mm 0.1 °C to 400 °C 0.001 mm to 25 mm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 14	Permanent
231	Luminaires Part 1 General Requirements and Tests	Screwless Terminals and Electrical Connections	Quantitative: 0.01 mm to 200 mm 0.1 °C to 400 °C 0.001 mm to 25 mm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Clause 15	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
232	Luminaires Part 1 General Requirements and Tests	Test to establish whether a conductive part may cause an electric shock	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kVac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex A	Permanent
233	Luminaires Part 1 General Requirements and Tests	Test Lamps	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex B	Permanent
234	Luminaires Part 1 General Requirements and Tests	Abnormal Circuit Conditions	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 °C to 400 °C , 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex C	Permanent
235	Luminaires Part 1 General Requirements and Tests	Draught-Proof Enclosure	Quantitative:0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex D	Permanent
236	Luminaires Part 1 General Requirements and Tests	Determination of winding temperature rises by the increase-in-resistance method	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex E	Permanent

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Amendment date: N/A

Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
237	Luminaires Part 1 General Requirements and Tests	Test for resistance to stress corrosion of copper and copper alloys	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex F	Permanent
238	Luminaires Part 1 General Requirements and Tests	Explanation of IP numbers for degrees of protection	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex J	Permanent
239	Luminaires Part 1 General Requirements and Tests	Temperature Measurement	Quantitative:0.01 Vac/dc to 600 Vac/dc, 0.01 A ac/dc to 20 A ac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex K	Permanent
240	Luminaires Part 1 General Requirements and Tests	Guide to good practice in luminaire design	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex L	Permanent
241	Luminaires Part 1 General Requirements and Tests	Determination of creepage distances and clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex M	Permanent
242	Luminaires Part 1 General Requirements and Tests	Explanation of Luminaire F Marking	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex N	Permanent
243	Luminaires Part 1 General Requirements and Tests	Requirements for the protective shield to be fitted to luminaires designed for metal halide lamps for protective measures against UV Radiation	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex P	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
244	Luminaires Part 1 General Requirements and Tests	Conformity testing during manufacture	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex Q	Permanent
245	Luminaires Part 1 General Requirements and Tests	Schedule of amended sub clauses containing more serious or critical requirements which require products to be retested	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex R	Permanent
246	Luminaires Part 1 General Requirements and Tests	Requirements for the identification of a family or range of luminaires for type testing	Qualitative	IS 10322 (Part 1): 2014+A1:2018 (RAF:2019) Annex S	Permanent
247	Fixed General Purpose Luminaires	General Test requirements	Qualitative	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 4	Permanent
248	Fixed General Purpose Luminaires	Classification of Luminaires	Qualitative	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 5	Permanent
249	Fixed General Purpose Luminaires	Marking	Qualitative	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 6	Permanent
250	Fixed General Purpose Luminaires	Construction	Quantitative:0.1 Nm to 10 Nm, Force Gauge: 1 N to 500 N	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 7	Permanent
251	Fixed General Purpose Luminaires	Creepage Distances and clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 8	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
252	Fixed General Purpose Luminaires	Provision for Earthing	Quantitative: 0.01 V to 19.99 V, 0.001 Ohm to 0.1 Ohm	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 9	Permanent
253	Fixed General Purpose Luminaires	Terminals	Quantitative:0.01 mm to 200 mm 0.1 °C to 400 °C 0.001 mm to 25 mm	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 10	Permanent
254	Fixed General Purpose Luminaires	External and Internal Wiring	Quantitative: 1 N to 100 N 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 11	Permanent
