

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

**Planet Electro Labs Private Limited**

WZ-407/B-1, Basai Darapur,  
New Delhi-110015, India

has been assessed and accredited in accordance with the Standard  
**ISO/IEC 17025:2017**

“General Requirements for the Competence of Testing and Calibration Laboratories”  
In the field of  
**Testing**

This certificate remains valid for the Scope of Accreditation as specified  
in the annexure subject to continued compliance to the above standard &  
any other requirements specified by QAI.



**QAI/CIA/TL/2023/0006**

(Date of First Accreditation: 16 February 2023 - 15 February 2025)

Valid from: 16 February 2025

Valid until: 15 February 2027

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

**Prof. Vikram Kumar**  
Chair, CIA

User is advised to verify the current scope of accreditation by visiting our website: [www.qai.org.in](http://www.qai.org.in)



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**Scope of Accreditation**  
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QAI/CIA/TL/2023/0006

Date of First Accreditation: 16 February 2023-15 February 2025

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
1.	Household and Similar Electrical Appliances	Marking	Cl.7 of IS 302-1:2008/ IEC/EN 60335-1:2020
2.		Protection Against Access to Live Parts	Cl.8 of IS 302-1:2008/ IEC/EN 60335-1:2020
3.		Power Input and Current	Cl.10 of IS 302-1:2008/ IEC/EN 60335-1:2020
4.		Heating	Cl.11 of IS 302-1:2008/ IEC/EN 60335-1:2020
5.		Leakage Current and Electric Strength at Operating temperature	Cl.13 of IS 302-1:2008/ IEC/EN 60335-1:2020
6.		Transient Over Voltage	Cl.14 of IS 302-1:2008/ IEC/EN 60335-1:2020
7.		Moisture Resistance	Cl.15 of IS 302-1:2008/ IEC/EN 60335-1:2020
8.		Leakage Current and Electric Strength	Cl.16 of IS 302-1:2008/ IEC/EN 60335-1:2020
9.		Overload Protection of Transformer and Associated Circuit	Cl.17 of IS 302-1:2008/ IEC/EN 60335-1:2020
10.		Endurance	Cl.18 of IS 302-1:2008/ IEC/EN 60335-1:2020
11.		Abnormal Operation	Cl.19 of IS 302-1:2008/ IEC/EN 60335-1:2020

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
12.	Household and Similar Electrical Appliances	Stability And Mechanical Hazards	Cl.20 of IS 302-1:2008/ IEC/EN 60335-1:2020
13.		Mechanical Strength	Cl.21 of IS 302-1:2008/ IEC/EN 60335-1:2020
14.		Construction	Cl.22 of IS 302-1:2008/ IEC/EN 60335-1:2020
15.		Internal Wiring	Cl.23 of IS 302-1:2008/ IEC/EN 60335-1:2020
16.		Components	Cl.24 of IS 302-1:2008/ IEC/EN 60335-1:2020
17.		Supply Connection and External Flexible Cords	Cl.25 of IS 302-1:2008/ IEC/EN 60335-1:2020
18.		Terminals For External Conductors	Cl.26 of IS 302-1:2008/ IEC/EN 60335-1:2020
19.		Provision For Earthing	Cl.27 of IS 302-1:2008/ IEC/EN 60335-1:2020
20.		Screws And Conditions	Cl.28 of IS 302-1:2008/ IEC/EN 60335-1:2020
21.		Clearance, Creepage Distances and Solid insulation	Cl.29 of IS 302-1:2008/ IEC/EN 60335-1:2020
22.		Resistance to Heat and Fire	Cl.30 of IS 302-1:2008/ IEC/EN 60335-1:2020
23.		Resistance To Rusting	Cl.31 of IS 302-1:2008/ IEC/EN 60335-1:2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
24.	Household and Similar Electrical Appliances	Radiation, Toxicity and Similar Hazards	Cl.32 of IS 302-1:2008/ IEC/EN 60335-1:2020



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Lamps, Luminaries and Accessories</b>		
1.	General purpose luminaires	Marking	Cl.6 of IS 10322 (Part-5/Section-1):2012/ IEC 60598-2-1:2020
2.		Construction	Cl.7 of IS 10322 (Part-5/Section-1):2012/ IEC 60598-2-1:2020
3.		Creepage Distances and Clearances	Cl.8 of IS 10322 (Part-5/Section-1):2012/ IEC 60598-2-1:2020
4.		Provision for Earthing	Cl.9 of IS 10322 (Part-5/Section-1):2012/ IEC 60598-2-1:2020
5.		Terminals	Cl.10 of IS 10322 (Part-5/Section-1):2012/ IEC 60598-2-1:2020
6.		External and Internal Wiring	Cl.11 of IS10322 (Part-5/Section-1):2012/ IEC 60598-2-1:2020
7.		Protection Against Electric Shock	Cl.12 of IS 10322 (Part-5/Section-1):2012/ IEC 60598-2-1:2020
8.		Endurance Test and Thermal Test	Cl.13 of IS 10322 (Part-5/Section-1):2012/ IEC 60598-2-1:2020
9.		Resistance to Dust, Solid Objects and Moisture	Cl.14 of IS 10322(Part-5/Section-1):2012/ IEC 60598-2-1:2020
10.		Insulation Resistance and Electric Strength	Cl.15 of IS 10322 (Part-5/Section-1):2012/ IEC 60598-2-1:2020
11.		Resistance To Heat, Fire and Tracking	Cl.16 of IS10322 (Part-5/Section-1):2012/ IEC 60598-2-1:2020

