



Federation for Development of Accreditation Services

CERTIFICATE OF ACCREDITATION **(AS PER ISO/IEC 17025:2017)**

This is to attest that

M/s Planet Electro Labs

WZ-407/B-1, Basai Darapur, Near Ramesh Nagar Metro Station,
New Delhi-110015

Testing Laboratory


has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for testing laboratories.

Certificate Number: TL-108

Issue Date: 28-12-2022

Valid Until: 27-12-2024

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS (scope of accreditation also displayed at www.fdasindia.org).


DEVI SARAN TEWARI
Director



Federation for Development of Accreditation Services

SCOPE OF ACCREDITATION

Laboratory Name Planet Electro Labs
WZ-407/B-1, Basai Darapur, New Ramesh Nagar Metro Station
New Delhi-110015

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TL- 108 Page No.: 1/36

Validity 28-12-2022 to 27-12-2024 Last Amended on

ELECTRICAL TESTING

Laboratory based Testing

Group- Environmental Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
1	Degrees of Protection provided by Electronics (IP Code)	1 st Characteristics numeral IP1X to IP6X	Cl.5 of IS/IEC 60529 (Ra:2019):2001	--
		2 nd Characteristic numeral IPX1 to IPX8	Cl.6 of IS/IEC 60529 (Ra:2019):2001	--
		Additional letter (Optional) A, B, C, D	Cl.7 of IS/IEC 60529 (Ra:2019):2001	--

Group-Illuminating Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
1	Fixed General Purpose Luminaires	Marking	Cl.6 of IS 10322 (Part5/Section 1): 2012/ IEC 60598-2-1:2020	--
		Construction	Cl.7 of IS 10322 (Part5/Section 1): 2012/ IEC 60598-2-1:2020	--
		Creepage distance and clearances	Cl.8 of IS 10322 (Part5/Section 1): 2012/ IEC 60598-2-1:2020	--


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ELECTRICAL TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Provision for earthing	Cl.9 of IS 10322 (Part5/Section 1): 2012/ IEC 60598-2-1:2020	--
		Terminals	Cl.10 of IS 10322 (Part5/Section 1): 2012/ IEC 60598-2-1:2020	--
		External and internal wiring	Cl.11 of IS 10322 (Part5/Section 1): 2012/ IEC 60598-2-1:2020	--
		Protection against electric shock	Cl.12 of IS 10322 (Part5/Section 1): 2012/ IEC 60598-2-1:2020	--
		Endurance test and thermal test	Cl.13 of IS 10322 (Part5/Section 1): 2012/ IEC 60598-2-1:2020	--
		Resistance to dust, solid objects, and moisture	Cl.14 of IS 10322 (Part5/Section 1): 2012/ IEC 60598-2-1:2020	--

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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Insulation Resistance and electric strength	Cl.15 of IS 10322 (Part5/Section 1): 2012/ IEC 60598-2-1:2020	--
		Resistance to heat, Fire and tracking	Cl.16 of IS 10322 (Part5/Section 1): 2012/ IEC 60598-2-1:2020	--
2	D.C or A.C. Supplied Electronic Control gear for LED Modules	Classification	Cl.6 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
		Marking	Cl.7 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
		Protection against accidental contact with live parts	Cl.8 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--

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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Terminals	Cl.9 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
		Provision for protective earthing	Cl.10 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
		Moisture resistance and insulation	Cl.11 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
		Electric Strength	Cl.12 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
		Thermal endurance test for windings of ballasts	Cl.13 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--


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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Fault Condition	Cl.14 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
		Transformer heating	Cl.15 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
		Construction	Cl.16 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
		Creepage distance and clearance	Cl.17 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
		Screw, Current carrying parts, and Connections	Cl.18 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--


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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Resistance to heat, fire and tracking	Cl.19 of IS 15885 (Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
		Resistance to corrosion	Cl.20 of IS 15885(Part 2/Sec 13):2012+A1:2015/ IEC 61347 (Part2/Sec 13):2014+A1:2017	--
3	Self-Ballasted LED Lamps for General Lighting Services	Marking	Cl. 5 of IS 16102(Part 1):2012+A1+A2:201 5+A3:2020/ IEC 62560:2011 +A1:2015	--
		Interchangeability	Cl.6 of IS 16102(Part 1):2012+A1+A2:201 5+A3:2020/ IEC 62560:2011 +A1:2015	--
		Protection against electric shock	Cl. 7 of IS 16102 (Part1):2012+A1+A2: 2015+A3:2020/ IEC 62560:2011 +A1:2015	--