255	Fixed General Purpose Luminaires	Protection Against Electric Shock	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kVac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 12	Permanent
256	Fixed General Purpose Luminaires	Endurance Tests and Thermal Tests	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 13	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
257	Fixed General Purpose Luminaires	Resistance to Dust, Solid Objects and Moisture	Quantitative: 2.5mm and 1mm probe, 0.1 to 50V, temperature: 70 to 180°C, RH:10% to 99 %, High Voltage: 0.1 kV ac to 5kVac, 0.1kVdc to 5kVdc, Tripping Current: 0 to 100mA, Time: 0 to 99s, 0.01 s to 9000 s	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 14	Permanent
258	Fixed General Purpose Luminaires	Insulation Resistance and Electric Strength	Quantitative: 0-5 kV/ 0-100mA LC: 0.01kV/ 0.1mA 0 to 100X10^6MΩ	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 15	Permanent
259	Fixed General Purpose Luminaires	Resistance to Heat, Fire and Tracking	Quantitative: 550 °C to 960 °C, 0.1 °C to 700 °C, 0 to 300 mm	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 16	Permanent
260	Fixed General Purpose Luminaires	Photometric Test	Quantitative: 0.1 lm to 250000 lm, 1 cd to 250000 cd	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Clause 17	Permanent
261	Fixed General Purpose Luminaires	Photometric Data	Qualitative	IS 10322 (Part 5/Sec 1):2012 (RAF:2017) Annex A	Permanent
262	RECESSED LUMINAIRES	General test requirements	Qualitative	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 4	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
263	RECESSED LUMINAIRES	Classification of luminaires	Qualitative	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 5	Permanent
264	RECESSED LUMINAIRES	Marking	Qualitative	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 6	Permanent
265	RECESSED LUMINAIRES	Construction	Quantitative: 0.1 Nm to 10 Nm Force Gauge: 1 N to 500 N	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 7	Permanent
266	RECESSED LUMINAIRES	Creepage distances and Clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 8	Permanent
267	RECESSED LUMINAIRES	Provision for earthing	Quantitative: 0.01 V to 19.99 V, 0.001 Ohm to 0.1 Ohm	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 9	Permanent
268	RECESSED LUMINAIRES	Terminals	Quantitative: 0.01 mm to 200 mm 0.1 °C to 400 °C 0.001 mm to 25 mm	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 10	Permanent
269	RECESSED LUMINAIRES	External and Internal Wiring	Quantitative: 1 N to 100 N 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 11	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
270	RECESSED LUMINAIRES	Protection against electric shock	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kVac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 12	Permanent
271	RECESSED LUMINAIRES	Endurance tests and Thermal tests	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 13	Permanent
272	RECESSED LUMINAIRES	Resistance to Dust and Moisture	Quantitative: 2.5mm and 1mm probe, 0.1 to 50V, temperature: 70 to 180°C, RH:10% to 99 %, High Voltage: 0.1 kV ac to 5kVac, 0.1kVdc to 5kVdc, Tripping Current: 0 to 100mA, Time: 0 to 99s, 0.01 s to 9000 s	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 14	Permanent
273	RECESSED LUMINAIRES	Insulation Resistance and Electric Strength	Quantitative: 0-5 kV/ 0-100mA LC: 0.01kV/ 0.1mA 1 MOhm to 100 x 10^6 MOhm	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 15	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
274	RECESSED LUMINAIRES	Resistance to Heat, Fire and Tracking	Quantitative: 0.01 mm to 300 mm, 550°C to 960 °C, 0.1 °C to 700 °C	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 16	Permanent
275	RECESSED LUMINAIRES	Photometric Test	Quantitative: 1 lm to 250000 lm, 1 cd to 250000 cd	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Clause 17	Permanent
276	RECESSED LUMINAIRES	Measurement of ambient temperature in an installation	Qualitative	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Annex A	Permanent
277	RECESSED LUMINAIRES	Photometric Data	Qualitative	IS 10322 (Part 5/Sec 2):2012+A1:2015 (RAF:2017) Annex B	Permanent
278	Luminaire For Road and Street Lighting	General Test Requirements	Qualitative	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 4	Permanent
279	Luminaire For Road and Street Lighting	Classification of Luminaires	Qualitative	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 5	Permanent
280	Luminaire For Road and Street Lighting	Marking	Qualitative	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 6	Permanent
281	Luminaire For Road and Street Lighting	Construction	Quantitative: 0.1 Nm to 10 Nm, Force Gauge: 1N to 500N	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 7	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