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaries and Accessories		
12.	D.C. Supplied Electronic Control gear for LED Modules	Classification	Cl. 6 of IS 15885 (Part-2/Section-13):2012 +A1:2015/ IEC 61347 (Part-2/Section-13): 2014 +A1:2017
13.		Marking	Cl. 7 of IS 15885 (Part-2/Section-13):2012 +A1:2015/ IEC 61347 (Part2/Section13): 2014 +A1:2017
14.		Protection against Accidental Contact with Live Parts	Cl. 8 of IS 15885 (Part-2/Section-13):2012 +A1:2015/ IEC 61347 (Part-2/section-13):2014+A1:2017
15.		Terminals	Cl. 9 of IS 15885 (Part-2/Section-13):2012 +A1:2015/ IEC 61347 (Part2/Section13): 2014+A1:2017
16.		Provision for Protective Earthing	Cl.10 of IS 15885 (Part-2/Section-13): 2012 +A1:2015/ IEC 61347 (Part-2/section-13): 2014+A1:2017
17.		Moisture Resistance and Insulation	Cl.11 of IS 15885 (Part-2/Section-13):2012 +A1:2015/ IEC 61347(Part-2/Section-13): 2014+A1:2017
18.		Electric Strength	Cl.12 of IS 15885 (Part-2/Section-13): 2012 +A1:2015/ IEC 61347 (Part-2/Section-13): 2014+A1:2017

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	Lamps, Luminaries and Accessories		
19.	D.C. Supplied Electronic Control gear for LED Modules	Thermal Endurance Test for Windings of Ballasts	Cl. 13 of IS 15885 (Part-2/Section-13):2012 +A1:2015/ IEC 61347 (Part-2/section-13): 2014+A1:2017
20.		Fault Condition	Cl.14 of IS15885 (Part-2/section-13):2012 +A1:2015/ IEC 61347 (Part-2/Section-13): 2014+ A1:2017
21.		Transformer heating	Cl.15 of IS15885 (Part-2/Section-13):2012 +A1:2015/ IEC 61347 (Part-2/section-3): 2014+A1:2017
22.		Construction	Cl.16 of IS 15885 (Part-2/Section-13):2012 +A1:2015/ IEC 61347 (Part-2/section-13): 2014+A1:2017
23.		Creepage distances and clearance	Cl.17of IS15885 (Part-2/Section-13):2012 +A1:2015/ IEC61347 (Part-2/section-13): 2014+A1:2017
24.		Screws, Current carrying parts and Connections	Cl.18 of IS15885 (Part-2/Section-13):2012 +A1:2015/ IEC 61347 (Part-2/ section-13): 2014+A1:2017
25.		Resistance to Heat, Fire and Tracking	Cl.19 of IS 15885 (Part-2/Section-13):2012 +A1:2015/ IEC 61347 (Part-2/section-13): 2014+A1:2017

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	<b>Lamps, Luminaries and Accessories</b>		
26.	D.C. Supplied Electronic Control gear for LED Modules	Resistance to Corrosion	Cl.20 of IS 15885 (Part-2/Section-13):2012 +A1:2015/ IEC 61347 (Part-2/section-13): 2014+A1:2017
27.	Self - Ballasted LED Lamps for General Lighting	Marking	Cl.5 of IS 16102 (Part-1):2012+A1+A2:2015 +A3:2020/ IEC 62560:2011+A1:2015
28.		Interchangeability	Cl.6 of IS 16102 (Part-1):2012+A1+A2:2015 +A3:2020/ IEC 62560:2011+A1:2015
29.		Protection against Electric Shock	Cl.7 of IS 16102 (Part-1):2012+A1+A2:2015 +A3:2020/ IEC 62560:2011+A1:2015
30.		Insulation Resistance and Electric Strength after Humidity	Cl.8 of IS 16102 (Part-1):2012+A1+A2:2015 +A3:2020/ IEC 62560:2011+A1:2015
31.		Mechanical Strength	Cl.9 of IS 16102 (Part-1):2012+A1+A2:2015 +A3:2020/ IEC 62560:2011+A1:2015
32.		Cap Temperature Rise	Cl.10 of IS 16102 (Part-1):2012+A1+A2:2015 +A3:2020/ IEC 62560:2011+A1:2015
33.		Resistance to Heat	Cl.11 of IS 16102 (Part-1):2012+A1+A2:2015 +A3:2020/ IEC 62560:2011+A1:2015

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Lamps, Luminaries and Accessories</b>		
34.	Self - Ballasted LED Lamps for General Lighting  Emergency Lighting	Resistance to Flame and Ignition	Cl.12 of IS 16102 (Part-1):2012+A1+A2:2015 +A3:2020/ IEC 62560:2011+A1:2015
35.		Fault Condition	Cl.13 of IS 16102 (Part-1):2012+A1+A2:2015 +A3:2020/ IEC 62560:2011+A1:2015
36.		Creepage Distance and Clearances	Cl.14 of IS 16102 (Part-1):2012+A1+A2:2015 +A3:2020/ IEC 62560:2011+A1:2015
37.		Marking	Cl.6 of IS 10322 (Part-5/Section-8):2013 / IEC 60598-2-22:2013
38.		Construction	Cl.7 of IS 10322 (Part-5/Section-8):2013 / IEC 60598-2-22:2013
39.		Creepage Distances and Clearances	Cl.8 of IS 10322 (Part-5/Section-8):2013 / IEC 60598-2-22:2013
40.		Provision for Earthing	Cl.9 of IS 10322 (Part-5/Section-8):2013 / IEC 60598-2-22:2013
41.		Terminals	Cl.10 of IS 10322 (Part-5/Section-8):2013 / IEC 60598-2-22:2013 IEC 60598-2-22:2013
42.		External and Internal Wiring	Cl.11 of IS 10322 (Part-5/Section-8):2013 / IEC 60598-2-22:2013
43.		Protection against Electric Shock	Cl.12 of IS 10322 (Part-5/Section-8):2013 / IEC 60598-2-22:2013