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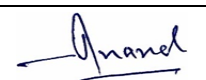
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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Insulation Resistance and Electric strength after humidity	Cl.8 of IS 16102 (Part1):2012+A1+A2: 2015+A3:2020/ IEC 62560:2011 +A1:2015	--
		Mechanical Strength	Cl.9 of IS 16102 (Part1):2012+A1+A2: 2015+A3:2020/ IEC 62560:2011 +A1:2015	--
		Cap Temperature Rise	Cl.10 of IS 16102 (Part1):2012+A1+A2: 2015+A3:2020/ IEC 62560:2011 +A1:2015	--
		Resistance to heat	Cl.11 of IS 16102 (Part1):2012+A1+A2: 2015+A3:2020/ IEC 62560:2011 +A1:2015	--
		Resistance to flame and ignition	Cl.12 of IS 16102 (Part1):2012+A1+A2: 2015+A3:2020/ IEC 62560:2011 +A1:2015	--


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S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Fault Condition	Cl.13 of IS 16102 (Part1):2012+A1+A2: 2015+A3:2020/ IEC 62560:2011 +A1:2015	--
		Creepage distance and Clearances	Cl.14 of IS 16102 (Part1):2012+A1+A2: 2015+A3:2020/ IEC 62560:2011 +A1:2015	--
4	Emergency lighting	Marking	Cl.6 of IS 10322 (Part 5/Sec 8):2013/ IEC60598-2-22:2013	--
		Construction	Cl.7 of IS 10322 (Part 5/Sec 8):2013/ IEC60598-2-22:2013	--
		Creepage distances and clearances	Cl.8 of IS 10322 (Part 5/Sec 8):2013/ IEC60598-2-22:2013	--
		Provision for Earthing	Cl.9 of IS 10322 (Part 5/Sec 8):2013/ IEC60598-2-22:2013	--
		Terminals	Cl.10 of IS 10322 (Part 5/Sec 8):2013/ IEC60598-2-22:2013	--


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S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		External and Internal wiring	Cl.11 of IS 10322 (Part 5/Sec 8):2013/ IEC60598-2-22:2013	--
		Protection against electric shock	Cl.12 of IS 10322 (Part 5/Sec 8):2013/ IEC60598-2-22:2013	--
		Endurance test and Thermal test	Cl.13 of IS 10322 (Part 5/Sec 8):2013/ IEC60598-2-22:2013	--
		Resistance to dust and moisture	Cl.14 of IS 10322 (Part 5/Sec 8):2013/ IEC60598-2-22:2013	--
		Insulation resistance and electric strength	Cl.15 of IS 10322 (Part 5/Sec 8):2013/ IEC60598-2-22:2013	--
		Resistance to heat, fire and tracking	Cl.16 of IS 10322 (Part 5/Sec 8):2013/ IEC60598-2-22:2013	--
5	Flood lights	Marking	Cl. 6 of IS 10322 (Part 5/Sec 5):2013 +A1:2018/ IEC 60598-2-5:2015	--
		Construction	Cl. 7 of IS 10322 (Part 5/Sec 5):2013 +A1:2018/ IEC 60598-2-5:2015	--


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S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Creepage distances and clearances	Cl.8 of IS 10322 (Part 5/Sec 5):2013 +A1:2018/ IEC 60598-2-5:2015	--
		Provision for earthing	Cl.9 of IS 10322 (Part 5/Sec 5):2013 +A1:2018/ IEC 60598-2-5:2015	--
		Terminals	Cl. 10 of IS 10322 (Part 5/Sec 5):2013 +A1:2018/ IEC 60598-2-5:2015	--
		External and internal wiring	Cl. 11 of IS 10322 (Part 5/Sec 5):2013 +A1:2018/ IEC 60598-2-5:2015	--
		Protection against electric shock	Cl. 12 of IS 10322 (Part 5/Sec 5):2013 +A1:2018/ IEC 60598-2-5:2015	--
		Endurance test and Thermal test	Cl. 13 of IS 10322 (Part 5/Sec 5):2013 +A1:2018/ IEC 60598-2-5:2015	--

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S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Resistance to dust, solid objects and moisture	Cl.14 of IS 10322 (Part 5/Sec 5):2013 +A1:2018/ IEC 60598-2-5:2015	--
		Insulation resistance and electric strength	Cl.15 of IS 10322 (Part 5/Sec 5):2013 +A1:2018/ IEC 60598-2-5:2015	--
		Resistance to heat, fire and tracking	Cl. 16 of IS 10322 (Part 5/Sec 5):2013 +A1:2018/ IEC 60598-2-5:2015	--
		Photometric test	Cl. 17 of IS 10322 (Part 5/Sec 5):2013+ A1:2018/ IEC 60598-2-5:2015	--
6	Hand lamps	Marking	Cl. 6 of IS 10322 (Part 5/Sec 6):2013/ IEC 60598-2-8:2013	--
		Construction	Cl. 7 of IS 10322 (Part 5/Sec 6):2013/ IEC 60598-2-8:2013	--