282	Luminaire For Road and Street Lighting	Creepage Distance and Clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 8	Permanent
283	Luminaire For Road and Street Lighting	Provision for Earthing	Quantitative: 0.01 V to 19.99 V, 0.001 Ohm to 0.1 Ohm	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 9	Permanent
284	Luminaire For Road and Street Lighting	Terminals	Quantitative: 0.01 mm to 200 mm 0.1 °C to 400 °C 0.001 mm to 25 mm	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 10	Permanent
285	Luminaire For Road and Street Lighting	External and Internal Wiring	Quantitative: 1 N to 100 N 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 11	Permanent
286	Luminaire For Road and Street Lighting	Protection Against Electric Shock	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kVac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 12	Permanent
287	Luminaire For Road and Street Lighting	Endurance Tests and Thermal Tests	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 13	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
288	Luminaire For Road and Street Lighting	Resistance to Dust and Moisture	Quantitative: 2.5mm and 1mm probe, 0.1 to 50V, temperature: 70 to 180°C, RH:10% to 99 %, High Voltage: 0.1 kV ac to 5kVac, 0.1kVdc to 5kVdc, Tripping Current: 0 to 100mA, Time: 0 to 99s, 0.01 s to 9000 s	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 14	Permanent
289	Luminaire For Road and Street Lighting	Insulation Resistance and Electric Strength	Quantitative: 0-5 kV/ 0-100mA LC: 0.01kV/ 0.1mA 0 to 100X10^6MΩ	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 15	Permanent
290	Luminaire For Road and Street Lighting	Resistance to Heat, Fire and Tracking	Quantitative: 550 °C to 960 °C, 0.1 °C to 700 °C, 0 to 300 mm	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 16	Permanent
291	Luminaire For Road and Street Lighting	Photometric Test	Quantitative: 0.01 lm to 250000 lm, 1 cd to 250000 cd	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Clause 17	Permanent
292	Luminaire For Road and Street Lighting	Drag coefficient measurement	Qualitative	IS 10322 (Part 5/Sec 3):2012+A1:2015 (RAF:2024) Annex A	Permanent
293	Floodlights	General Test Requirements	Qualitative	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 4	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
294	Floodlights	Classification of Luminaires	Qualitative	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 5	Permanent
295	Floodlights	Marking	Qualitative	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 6	Permanent
296	Floodlights	Construction	Quantitative: 0.1 Nm to 10 Nm, Force Gauge: 1 N to 500 N	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 7	Permanent
297	Floodlights	Creepage Distance and Clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 8	Permanent
298	Floodlights	Provision for Earthing	Quantitative: 0.01 V to 19.99 V, 0.001 Ohm to 0.1 Ohm	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 9	Permanent
299	Floodlights	Terminals	Quantitative: 0.01 mm to 200 mm 0.1 °C to 400 °C 0.001 mm to 25 mm	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 10	Permanent
300	Floodlights	External and Internal Wiring	Quantitative: 1 N to 100 N 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 11	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
301	Floodlights	Protection Against Electric Shock	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kVac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 12	Permanent
302	Floodlights	Endurance Tests and Thermal Tests	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 13	Permanent
303	Floodlights	Resistance to Dust and Moisture	Quantitative: 2.5mm and 1mm probe, 0.1 to 50V, temperature: 70 to 180°C, RH:10% to 99 %, High Voltage: 0.1 kV ac to 5kVac, 0.1kVdc to 5kVdc, Tripping Current: 0 to 100mA, Time: 0 to 99s, 0.01 s to 9000 s	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 14	Permanent
304	Floodlights	Insulation Resistance and Electric Strength	Quantitative: 0-5 kV/ 0-100mA LC: 0.01kV/ 0.1mA 0 to 100X10^6MΩ	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 15	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
305	Floodlights	Resistance to Heat, Fire and Tracking	Quantitative: 550 °C to 960 °C, 0.1°C to 700 °C 0 to 300 mm	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 16	Permanent
306	Floodlights	Photometric Requirements	Quantitative: 0.01lm to 250000 lm, 1 cd to 250000 cd	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Clause 17	Permanent
307	Floodlights	Photometric Test for Floodlights	Qualitative	IS 10322 (Part 5/Sec 5):2013+A1:2018 (RAF:2018) Annex A	Permanent