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaries and Accessories		
44.	Emergency Lighting	Endurance Test and Thermal Test	Cl.13 of IS 10322 (Part-5/Section-8):2013 / IEC 60598-2-22:2013
45.		Resistance to Dust and Moisture	Cl.14 of IS 10322 (Part-5/Section-8):2013 / IEC 60598-2-22:2013
46.		Insulation Resistance and Electric Strength	Cl.15 of IS 10322 (Part-5/Section-8):2013 / IEC 60598-2-22:2013
47.		Resistance to Heat, Fire and Tracking	Cl.16 of IS 10322 (Part-5/Section-8):2013 / IEC 60598-2-22:2013
48.	Flood light	Marking	Cl.6 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015
49.		Construction	Cl.7 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015
50.		Creepage Distances and Clearances	Cl.8 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015
51.		Provision for Earthing	Cl.9 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015
52.		Terminals	Cl.10 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015
53.		External and Internal Wiring	Cl.11 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015
54.		Protection against Electric Shock	Cl.12 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015
55.		Endurance Test and Thermal Test	Cl.13 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaries and Accessories		
56.	Flood light	Resistance to Dust, Solid Objects and Moisture	Cl.14 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015
57.		Insulation Resistance and Electric Strength	Cl.15 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015
58.		Resistance To Heat, Fire and Tracking	Cl.16 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015
59.		Photometric Test	Cl.17 of IS 10322 (Part-5/Section-5):2013 +A1:2018/ IEC 60598-2-5:2015
60.	Handlamps	Marking	Cl.6 IS 10322 (Part-5/Section-6):2013 / IEC 60598-2-8:2013
61.		Construction	Cl.7 IS 10322 (Part-5/Section-6):2013 / IEC 60598-2-8:2013
62.		Creepage Distances and Clearances	Cl.8 IS 10322 (Part-5/Section-6):2013 / IEC 60598-2-8:2013
63.		Terminals	Cl.10 IS 10322 (Part-5/Section-6):2013 / IEC 60598-2-8:2013
64.		External and Internal wiring	Cl.11 IS 10322 (Part-5/Section-6):2013 / IEC 60598-2-8:2013
65.		Protection against Electric Shock	Cl.12 IS 10322 (Part-5/Section-6):2013 / IEC 60598-2-8:2013
66.		Endurance and Thermal	Cl.13 IS 10322 (Part-5/Section-6):2013 / IEC 60598-2-8:2013
67.		Resistance to Dust, Solid Objects and Moisture	Cl.14 IS 10322 (Part-5/Section-6):2013 / IEC 60598-2-8:2013

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	<b>Lamps, Luminaries and Accessories</b>		
68.	Handlamps	Insulation Resistance and Electric Strength	Cl.15 IS 10322 (Part-5/Section-6):2013 / IEC 60598-2-8:2013
69.		Resistance To Heat, Fire and Tracking	Cl.16 IS 10322 (Part-5/Section-6):2013 / IEC 60598-2-8:2013
70.	Lighting Chains	Marking	Cl.20.6 of IS 10322 (Part-5/Section-7):2017/ IEC 60598-2-20:2014
71.		Construction	Cl.20.7 of IS 10322 (Part-5/Section-7):2017/ IEC 60598-2-20:2014
72.		Creepage Distances and Clearances	Cl.20.8 of IS 10322 (Part-5/Section-7):2017/ IEC 60598-2-20:2014
73.		Terminals	Cl.20.10 of IS 10322 (Part-5/Section-7):2017/ IEC 60598-2-20:2014
74.		External and Internal Wiring	Cl.20.11 of IS 10322 (Part-5/Section-7):2017/ IEC 60598-2-20:2014
75.		Protection against Electric shock	Cl.20.12 of IS 10322 (Part-5/Section-7):2017/ IEC 60598-2-20:2014
76.		Endurance Test and Thermal Test	Cl.20.13 of IS 10322 (Part-5/Section-7):2017/ IEC 60598-2-20:2014
77.		Resistance To Dust, Solid Object and Moisture	Cl.20.14 of IS 10322 (Part-5/Section-7):2017/ IEC 60598-2-20:2014
78.		Insulation Resistance and Electric Strength	Cl.20.15 of IS 10322 (Part-5/Section-7):2017/ IEC 60598-2-20:2014
79.		Resistance to Heat, Fire and Tracking	Cl.20.16 of IS 10322 (Part-5/Section-7):2017/ IEC 60598-2-20:2014

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	Lamps, Luminaries and Accessories		
80.	Portable general-purpose luminaires	Marking	Cl.5 of IS 10322 (Part-5/Section-4):1987 +A1:1995/ IEC 60598-2-4:2017
81.		Construction	Cl.6 of IS 10322 (Part-5/Section-4):1987 +A1:1995/ IEC 60598-2-4:2017
82.		Creepage Distances and Clearances	Cl.7 of IS 10322 (Part-5/Section-4):1987 +A1:1995/ IEC 60598-2-4:2017
83.		Provision for Earthing	Cl.8 of IS 10322 (Part-5/Section-4):1987 +A1:1995/ IEC 60598-2-4:2017
84.		Terminals	Cl.9 of IS 10322 (Part-5/Section-4):1987 +A1:1995/ IEC 60598-2-4:2017
85.		External and Internal Wiring	Cl.10 of IS 10322 (Part-5/Section-4):1987 +A1:1995/ IEC 60598-2-4:2017
86.		Protection against Electric Shock	Cl.11 of IS 10322 (Part-5/Section-4):1987 +A1:1995/ IEC 60598-2-4:2017
87.		Endurance & Thermal test	Cl.13.4 of IS 10322 (Part-5/Section-4):1987 +A1:1995/ IEC 60598-2-4:2017
88.		Resistance to Dust, Solid Objects and Moisture	Cl.13.5 of IS 10322 (Part-5/Section-4):1987 +A1:1995/ IEC 60598-2-4:2017
89.		Insulation Resistance and Electric Strength	Cl.13.6 of IS 10322 (Part-5/Section-4):1987 +A1:1995/ IEC 60598-2-4:2017
90.	Resistance To Heat, Fire and Tracking	Cl.13.7 of IS 10322 (Part-5/Section-4):1987 +A1:1995/ IEC 60598-2-4:2017	
91.	Recessed Luminaires	Marking	Cl. 6 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598:2-2:2011