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S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Creepage distances and clearances	Cl. 8 of IS 10322 (Part 5/Sec 6):2013/ IEC 60598-2-8:2013	--
		Terminals	Cl. 10 of IS 10322 (Part 5/Sec 6):2013/ IEC 60598-2-8:2013	--
		External and Internal Wiring	Cl. 11 of IS 10322 (Part 5/Sec 6):2013/ IEC 60598-2-8:2013	--
		Protection against electric shock	Cl. 12 of IS 10322 (Part 5/Sec 6):2013/ IEC 60598-2-8:2013	--
		Endurance and Thermal	Cl. 13 of IS 10322 (Part 5/Sec 6):2013/ IEC 60598-2-8:2013	--
		Resistance to dust, solid objects and moisture	Cl. 14 of IS 10322 (Part 5/Sec 6):2013/ IEC 60598-2-8:2013	--

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S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Insulation resistance and electric strength	Cl. 15 of IS 10322 (Part 5/Sec 6):2013/ IEC 60598-2-8:2013	--
		Resistance to heat, Fire and tracking	Cl. 16 of IS 10322 (Part 5/Sec 6):2013/ IEC 60598-2-8:2013	--
7	Lighting Chains	Marking	Cl. 20.6 of IS 10322 (Part 5/Sec 7):2017/ IEC 60598-2-20:2014	--
		Construction	Cl. 20.7 of IS 10322 (Part 5/Sec 7):2017/ IEC 60598-2-20:2014	--
		Creepage distances and clearances	Cl. 20.8 of IS 10322 (Part 5/Sec 7):2017/ IEC 60598-2-20:2014	--
		Terminals	Cl. 20.10 of IS 10322 (Part 5/Sec 7):2017/ IEC 60598-2-20:2014	--

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S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		External and Internal Wiring	Cl. 20.11 of IS 10322 (Part 5/Sec 7):2017/IEC 60598-2-20:2014	--
		Protection against Electric Shock	Cl. 20.12 of IS 10322 (Part 5/Sec 7):2017/IEC 60598-2-20:2014	--
		Endurance Test and Thermal Test	Cl. 20.13 of IS 10322 (Part 5/Sec 7):2017/IEC 60598-2-20:2014	--
		Resistance to dust, solid objects and moisture	Cl. 20.14 of IS 10322 (Part 5/Sec 7):2017/IEC 60598-2-20:2014	--
		Insulation resistance and electric strength	Cl. 20.15 of IS 10322 (Part 5/Sec 7):2017/IEC 60598-2-20:2014	--
		Resistance to heat, fire and tracking	Cl. 20.16 of IS 10322 (Part 5/Sec 7):2017/IEC 60598-2-20:2014	--

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ELECTRICAL TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
8	Portable General- Purpose Luminaires	Marking	Cl. 5 of IS 10322 (Part 5/Sec 4):1987+A1:1995/ IEC 60598-2-4:2017	--
		Construction	Cl. 6 of IS 10322 (Part 5/Sec 4):1987+A1:1995/ IEC 60598-2-4:2017	--
		Creepage distances and clearances	Cl. 7 of IS 10322 (Part 5/Sec 4):1987+A1:1995/ IEC 60598-2-4:2017	--
		Provision for earthing	Cl. 8 of IS 10322 (Part 5/Sec 4):1987+A1:1995/ IEC 60598-2-4:2017	--
		Terminals	Cl. 9 of IS 10322 (Part 5/Sec 4):1987+A1:1995/ IEC 60598-2-4:2017	--
		External and Internal Wiring	Cl. 10 of IS 10322 (Part 5/Sec 4):1987+A1:1995/ IEC 60598-2-4:2017	--


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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Protection against Electric Shock	Cl. 11 of IS 10322 (Part 5/Sec 4):1987+A1:1995/ IEC 60598-2-4:2017	--
		Endurance & thermal test	Cl. 13.4 of IS 10322 (Part 5/Sec 4):1987+A1:1995/ IEC 60598-2-4:2017	--
		Resistance to dust, solid objects and moisture	Cl. 13.5 of IS 10322 (Part 5/Sec 4):1987+A1:1995/ IEC 60598-2-4:2017	--
		Insulation resistance and electric strength	Cl. 13.6 of IS 10322 (Part 5/Sec 4):1987+A1:1995/ IEC 60598-2-4:2017	--
		Resistance to heat, fire and tracking	Cl. 13.7 of IS 10322 (Part 5/Sec 4):1987+A1:1995/ IEC 60598-2-4:2017	--
9	Recessed Luminaires	Marking	Cl. 6 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--