308	HANDLAMPS	General Test Requirements	Qualitative	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 4	Permanent
309	HANDLAMPS	Classification of Luminaires	Qualitative	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 5	Permanent
310	HANDLAMPS	Marking	Qualitative	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 6	Permanent
311	HANDLAMPS	Construction	Quantitative: 0.1 Nm to 10 Nm, Force Gauge: 1N to 500N	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 7	Permanent
312	HANDLAMPS	Creepage Distance and Clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 8	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
313	HANDLAMPS	Provision for Earthing	Quantitative: 0.01 V to 19.99 V, 0.001 Ohm to 0.1 Ohm	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 9	Permanent
314	HANDLAMPS	Terminals	Quantitative: Qualitative :0.01 mm to 200 mm 0.1 °C to 400 °C 0.001 mm to 25 mm	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 10	Permanent
315	HANDLAMPS	External and Internal Wiring	Quantitative: 1 N to 100 N 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 11	Permanent
316	HANDLAMPS	Protection Against Electric Shock	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kVac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 12	Permanent
317	HANDLAMPS	Endurance Tests and Thermal Tests	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 13	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
318	HANDLAMPS	Resistance to Dust and Moisture	Quantitative: 2.5mm and 1mm probe, 0.1 to 50V, temperature: 70 to 180°C, RH:10% to 99 %, High Voltage: 0.1 kV ac to 5kVac, 0.1kVdc to 5kVdc, Tripping Current: 0 to 100mA, Time: 0 to 99s, 0.01 s to 9000 s	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 14	Permanent
319	HANDLAMPS	Insulation Resistance and Electric Strength	Quantitative: 0-5 kV/ 0-100mA LC: 0.01kV/ 0.1mA 0 to 100X106MΩ	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 15	Permanent
320	HANDLAMPS	Resistance to Heat, Fire and Tracking	Quantitative: 550 °C to 960 °C, 0.1 °C to 700 °C, 0 to 300 mm	IS 10322 (Part 5/ Sec 6): 2013+A1:2022 (RAF:2018) Clause 16	Permanent
321	Lighting Chains	General test requirements	Qualitative	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.4	Permanent
322	Lighting Chains	Classification of luminaires	Qualitative	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.5	Permanent
323	Lighting Chains	Marking	Qualitative	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.6	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
324	Lighting Chains	Construction	Quantitative: 0.1 Nm to 10 Nm, Force Gauge: 1 N to 500 N	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.7	Permanent
325	Lighting Chains	Creepage distances and clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.8	Permanent
326	Lighting Chains	Terminals	Quantitative: :0.01 mm to 200 mm 0.1 °C to 400 °C 0.001 mm to 25 mm	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.10	Permanent
327	Lighting Chains	External and Internal wiring	Quantitative: 1 N to 100 N	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.11	Permanent
328	Lighting Chains	Protection against electric shock	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 k Vac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.12	Permanent
329	Lighting Chains	Endurance tests and thermal tests	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 A ac/dc to 20 A ac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.13	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
330	Lighting Chains	Resistance to dust, solid objects and moisture	Quantitative: 2.5mm and 1mm probe, 0.1 to 50V, temperature: 70 to 180°C, RH:10% to 99 %, High Voltage: 0.1 kV ac to 5kVac, 0.1kVdc to 5kVdc, Tripping Current: 0 to 100mA, Time: 0 to 99s, 0.01 s to 9000 s	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.14	Permanent
331	Lighting Chains	Insulation Resistance and Electric Strength	Quantitative: 0-5 kV/ 0-100mA LC: 0.01kV/ 0.1mA 0 to 100X10^6MΩ	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.15	Permanent
332	Lighting Chains	Resistance to Heat, Fire and Tracking	Quantitative: 550 °C to 960 °C, 0.1 °C to 700 °C	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Clause 20.16	Permanent
333	Lighting Chains	Requirements for interconnecting connectors for use in lighting chain	Quantitative: 0-5 kV/ 0-100mA LC: 0.01kV/ 0.1mA 0 to 100X10^6MΩ	IS 10322 (Part 5 Sec 7):2017 IEC 60598-2-20:2014 Annex A	Permanent
334	Emergency lighting	General Test Requirements	Qualitative	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 4	Permanent
335	Emergency lighting	Classification of Luminaires	Qualitative	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 5	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