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Lamps, Luminaires and Accessories</b>		
92.	Recessed Luminaires	Construction	Cl. 7 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598-2-2:2011
93.		Creepage distances and clearances	Cl. 8 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598-2-2:2011
94.		Provision for Earthing	Cl. 9 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598-2-2:2011
95.		Terminals	Cl. 10 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598-2-2:2011
96.		External and Internal wiring	Cl. 11 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598-2-2:2011
97.		Protection against electric shock	Cl. 12 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598-2-2:2011
98.		Endurance Test and Thermal Test	Cl. 13 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598-2-2:2011
99.		Resistance To Dust, Solid Objects and Moisture	Cl. 14 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598-2-2:2011
100.		Insulation Resistance and Electric Strength	Cl. 15 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598-2-2:2011
101.		Resistance to Heat, Fire and Tracking	Cl. 16 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598-2-2:2011
102.		Photometric Test	Cl. 17 of IS 10322 (Part-5/Section-2):2012 +A1:2015/ IEC 60598-2-2:2011
103.	Luminaires for Road and Street Lighting	Marking	Cl. 6 of IS 10322 (Part-5/Section-3):2012 +A1:2015 / IEC 60598-2-3:2002+A1:2011

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QAI/CIA/TL/2023/0006

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaries and Accessories		
104.	Luminaires for Road and Street Lighting	Construction	Cl. 7 of IS 10322 (Part 5/Section-3):2012+A1:2015/IEC 60598-2-3:2002+A1:2011
105.		Creepage distances and clearances	Cl. 8 of IS 10322 (Part 5/Section-3):2012+A1:2015 / IEC 60598-2-3:2002+A1:2011
106.		Provision for Earthing	Cl. 9 of IS 10322 (Part 5/Section-3):2012+A1:2015 / IEC 60598-2-3:2002+A1:2011
107.		Terminals	Cl. 10 of IS 10322 (Part 5/Section-3):2012+A1:2015 / IEC 60598-2-3:2002+A1:2011
108.		External and Internal wiring	Cl. 11 of IS 10322 (Part 5/Section-3):2012+A1:2015 / IEC 60598-2-3:2002+A1:2011
109.		Protection against electric shock	Cl. 12 of IS 10322 (Part 5/Section-3):2012+A1:2015 / IEC 60598-2-3:2002+A1:2011
110.		Endurance Test and Thermal Test	Cl. 13 of IS 10322 (Part 5/Section-3):2012+A1:2015 / IEC 60598-2-3:2002+A1:2011
111.		Resistance to dust, solid objects and moisture	Cl. 14 of IS 10322 (Part 5/Section-3):2012+A1:2015 / IEC 60598-2-3:2002+A1:2011

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Lamps, Luminaries and Accessories</b>		
112.	Luminaires for Road and Street Lighting	Insulation Resistance and Electric Strength	Cl. 15 of IS 10322 (Part 5/Section-3):2012+A1:2015 / IEC 60598-2-3:2002+A1:2011
113.		Resistance To Heat, Fire and Tracking	Cl. 16 of IS 10322 (Part 5/Section-3):2012+A1:2015 / IEC 60598-2-3:2002+A1:2011
114.		Photometric Test	Cl. 17 of IS 10322 (Part 5/Section-3):2012+A1:2015 / IEC 60598-2-3:2002+A1:2011
115.	Rope Lights	Marking	Cl. 21.6 of IS 10322 (Part-5/Section-9):2017/ IEC 60598-2-21:2014
116.		Construction	Cl. 21.7 of IS 10322 (Part-5/Section-9):2017/ IEC 60598-2-21:2014
117.		Creepage Distances and Clearances	Cl. 21.8 of IS 10322 (Part-5/Section-9):2017/ IEC 60598-2-21:2014
118.		Terminals	Cl. 21.10 of IS 10322 (Part-5/Section-9):2017/ IEC 60598-2-21:2014
119.		External and Internal Wiring	Cl. 21.11 of IS 10322 (Part-5/Section-9):2017/ IEC 60598-2-21:2014
120.		Protection against Electric shock	Cl. 21.12 of IS 10322 (Part-5/Section-9):2017/ IEC 60598-2-21:2014
121.		Endurance and Thermal	Cl. 21.13 of IS 10322 (Part-5/Section-9):2017/ IEC 60598-2-21:2014

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaries and Accessories		
122.	Rope Lights	Resistance to Dust, Solid object and Moisture	Cl. 21.14 of IS 10322 (Part-5/Section-9):2017/ IEC 60598-2-21:2014
123.		Insulation Resistance and Electric Strength	Cl. 21.15 of IS 10322 (Part-5/Section-9):2017/ IEC 60598-2-21:2014
124.		Resistance To Heat, Fire and Tracking	Cl. 21.16 of IS 10322 (Part-5/Section-9):2017/ IEC 60598-2-21:2014
125.	LED Modules for General Lighting	Marking	Cl. 7 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
126.		Terminals	Cl. 8 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
127.		Provision for Protective Earthing	Cl. 9 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
128.		Protection against Accidental Contact to Live Parts	Cl. 10 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
129.		Moisture Resistance and Insulation	Cl. 11 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
130.		Electric Strength	Cl. 12 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaries and Accessories		
131.	LED Modules for General Lighting	Fault Condition	Cl. 13 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
132.		Construction	Cl. 15 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
133.		Creepage Distances and Clearances	Cl. 16 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
134.		Screws, Current carrying parts and Connections	Cl. 17 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
135.		Resistance to Heat, Fire and Tracking	Cl. 18 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
136.		Resistance to Corrosion	Cl. 19 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
137.		Heat management	Cl. 20 of IS 16103 (Part-1):2012+A1:2014 / IEC 62031:2008+A1:2013+A2:2014
138.	D.C. or A.C. Supplied Electronic Control Gear for LED Modules	Marking	Cl.6 of IS 16104: 2012/ IS/IEC 62384:2006
139.		Output Voltage and Current	Cl.7 of IS 16104:2012/ IS/IEC 62384:2006

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaries and Accessories		
140.	D.C. or A.C. Supplied Electronic Control Gear for LED Modules	Total Circuit Power	Cl.8 of IS 16104:2012/ IS/IEC 62384 :2006
141.		Circuit Power Factor	Cl.9 of IS 16104:2012 / IS/IEC 62384:2006
142.		Supply Current	Cl.10 of IS 16104:2012/ IS/IEC 62384:2006
143.		Endurance	Cl.13 of IS 16104:2012 / IS/IEC 62384:2006