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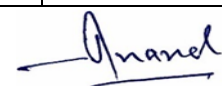
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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Construction	Cl. 7 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--
		Creepage distances and clearances	Cl. 8 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--
		Provision for Earthing	Cl. 9 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--
		Terminals	Cl. 10 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--
		External and Internal Wiring	Cl.11 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--
		Protection against electric shock	Cl. 12 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--


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S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Endurance test and Thermal test	Cl. 13 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--
		Resistance to dust, solid objects, and moisture	Cl. 14 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--
		Insulation resistance and electric strength	Cl. 15 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--
		Resistance to heat, Fire and Tracking	Cl. 16 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--
		Photometric test	Cl. 17 of IS 10322 (Part 5/Sec 2):2012 +A1:2015/ IEC 60598:2-2:2011	--

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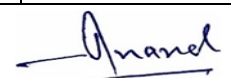
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S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
10	Road and Street luminaires	Marking	Cl. 6 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--
		Construction	Cl.7 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--
		Creepage distances and clearances	Cl. 8 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--
		Provision for Earthing	Cl. 9 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--
		Terminals	Cl. 10 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--


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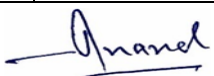
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ELECTRICAL TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		External and Internal Wiring	Cl. 11 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--
		Protection against electric shock	Cl. 12 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--
		Endurance and Thermal test	Cl.13 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--
		Resistance to dust, solid objects and moisture	Cl. 14 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--
		Insulation resistance and electric strength	Cl.15 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--


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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Resistance to heat, Fire and Tracking	Cl.16 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--
		Photometric test	Cl. 17 of IS 10322 (Part 5/ Sec 3):2012 +A1:2015/ IEC 60598-2-3:2002 +A1:2011	--
11	Rope lights	Marking	Cl. 21.6 of IS 10322 (Part 5/Sec 9):2017/ IEC 60598-2-21:2014	--
		Construction	Cl. 21.7 of IS 10322 (Part 5/Sec 9):2017/ IEC 60598-2-21:2014	--
		Creepage distances and clearances	Cl. 21.8 of IS 10322 (Part 5/Sec 9):2017/ IEC 60598-2-21:2014	--
		Terminals	Cl. 21.10 of IS 10322 (Part 5/Sec 9):2017/ IEC 60598-2-21:2014	--

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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		External and Internal Wiring	Cl. 21.11 of IS 10322 (Part 5/Sec 9):2017/ IEC 60598-2-21:2014	--
		Protection against Electric Shock	Cl. 21.12 of IS 10322 (Part 5/Sec 9):2017/ IEC 60598-2-21:2014	--
		Endurance and Thermal test	Cl. 21.13 of IS 10322 (Part 5/Sec 9):2017/ IEC 60598-2-21:2014	--
		Resistance to dust, solid objects and moisture	Cl. 21.14 of IS 10322 (Part 5/Sec 9):2017/ IEC 60598-2-21:2014	--
		Insulation resistance and electric strength	Cl. 21.15 of IS 10322 (Part 5/Sec 9):2017/ IEC 60598-2-21:2014	--
		Resistance to heat, Fire and Tracking	Cl. 21.16 of IS 10322 (Part 5/Sec 9):2017/ IEC 60598-2-21:2014	--

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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
12	Self-Ballasted LED Modules for General Lighting Purposes	Marking	Cl. 7 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--
		Terminals	Cl.8 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--
		Provision for protective earthing	Cl. 9 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--
		Protection against accidental contact to live Parts	Cl.10 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--
		Moisture Resistance and insulation	Cl. 11 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--


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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Electric Strength	Cl. 12 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--
		Fault Condition	Cl. 13 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--
		Construction	Cl. 15 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--
		Creepage distances and clearances	Cl. 16 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--
		Screws, current carrying parts and connections	Cl. 17 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--


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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Resistance to heat, fire and tracking	Cl. 18 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--
		Resistance to corrosion	Cl. 19 of IS 16103 (Part1):2012 +A1:2014/ IEC 62031:2008 +A1:2013+A2:2014	--
		Heat management	Cl. 20 of IS 16103 (Part1):2012 +A1:2014/IEC 62031:2008+A1:201 3+A2:2014	--