336	Emergency lighting	Marking	Qualitative	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 6	Permanent
337	Emergency lighting	Construction	Quantitative: 0.1 Nm to 10 Nm, Force Gauge: 1 N to 500 N	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 7	Permanent
338	Emergency lighting	Creepage Distance and Clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 8	Permanent
339	Emergency lighting	Provision of Earthing	Quantitative: 0.01 V to 19.99 V, 0.001 Ohm to 0.1 Ohm	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 9	Permanent
340	Emergency lighting	Terminals	Quantitative: 0.01 mm to 200 mm 0.1 °C to 400 °C 0.001 mm to 25 mm	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 10	Permanent
341	Emergency lighting	External and Internal Wiring	Quantitative: 1 N to 100 N 0 to 300 mm LC: 0.01 mm	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 11	Permanent
342	Emergency lighting	Protection Against Electric Shock	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kVac/dc, 0.1mA to 10mA, 10 msto 9000 s, 0.1 N to 300 N	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 12	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
343	Emergency lighting	Endurance Test and Thermal test	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 13	Permanent
344	Emergency lighting	Resistance to Dust and Moisture	Quantitative: 2.5mm and 1mm probe, 0.1 to 50V, temperature: 70 to 180°C, RH:10% to 99 %, High Voltage: 0.1 kV ac to 5kVac, 0.1kVdc to 5kVdc, Tripping Current: 0 to 100mA, Time: 0 to 99s, 0.01 s to 9000 s	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 14	Permanent
345	Emergency lighting	Insulation Resistance and Electric Strength	Quantitative: 0-5 kV/ 0-100mA LC: 0.01kV/ 0.1mA 0 to 100X10^6MΩ	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 15	Permanent
346	Emergency lighting	Resistance to Heat, Fire and Tracking	Quantitative: 550 °C to 960 °C, 0.1 °C to 700 °C, 0 to 300 mm	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 16	Permanent
347	Emergency lighting	Functional Safety	Qualitative	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 17	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
348	Emergency lighting	Changeover Operation	Quantitative: Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02Ohm to 2 Mohm	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 18	Permanent
349	Emergency lighting	High Temperature Operation	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 19	Permanent
350	Emergency lighting	Battery Charges for Self-contained Emergency Luminaires	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 20	Permanent
351	Emergency lighting	Test Devices for Emergency Operation	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 10322 (Part 5/ Sec 8):2013 (RAF:2018) Clause 21	Permanent
352	Emergency lighting	Rest Model and Inhibition Mode Facilities	Qualitative	IS 10322 (Part 5/ Sec 8):2013 Clause 22	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
353	Emergency lighting	Luminaire Classification	Qualitative	IS 10322 (Part 5/ Sec 8):2013 Annex A	Permanent
354	Emergency lighting	Batteries for Emergency Luminaires	Qualitative	IS 10322 (Part 5/ Sec 8):2013 Annex B	Permanent
355	Emergency lighting	Luminance Measurement	Qualitative	IS 10322 (Part 5/ Sec 8):2013 Annex C	Permanent
356	Emergency lighting	Rest Model and Inhibition Mode Facilities	Qualitative	IS 10322 (Part 5/ Sec 8):2013 Annex D	Permanent
357	Safety of Lamp Control Gear General Requirement	General Requirements	Qualitative	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 4	Permanent
358	Safety of Lamp Control Gear General Requirement	Classification	Qualitative	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 6	Permanent
359	Safety of Lamp Control Gear General Requirement	Marking	Qualitative	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 7	Permanent
360	Safety of Lamp Control Gear General Requirement	Terminals	Quantitative: 0.01 mm to 300 mm	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 8	Permanent
361	Safety of Lamp Control Gear General Requirement	Provision for Earthing	Quantitative: 0.01 V to 19.99 V, 0.001 Ohm to 0.1 Ohm	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 9	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
362	Safety of Lamp Control Gear General Requirement	Protection Against Accidental Contact with Live Parts	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kVac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 10	Permanent
363	Safety of Lamp Control Gear General Requirement	Moisture Resistance and Insulation	Quantitative: 2.5mm and 1mm probe, 0.1 to 50V, temperature: 70 to 180°C, RH:10% to 99 %, 0 to 100X10^6MΩ	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 11	Permanent