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Test Facility</b>		
1.	Photovoltaic (PV) modules	Visual Inspection	Cl.4.1 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
2.		Maximum Power Determination	Cl.4.2 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
3.		Insulation Test	Cl.4.3 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
4.		Measurement of Temperature Coefficients	Cl.4.4 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
5.		Performance At STC	Cl.4.6 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
6.		Performance At Low Irradiance	Cl.4.7 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
7.		Outdoor Exposure Test	Cl.4.8 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
8.		Hot – Spot Endurance Test	Cl.4.9 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
9.		UV Preconditioning	Cl.4.10 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
10.		Thermal Cycling Test	Cl.4.11 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
11.		Humidity Freeze Test	Cl.4.12 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
12.		Damp Heat Test	Cl.4.13 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Test Facility		
13.	Photovoltaic (PV) modules	Robustness Of Termination	Cl.4.14 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
14.		Wet Leakage Current Test	Cl.4.15 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
15.		Static Mechanical Load Test	Cl.4.16 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
16.		Hail Test	Cl.4.17 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
17.		Bypass Diode Thermal Test	Cl.4.18 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
18.		Stabilization	Cl.4.19 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
19.		Cyclic (Dynamic) Mechanical Load Test	Cl.4.20 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
20.		Potential Induced Degradation Test	Cl.4.21 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
21.		Bending Test – For Flexible Modules Only	Cl.4.22 of IS 14286 (Part-1):2023 / IEC 61215-1:2021, (Table 3)
22.		Visual Inspection	Cl. 11.1 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
23.		Maximum Power Determination	Cl. 11.2 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Test Facility		
24.	Photovoltaic (PV) modules	Insulation Test	Cl. 11.3 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
25.		Measurement Of Temperature Coefficients	Cl. 11.4 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
26.		Placeholder Section Tiontion, Formerly NMOT	Cl. 11.5 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
27.		Performance At STC	Cl. 11.6 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
28.		Outdoor Exposure Test	Cl.11.8 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
29.		Hot-Spot Endurance Test	Cl.11.9 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
30.		UV Preconditioning Test	Cl.11.10 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
31.	Thermal Cycling Test	Cl.11.11 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022	

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Test Facility		
32.	Photovoltaic (PV) modules	Humidity-Freeze Test	Cl.11.12 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
33.		Damp Heat Test	Cl.11.13 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
34.		Robustness Of Terminations	Cl.11.14 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
35.		Wet Leakage Current Test	Cl.11.15 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
36.		Static Mechanical Load Test	Cl.11.16 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
37.		Hail Test	Cl.11.17 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
38.		Bypass Diode Testing	Cl.11.18 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
39.		Stabilization	Cl.11.19 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Test Facility		
40.	Photovoltaic (PV) modules	Cyclic (dynamic) mechanical load test	Cl.11.20 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
41.		Potential induced degradation test	Cl.11.21 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
42.		Bending test	Cl.11.22 of IS 14286 (Part-1/Section-2):2023 /IEC 61215-1-2:2021+AMD1:2022
43.		Visual inspection	Cl.11.1 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1002:2021
44.		Maximum power determination	Cl.11.2 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
45.		Insulation test	Cl.11.3 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
46.		Measurement of temperature coefficients	Cl.11.4 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
47.		Placeholder section formerly NMOT	Cl.11.5 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
48.		Performance at STC	Cl.11.6 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
49.		Performance at low irradiance	Cl.11.7 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021

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	<b>Safety Test Facility</b>		
50.	Photovoltaic (PV) modules	Outdoor exposure test	Cl.11.8 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
51.		Hot-spot endurance test	Cl.11.9 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
52.		UV preconditioning test	Cl.11.10 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
53.		Thermal cycling test	Cl.11.11 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
54.		Humidity-freeze test	Cl.11.12 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
55.		Damp heat test	Cl.11.13 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
56.		Robustness of terminations	Cl.11.14 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
57.		Wet leakage current test	Cl.11.15 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
58.		Static mechanical load test	Cl.11.16 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
59.		Hail test	Cl.11.17 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
60.	Bypass diode testing	Cl.11.18 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021	

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Test Facility		
61.	Photovoltaic (PV) modules	Stabilization	Cl.11.19 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
62.		Cyclic (dynamic) mechanical load test	Cl.11.20 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
63.		Potential induced degradation test	Cl.11.21 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
64.		Bending test	Cl.11.22 of IS 14286 (Part-1/Section-1):2023/IEC 61215-1-1:2021
65.		Visual inspection	Cl.4.1 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
66.		Maximum power determination	Cl.4.2 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
67.		Insulation test	Cl.4.3 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
68.		Measurement of temperature coefficients	Cl.4.4 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
69.		Performance at STC	Cl.4.6 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
70.		Performance at low irradiance	Cl.4.7 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
71.		Outdoor exposure test	Cl.4.8 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
72.		Hot-spot endurance test	Cl.4.9 of IS 14286 (Part-2):2023 / IEC 61215-2:2021

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# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



**Scope of Accreditation**  
**Planet Electro Labs Private Limited**  
 WZ-407/B-1, Basai Darapur  
 New Delhi-110015, India

QAI/CIA/TL/2023/0006

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Valid from: 16 February 2025

Valid until: 15 February 2027

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Test Facility</b>		
73.	Photovoltaic (PV) modules	UV preconditioning test	Cl.4.10 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
74.		Thermal cycling test	Cl.4.11 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
75.		Humidity-freeze test	Cl.4.12 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
76.		Damp heat test	Cl.4.13 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
77.		Robustness of terminations	Cl.4.14 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
78.		Retention of junction box on mounting surface	Cl.4.14.2 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
79.		Wet leakage current test	Cl.4.15 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
80.		Static mechanical load test	Cl.4.16 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
81.		Hail test	Cl.4.17 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
82.		Bypass diode functionality test	Cl.4.18 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
83.		Bending test	Cl.4.22 of IS 14286 (Part-2):2023 / IEC 61215-2:2021
84.		Visual inspection	Cl. 10.1 of IS 14286:2010 / IEC 61215:2005
85.		Maximum power determination	Cl. 10.2 of IS 14286:2010 / IEC 61215:2005