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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
1	Information technology equipments	Power interface	Cl. 1.6 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Marking and instructions	Cl. 1.7 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Protection from electric shock and energy hazards	Cl. 2.1 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		SELV Circuits	Cl.2.2 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--


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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		TNV Circuits	Cl. 2.3 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Limited current circuits	Cl. 2.4 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Limited power sources	Cl. 2.5 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Provision for earthing and earth bonding	Cl. 2.6 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--

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S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Over current and earth fault protection in primary circuits	Cl. 2.7 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Safety interlocks	Cl. 2.8 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Electric insulation	Cl. 2.9 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Clearances, creepage distances and distances through insulation	Cl. 2.10 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--

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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Wiring, connections, and supply	Cl. 3.0 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Connection to a mains supply	Cl. 3.2 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Wiring terminals for connection of external conductors	Cl. 3.3 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Disconnection from mains supply	Cl. 3.4 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--

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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Interconnection of equipment	Cl. 3.5 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Stability	Cl. 4.1 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Mechanical Strength	Cl. 4.2 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Design and construction	Cl. 4.3 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--

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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Protection against hazardous moving parts	Cl. 4.4 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Thermal requirements	Cl. 4.5 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Opening in Enclosure	Cl. 4.6 of IS 13252 (Part1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Resistance to fire	Cl. 4.7 of IS 13252 (Part1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--

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ELECTRONICS TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Touch current and protective conductor current	Cl. 5.1 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Electric Strength	Cl. 5.2 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Abnormal operating and fault conditions	Cl. 5.3 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Protection of telecommunication network service person, and user of other equipments connected to the network, from hazards in equipments	Cl. 6.1 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--


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ELECTRONICS TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Protection of equipment user from over voltage on telecommunication networks	Cl. 6.2 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--
		Protection of telecommunication wiring system from overheating	Cl. 6.3 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005+ A1:2009+A2:2013	--
		Connection of cable distribution system	Cl. 7.0 of IS 13252 (Part 1):2010 +A1:2013+A2:2015/ IEC 60950-1:2005 +A1:2009+A2:2013	--

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OPTICAL & PHOTOMETRY TESTING

Laboratory based Testing

Group: Photometry

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
1	Electrical and photometric measurements of solid-state lighting products	Electrical instrumentation	Cl. 8 of IES LM 79 2019	--
		The Methods for total Luminous flux measurements	Cl. 9 of IES LM 79 2019/ Cl. 11 of IS 16106:2012	--
		Luminous intensity distribution	Cl.10 of IES LM 79 2019/ Cl. 12 of IS 16106:2012	--
		Luminous efficacy	Cl.11 of IES LM 79 2019/ Cl. 13 of IS 16106:2012	--
		Color Characteristics of SSL products	Cl. 12 of IES LM 79 2019/ Cl. 14 of IS 16106:2012	--
2	Self-Ballasted LED lamps for general lighting services	Marking	Cl. 5 of IS 16102 (Part2):2017 +A1:2020/ IEC 62612:2013 +A1:2015+A2:2018	--


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OPTICAL & PHOTOMETRY TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Dimensions	Cl. 6 of IS 16102 (Part2):2017 +A1:2020/ IEC 62612:2013 +A1:2015+A2:2018	--
		Test conditions	Cl. 7 of IS 16102 (Part2):2017 +A1:2020/ IEC 62612:2013 +A1:2015+A2:2018	--
		Lamp Input	Cl. 8 of IS 16102 (Part2):2017 +A1:2020/ IEC 62612:2013 +A1:2015+A2:2018	--
		Light output	Cl. 9 of IS 16102 (Part2):2017 +A1:2020/ IEC 62612:2013 +A1:2015+A2:2018	--
		Color nomenclature, variation and rendering	Cl. 10 of IS 16102 (Part2):2017 +A1:2020/ IEC 62612:2013 +A1:2015+A2:2018	--


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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Lamp life	Cl. 11 of IS 16102 (Part2):2017 +A1:2020/ IEC 62612:2013 +A1:2015+A2:2018	--
3	LED Luminaire	Marking	Cl. 4 of IS 16107 (Part 2/Sec 1):2012	--
		Test conditions	Cl. 6 of IS 16107 (Part 2/Sec 1):2012	--
		Total input power	Cl. 7 of IS 16107 (Part 2/Sec 1):2012	--
		Light output	Cl. 8 of IS 16107 (Part 2/Sec 1):2012	--
		Chromaticity coordinates, correlated colour temperature and colour rendering	Cl. 9 of IS 16107 (Part 2/Sec 1):2012	--
		LED Luminaire life	Cl. 10 of IS 16107 (Part 2/Sec 1):2012	--

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