364	Safety of Lamp Control Gear General Requirement	Electric Strength	Quantitative: High Voltage: 0.1 kV ac to 5kVac, 0.1kVdc to 5kVdc, Tripping Current: 0 to 100mA, Time: 0 to 99s, 0.01 s to 9000 s	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 12	Permanent
365	Safety of Lamp Control Gear General Requirement	Thermal Endurance Test for Winding of Ballast	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 A ac/dc to 20 A ac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 13	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
366	Safety of Lamp Control Gear General Requirement	Fault Condition	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kV ac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 14	Permanent
367	Safety of Lamp Control Gear General Requirement	Construction	Qualitative	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 15	Permanent
368	Safety of Lamp Control Gear General Requirement	Creepage Distances and Clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 16	Permanent
369	Safety of Lamp Control Gear General Requirement	Screw, Current-Carrying Parts and Connections	Quantitative: 0.01 mm to 200 mm 0.1 °C to 400 °C 0.001 mm to 25 mm	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 17	Permanent
370	Safety of Lamp Control Gear General Requirement	Resistance to Heat, Fire and Tracking	Quantitative: 550 °C to 960 °C, 0.1 °C to 700 °C, 0 to 300 mm	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 18	Permanent
371	Safety of Lamp Control Gear General Requirement	Resistance to Corrosion	Qualitative	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Clause 19	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
372	Safety of Lamp Control Gear General Requirement	Particular requirements for thermally protected lamp control gear	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 A ac/dc to 20 A ac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Annex B	Permanent
373	Safety of Lamp Control Gear General Requirement	Particular requirements for electronic lamp control gear with means of protection against overheating	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 A ac/dc to 20 A ac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Annex C	Permanent
374	Safety of Lamp Control Gear General Requirement	Requirements for carrying out the heating tests of thermally protected lamp control gear	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Annex D	Permanent
375	Safety of Lamp Control Gear General Requirement	Use of constant s other than 4 500 in Tw tests	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Annex E	Permanent
376	Safety of Lamp Control Gear General Requirement	Draught-proof enclosure	Qualitative	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Annex F	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
377	Safety of Lamp Control Gear General Requirement	Explanation of the derivation of the values of pulse voltages	Qualitative	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Annex G	Permanent
378	Safety of Lamp Control Gear General Requirement	test schedule/classification and sample requirements for controlgear	Qualitative	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Annex H	Permanent
379	Safety of Lamp Control Gear General Requirement	Particular additional requirements For SELV Control Gears Providing SELV	Quantitative: 0.01 V ac/dc to 600 V ac/dc, 0.01 A ac/dc to 20 A ac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 15885 (Part 1) 2011+A1:2015 (RAF:2021) Annex M	Permanent
380	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	General Requirements	Qualitative	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 4	Permanent
381	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Classification	Qualitative	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 6	Permanent
382	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Marking	Qualitative	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 7	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
383	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Protection Against Accidental Contact with Live Parts	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kVac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 8	Permanent
384	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Terminals	Quantitative: 0.01 mm to 300 mm	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 9	Permanent
385	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Provision for Earthing	Quantitative: 0.01 V to 19.99 V, 0.001 Ohm to 0.1 Ohm	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 10	Permanent