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Test Facility</b>		
86.	Photovoltaic (PV) modules	Insulation test	Cl. 10.3 of IS 14286:2010 / IEC 61215:2005
87.		Measurement of temperature coefficients	Cl. 10.4 of IS 14286:2010 / IEC 61215:2005
88.		Measurement of NOCT	Cl. 10.5 of IS 14286:2010 / IEC 61215:2005
89.		Performance at STC and NOCT	Cl. 10.6 of IS 14286:2010 / IEC 61215:2005
90.		Performance at low irradiance	Cl. 10.7 of IS 14286:2010 / IEC 61215:2005
91.		Outdoor exposure test	Cl. 10.8 of IS 14286:2010 / IEC 61215:2005
92.		Hot-spot endurance test	Cl. 10.9 of IS 14286:2010 / IEC 61215:2005
93.		UV preconditioning	Cl. 10.10 of IS 14286:2010 / IEC 61215:2005
94.		Thermal cycling test	Cl. 10.11 of IS 14286:2010 / IEC 61215:2005
95.		Humidity freeze test	Cl. 10.12 of IS 14286:2010 / IEC 61215:2005
96.		Damp heat test	Cl. 10.13 of IS 14286:2010 / IEC 61215:2005
97.		Robustness of termination test	Cl. 10.14 of IS 14286:2010 / IEC 61215:2005
98.	Wet leakage current test	Cl. 10.15 of IS 14286:2010 / IEC 61215:2005	

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Test Facility</b>		
99.	Photovoltaic (PV) modules	Mechanical load test	Cl. 10.16 of IS 14286:2010 / IEC 61215:2005
100.		Hail test	Cl. 10.17 of IS 14286:2010 / IEC 61215:2005
101.		Bypass diode thermal test	Cl. 10.18 of IS 14286:2010 / IEC 61215:2005
102.		Marking	Cl.5.2.2 of IS/IEC 61730-1:2016 / Cl. 6.2.2 of IS/IEC 61730-1:2023 / UL 61730-1
103.		Electrical components and insulation	Cl.5.3 of IS/IEC 61730-1:2016 / Cl.6.3 of IS/IEC 61730-1:2023 / UL 61730-1
104.		Mechanical and electromechanical connections	Cl.5.4 of IS/IEC 61730-1:2016 / Cl.6.4 of IS/IEC 61730-1:2023 / UL 61730-1
105.		Materials	Cl.5.5 of IS/IEC 61730-1:2016 / Cl.6.5 of IS/IEC 61730-1:2023 / UL 61730-1
106.		Metallic materials	Cl.5.5.3 of IS/IEC 61730-1:2016 / Cl.6.5.3 of IS/IEC 61730-1:2016 / UL 61730-1
107.		Protection against electric shock	Cl.5.6 of IS/IEC 61730-1:2016 / Cl.6.6 of IS/IEC 61730-1:2023 / UL 61730-1

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Test Facility		
108.	Photovoltaic (PV) modules	Distance through insulation	Cl.5.6.4 of IS/IEC 61730-1:2016 / Cl.6.6.4 of IS/IEC 61730-1:2023 / UL 61730-1
109.		Environmental stress tests	Cl.4.2 of IS/IEC 61730-2:2016 / Cl.4.2 of IS/IEC 61730-2:2023 / UL 61730-2
110.		Electrical shock hazard tests	Cl.4.4 of IS/IEC 61730-2:2016 / Cl.4.4 of IS/IEC 61730-2:2023 UL 61730-2
111.		Fire hazard tests	Cl.4.5 of IS/IEC 61730-2:2016 / Cl.4.5 of IS/IEC 61730-2:2023 / UL 61730-2
112.		Mechanical stress tests	Cl.4.6 of IS/IEC 61730- 2:2016 / Cl.4.6 of IS/IEC 61730- 2:2023 / UL 61730-2
113.		Performance at STC MST 02	Cl.10.3 of IS/IEC 61730-2:2016 / Cl.10.3 of IS/IEC 61730- 2:2023 / UL 61730-2
114.		Maximum power Determination MST 03	Cl.10.4 of IS/IEC 61730-2:2016 / Cl.10.4 of IS/IEC 61730-2:2023 / UL 61730-2
115.		Insulation Thickness test MST 04	Cl.10.5 of IS/IEC 61730-2:2016 / Cl.10.5 of IS/IEC 61730-2:2023 / UL 61730-2
116.		Durability of markings MST05	Cl.10.6 of IS/IEC 61730-2:2016 / Cl.10.6 of IS/IEC 61730-2:2023 / UL 61730-2

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Test Facility		
117.	Photovoltaic (PV) modules	Sharp edge test MST 06	Cl.10.7 of IS/IEC 61730-2:2016 / Cl.10.7 of IS/IEC 61730-2:2023 / UL 61730-2
118.		Bypass diode functionality test MST07	Cl.10.8 of IS/IEC 61730-2:2016 / Cl.10.8 of IS/IEC 61730-2:2023 / UL 61730-2
119.		Accessibility test MST 11	Cl.10.9 of IS/IEC 61730-2:2016 / Cl.10.9 of IS/IEC 61730-2:2023 / UL 61730-2
120.		Cut susceptibility test - MST12	Cl.10.10 of IS/IEC 61730-2:2016 / Cl.10.10 of IS/IEC 61730-2:2023 / UL 61730-2
121.		Continuity test of equipotential bonding MST13	Cl.10.11 of IS/IEC 61730-2:2016 / Cl.10.11 of IS/IEC 61730-2:2023 / UL 61730-2
122.		Impulse voltage test MST 14	Cl.10.12 of IS/IEC 61730-2:2016 / Cl.10.12 of IS/IEC 61730-2:2023 / UL 61730-2
123.		Insulation test MST 16	Cl.10.13 of IS/IEC 61730-2:2016 / Cl.10.13 of IS/IEC 61730-2:2023 / UL 61730-2
124.		Wet leakage current test MST 17	Cl.10.14 of IS/IEC 61730-2:2016 / Cl.10.14 of IS/IEC 61730-2:2023 / UL 61730-2