386	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Moisture Resistance and Insulation	Quantitative: 2.5mm and 1mm probe, 0.1 to 50V, temperature: 70 to 180°C, RH:10% to 99 %, 0 to 100X10^6MΩ	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 11	Permanent
387	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Electric Strength	Quantitative: High Voltage: 0.1 kV ac to 5kVac, 0.1kVdc to 5kVdc, Tripping Current: 0 to 100mA, Time: 0 to 99s, 0.01 s to 9000 s	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 12	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
388	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Thermal Endurance Test for Winding of Ballast	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 13	Permanent
389	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Fault Condition	Quantitative: 0.1 N to 300 N, 0.01 mm to 300 mm, 0.1 kV to 5 kVac/dc, 0.1mA to 10mA, 10 ms to 9000 s, 0.1 N to 300 N	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 14	Permanent
390	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Transformer Heating	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 15	Permanent
391	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Construction	Qualitative	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 16	Permanent
392	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Creepage Distances and Clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 17	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
393	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Screw, Current-Carrying Parts and Connections	Quantitative: Qualitative :0.01 mm to 200 mm 0.1 °C to 400 °C 0.001 mm to 25 mm	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 18	Permanent
394	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Resistance to Heat, Fire and Tracking	Quantitative: 550 °C to 960 °C, 0.1 °C to 700 °C, 0 to 300 mm	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 19	Permanent
395	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Resistance to Corrosion	Qualitative	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 20	Permanent
396	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	All Type tests	Qualitative	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Clause 21	Permanent
397	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Test to establish whether a conductive part is a live part which may cause an electric shock	Qualitative	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Annex A	Permanent
398	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Particular requirements for thermally protected lamp control gear	Quantitative: 0.01 V ac/dc to 600 V ac/dc, 0.01 A ac/dc to 20 A ac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Annex B	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
399	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Particular requirements for electronic lamp control gear with means of protection against overheating	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Annex C	Permanent
400	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Requirements for carrying out the heating tests of thermally protected lamp control gear	Quantitative: 0.01 Vac/dc to 600 Vac/dc, 0.01 Aac/dc to 20 Aac/dc, 0.01 W to 5 kW, 15 °C to 200 °C, 0.02 Ohm to 2 Mohm	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Annex D	Permanent
401	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Use of constant s other than 4 500 in Tw tests	Qualitative	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Annex E	Permanent
402	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Draught-proof enclosure	Qualitative	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Annex F	Permanent
403	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Explanation of the derivation of the values of pulse voltages	Qualitative	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Annex G	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
404	Safety of lamp control gear- D.C. or A.C. supplied electronic control gear for LED module	Verification of Test Mounting and Supply Conditions	Qualitative	IS 15885 (Part 2/Sec 13): 2012+A1:2015 (RAF:2017) Annex H	Permanent
405	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	General Requirement and General Test Requirements	Qualitative	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 4	Permanent
406	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Marking	Qualitative	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 5	Permanent
407	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Interchange Ability	Quantitative: 0.001-10 kg 0-10kg / 10-50kg LC: 5g/10g	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 6	Permanent
408	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Protection Against Accidental Contact with Live Parts	Quantitative: 0-500N LC: 0.1N 0-50 VAC LC: 2V 0-5 kV/ 0-100mA	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 7	Permanent
409	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Insulation Resistance and Electric Strength After Humidity Treatment	Quantitative: Amb to 80°C, 0-99%RH LC: 0.1°C, 0.1%RH 0-5 kV/ 0-100mA LC: 0.01kV/ 0.1mA 0 to 100X10^6MΩ	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 8	Permanent

Scope of Accreditation for Testing

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Certificate No.: T-0065

Issue date : 22.06.2026
Validity : 21.06.2030
Amendment date: N/A

Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
410	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Mechanical Strength	Qualitative	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 9	Permanent
411	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Cap Temperature Rise	Quantitative: 25 °C to 200 °C	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 10	Permanent
412	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Resistance to Heat	Quantitative: Ambient - 300°C 20N ± 0.1N 0 to 300 mm LC: 0.01 mm LC: 0.1°C	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 11	Permanent
413	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Resistance to Flame and Ignition	Quantitative: 0-960°C/ LC: 1°C 0-999sec 1 Sec	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 12	Permanent
414	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Fault Conditions	Qualitative: Voltage AC: 0.01 V to 600 V, current: 0.01 A to 20 A, Wattage: 0.01W to 6 kW, Temperature: 25 °C to 200 °C,	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 13	Permanent
415	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Creepage Distances and Clearances	Quantitative: 0 to 300 mm LC: 0.01 mm	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 14	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
416	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Selection of Lamps for Tests (Sampling)	Qualitative	IS 16102: Part 1: 2012+A1+A2:2015+ A3:2020 (RAF:2017) Clause 15	Permanent
417	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Conditions of Compliance	Qualitative	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 16	Permanent
418	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	All Type tests	Qualitative	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Clause 17	Permanent
419	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Overview of Systems Composed of Led Modules and Control gear	Qualitative	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Annex A	Permanent
420	Self-Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Lamps With Operating Position Limitations	Qualitative	IS 16102: Part 1: 2012+A1+A2:2015+A3 :2020 (RAF:2017) Annex B	Permanent
421	DC or AC Supplied Control Gear for LED modules (Performance Requirement)	Classification	Qualitative	IS 16104:2012 (RAF 2017), IEC 62384:2020 Clause 5	Permanent
422	DC or AC Supplied Control Gear for LED modules (Performance Requirement)	Marking	Qualitative	IS 16104:2012 (RAF 2017), IEC 62384:2020 Clause 6	Permanent

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Sr. No.	Product or material or equipment used for test	Type of test performed/ characteristic	Range/ limit of detection	Standard specifications/ Equipment/Techniques used	Facility
423	DC or AC Supplied Control Gear for LED modules (Performance Requirement)	Output Voltage and Current	Quantitative: 1-300V, 10mA-10A LC: 1V, 0.01A 0.1V-1000V,0.01A-10A LC: 0.1V, 0.01A	IS 16104:2012 (RAF 2017), IEC 62384:2020 Clause 7	Permanent
424	DC or AC Supplied Control Gear for LED modules (Performance Requirement)	Total Circuit Power	Quantitative: 1 W to 2500 W	IS 16104:2012 (RAF 2017), IEC 62384:2020 Clause 8	Permanent
425	DC or AC Supplied Control Gear for LED modules (Performance Requirement)	Circuit Power Factor	Quantitative: 0.1 pf to 1 pf	IS 16104:2012 (RAF 2017), IEC 62384:2020 Clause 9	Permanent
426	DC or AC Supplied Control Gear for LED modules (Performance Requirement)	Supply Current	Quantitative: 0.01 A to 10 A	IS 16104:2012 (RAF 2017), IEC 62384:2020 Clause 10	Permanent
427	DC or AC Supplied Control Gear for LED modules (Performance Requirement)	Operational Test for Abnormal Condition	Quantitative: 0.01 V ac/dc to 600 V ac/dc, 0.01 A ac/dc to 20 A ac/dc, 0.01 W to 5 kW	IS 16104:2012 (RAF 2017), IEC 62384:2020 Clause 12	Permanent
428	DC or AC Supplied Control Gear for LED modules (Performance Requirement)	Endurance	Qualitative	IS 16104:2012 (RAF 2017), IEC 62384:2020 Clause 13	Permanent
429	DC or AC Supplied Control Gear for LED modules (Performance Requirement)	Measurement of RMS Output Current	Qualitative	IS 16104:2012 (RAF 2017), IEC 62384:2020 Annex A	Permanent