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Test Facility		
125.	Photovoltaic (PV) modules	Temperature test MST 21	Cl.10.15 of IS/IEC 61730-2:2016 / Cl.10.15 of IS/IEC 61730-2:2023 / UL 61730-2
126.		Solar simulator method	Cl.10.15.3 of IS/IEC 61730-2:2016 / UL 61730-2
127.		Hot-spot Endurance test MST22	Cl.10.16 of IS/IEC 61730-2:2016 / Cl.10.16 of IS/IEC 61730-2:2023 / UL 61730-2
128.		Fire test MST23	Cl.10.17 of IS/IEC 61730-2:2016 / Cl.10.17 of IS/IEC 61730-2:2023 / UL 61730-2
129.		Ignite ability test MST 24	Cl.10.18 of IS/IEC 61730-2:2016 / Cl.10.18 of IS/IEC 61730-2:2023 / UL 61730-2
130.		Bypass diode thermal test MST 25	Cl.10.19 of IS/IEC 61730-2:2016 / Cl.10.19 of IS/IEC 61730-2:2023 / UL 61730-2
131.		Reverse current overload test MST26	Cl.10.20 of IS/IEC 61730-2:2016 / Cl.10.20 of IS/IEC 61730-2:2023 / UL 61730-2
132.		Module breakage test MST 32	Cl.10.21 of IS/IEC 61730-2:2016 / Cl.10.21 of IS/IEC 61730-2:2023 / UL 61730-2
133.		Screw connections test MST 33	Cl.10.22 of IS/IEC 61730-2:2016 / Cl.10.22 of IS/IEC 61730-2:2023 / UL 61730-2

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# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Test Facility</b>		
134.	Photovoltaic (PV) modules	Static mechanical load test MST 34	Cl.10.23 of IS/IEC 61730-2:2016 / Cl.10.23 of IS/IEC 61730-2:2023 / UL 61730-2
135.		Peel test MST 35	Cl.10.24 of IS/IEC 61730-2:2016 / Cl.10.24 of IS/IEC 61730-2:2023 / UL 61730-2
136.		Lap shear strength test MST 36	Cl.10.25 of IS/IEC 61730-2:2016 / Cl.10.25 of IS/IEC 61730-2:2023 / UL 61730-2
137.		Materials creep test MST 37	Cl.10.26 of IS/IEC 61730-2:2016 / Cl.10.26 of IS/IEC 61730-2:2023 / UL 61730-2
138.		Robustness of terminations test MST 42	Cl.10.27 of IS/IEC 61730-2:2016 / Cl.10.27 of IS/IEC 61730-2:2023 / UL 61730-2
139.		Thermal cycling test MST 51	Cl.10.28 of IS/IEC 61730-2:2016 / Cl.10.28 of IS/IEC 61730-2:2023 / UL 61730-2
140.		Humidity freeze test MST 52	Cl.10.29 of IS/IEC 61730-2:2016 / Cl.10.29 of IS/IEC 61730-2:2023 / UL 61730-2
141.		Damp heat test MST 53	Cl.10.30 of IS/IEC 61730-2:2016 / Cl.10.30 of IS/IEC 61730-2:2023 / UL 61730-2

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# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Test Facility</b>		
142.	Photovoltaic (PV) module	UV test MST54	Cl.10.31 of IS/IS/IEC 61730-2:2016 / Cl.10.31 of IS/IS/IEC 61730-2:2023 / UL 61730-2
143.		Cold conditioning MST 55	Cl.10.32 of IS/IS/IEC 61730-2:2016 / Cl.10.32 of IS/IS/IEC 61730-2:2023 / UL 61730-2
144.		Dry-heat Conditioning MST 56	Cl.10.33 of IS/IS/IEC 61730-2:2016 / Cl.10.33 of IS/IS/IEC 61730-2:2023 / UL 61730-2
145.		Bonding and Grounding	CL.8 IS/IEC 61730-1 : 2004
146.		Creepage and clearance distances	CL .9 IS/IEC 61730-1 : 2004
147.		Wall thickness	CL.10.2 IS/IEC 61730-1 : 2004
148.		Internal volume	CL.10.3 IS/IEC 61730-1: 2004
149.		Openings	CL.10.4 IS/IEC 61730-1: 2004
150.		Gaskets and Seals	CL.10.5 IS/IEC 61730-1: 2004
151.		Strain Relief	CL.10.6 IS/IEC 61730-1: 2004
152.		Sharp Edges	CL.10.7 IS/IEC 61730-1: 2004
153.		Conduit Applications – Metallic	CL.10.8 IS/IEC 61730-1 : 2004
154.		Conduit Applications – Non-metallic	CL.10.9 IS/IEC 61730-1 : 2004

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Test Facility		
155.	Photovoltaic (PV) module	Preconditioning tests	CL. 4.2 IS/IEC 61730-2 : 2004
156.		General Inspection	CL.4.3 IS/IEC 61730-2 : 2004
157.		Electrical Shock hazard tests	CL.4.4 IS/IEC 61730-2 : 2004
158.		Fire Hazard Tests	CL.4.5 IS/IEC 61730-2 : 2004
159.		Mechanical stress tests	CL.4.6 IS/IEC 61730-2 : 2004
160.		Components tests	CL 4.7 IS/IEC 61730-2 : 2004
161.		Accessibility test	CL. 10.2 IS/IEC 61730-2 : 2004
162.		Cut susceptibility test	CL. 10.3 IS/IEC 61730-2 : 2004
163.		Ground continuity test	CL. 10.4 IS/IEC 61730-2 : 2004
164.		Impulse voltage test	CL.10.5 IS/IEC 61730-2 : 2004
165.		Dielectric withstand test	CL.10.6 IS/IEC 61730-2 : 2004

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Environmental Test Facility</b>		
1.	Degrees of protection provided by enclosures (IP CODE)	1st characteristic numeral IP1X to IP6X	Cl. 5 of IS/IS/IEC60529:2001
2.		2nd characteristic numeral IPX1 to IPX6	Cl. 6 of IS/IS/IEC 60529:2001



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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Test Facility</b>		
1.		Components	(Cl.1.5) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
2.		Power interface	(Cl.1.6) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
3.		Marking & instructions	(Cl.1.7) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
4.	Information Technology Equipments- Safety	Protection from electric shock and energy hazards	(Cl.2.1) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
5.		SELV Circuits	(Cl.2.2) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
6.		TNV Circuits	(Cl.2.3) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
7.		Limited current circuits	(Cl.2.4) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Test Facility</b>		
8.	Information Technology Equipments- Safety	Limited Power sources	(Cl.2.5) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
9.		Provisions for earthing and bonding	(Cl.2.6) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
10.		Overcurrent and earth fault protection in primary circuits	(Cl.2.7) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
11.		Safety Interlocks	(Cl. 2.8.1, 2.8.2, 2.8.3, 2.8.4, 2.8.5, 2.8.6, 2.8.8) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
12.		Electrical Insulation	(Cl.2.9) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
13.		Clearances, Creepage distances and distances through insulation	(Cl.2.10) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
14.		Wiring, connections and supply	(Cl.3.1) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Test Facility		
15.	Information Technology Equipments- Safety	Connection to a main supply	(Cl.3.2) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
16.		Wiring terminals for connection of external conductors	(Cl.3.3) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
17.		Disconnection for the main supply	(Cl.3.4) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
18.		Interconnection of equipment	(Cl.3.5) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
19.		Stability	(Cl.4.1) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
20.		Mechanical strength	(Cl.4.2.1, 4.2.2, 4.2.3, 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.2.10) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013

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# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



**Scope of Accreditation**  
**Planet Electro Labs Private Limited**  
 WZ-407/B-1, Basai Darapur  
 New Delhi-110015, India

QAI/CIA/TL/2023/0006

Date of First Accreditation: 16 February 2023-15 February 2025

Valid from: 16 February 2025

Valid until: 15 February 2027

Accreditation Standard: ISO/IEC 17025:2017

Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Test Facility</b>		
21.	Information Technology Equipments- Safety	Design and construction	(Cl.4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5,4.3.6, 4.3.7, 4.3.8, 4.3.9, 4.3.10,4.3.11,4.3.12) IS 13252 (Part 1): 2010+ A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
22.		Protection against hazardous moving parts	(Cl.4.4) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
23.		Thermal requirements	(Cl.4.5) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
24.		Openings in Enclosures	(Cl.4.6) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
25.		Resistance to fire	(Cl.4.7) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
26.		Electrical requirements and simulated abnormal conditions	(Cl.5), 5.1 IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
27.		Electric Strength	(Cl.5.2) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Test Facility		
28.	Information Technology Equipments- Safety	Abnormal operating and fault conditions	(Cl.5.3) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
29.		Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	(Cl.6.1) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1:2005 + A1: 2009 + A2: 2013
30.		Protection of equipment users from over voltages on telecommunication networks	(Cl.6.2) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
31.		Protection of the telecommunication wiring system from overheating	(Cl.6.3) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013
32.		Connection to cable distribution systems	(Cl.7) IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC/EN 60950-1: 2005 + A1: 2009 + A2: 2013

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Accreditation Standard: ISO/IEC 17025:2017

Photometry Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Luminaries</b>		
1.	Solid State Lighting (LED) Products	Electrical instrumentation	Cl.8 of IES LM 79 / Cl.10 of IS 16106:2012
2.		Total Luminous Flux Measurements	Cl.9 of IES LM 79 / Cl.11 of IS 16106:2012
3.		Luminous Intensity Distribution	Cl.10 of IES LM 79 / Cl.12 of IS 16106:2012
4.		Luminous efficiency	Cl.11 of IES LM 79 / Cl.13 of IS 16106:2012
5.		Color Characteristics of SSL Products	Cl.12 of IES LM 79 / Cl.14 of IS 16106:2012
6.	LED Luminaire	Marking	Cl.4 of IS 16107 (Part-2/Section-1):2012 / IS/IEC 62722-2-1:2014
7.		Test Conditions	Cl.6 of IS 16107 (Part-2/Section-1):2012 / IS/IEC 62722-2-1:2014
8.		Total Input Power	Cl.7 of IS 16107 (Part-2/Section-1):2012 /IS/IEC 62722-2-1:2014
9.		Light Output	Cl.8 of IS 16107 (Part-2/Section-1):2012 /IS/IEC 62722-2-1:2014
10.		Chromaticity Coordinates, Correlated Colour, Temperature and Colour Rendering	Cl. 9 of IS 16107 (Part-2/Section-1):2012 /IS/IEC 62722-2-1:2014
11.		LED Luminaire Life	Cl.10 of IS 16107 (Part-2/Section-1):2012 /IS/IEC 62722-2-1:2014

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Valid until: 15 February 2027

Accreditation Standard: ISO/IEC 17025:2017

Photometry Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Luminaries		
12.	Self - Ballasted LED Lamps	Marking	Cl.5 of IS 16102 (Part-2):2017+A1:2020 /IS/IEC 62612:2013+A1:2015+A2:2018
13.		Dimensions	Cl.6 of IS 16102 (Part-2):2017+A1:2020 / IS/IEC 62612:2013+A1:2015+A2:2018
14.		Test Conditions	Cl.7 of IS 16102 (Part-2):2017+A1:2020 /IS/IEC 62612:2013+A1:2015+A2:2018
15.		Lamp Input	Cl.8 of IS 16102 (Part-2):2017+A1:2020 /IS/IEC 62612:2013+A1:2015+A2:2018
16.		Light Output	Cl.9 of IS 16102 (Part-2):2017+A1:2020 / IS/IEC 62612:2013+A1:2015+A2:2018
17.		Color Nomenclature, Variation and Rendering	Cl.10 of IS 16102 (Part-2):2017+A1:2020 /IS/IEC 62612:2013+A1:2015+A2:2018
18.		Lamp Life	Cl.11 of IS 16102 (Part-2):2017+A1:2020 /IS/IEC 62612:2013+A1:2015+A2:2018

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