



An ISO 9001 : 2015 Certified Company



**Lights to Illuminate
Home & Hearts**

BUSINESS PROFILE



Nitin Jain

MESSAGE FROM OUR CHAIRMAN

I'm deeply honored to established and lead **HiWAY Lighting Solutions Pvt. Ltd.**, a renowned LED brand in India. I did Master of Computer Application degree from RGPV University in Indore and worked for 13 years in IT industries as Solution Architect and had wide industries experience by working different countries and cultures. I worked in USA, Denmark, Australia and China for many years. I have executed million dollar projects successfully across countries. Due to progressive vision and strong felling to serve for India, I quit the job in USA and started my own business in LED Lights. I started business carrier with products trading, setup own brand and in a very short period of time setup a manufacturing unit as "**HiWAY Lighting Solutions Pvt. Ltd.**"

Agility and innovation will be crucial to our continued success. Let's build on our past achievements, embrace the future together and continue exceeding expectations.

As a Chairperson, I pledge to lead **HiWAY** company with vision, integrity and unwavering dedication to our core values. Let's reaffirm our commitment to excellence, foster collaboration and inclusivity and strive to exceed expectations. I extend my most profound appreciation to every member of the HiWAY family. Let's march forward, inspired by our past achievements and driven by limitless possibilities. Relationships are key to success. We value our customers trust ad strive to exceed their expectations through open communication and collaboration.

Thank you for considering **HiWAY family**.

We believe light is more than just illumination. It is innovation, progress, and the path to a sustainable future.

ABOUT US

Hiway Lighting Solutions Pvt. Ltd. is a premier Indian manufacturer, trader, and exporter specializing in advanced, energy-efficient **LED lighting solutions**. We provide a comprehensive range of products for commercial, industrial, infra structural, and smart outdoor applications.

Our commitment to excellence is rooted in combining innovation, energy efficiency, and durability to meet the demands of modern infrastructure projects. Our strategic associations with industry leaders, continue to reinforce our strong presence in the Indian infrastructure market.

Our Product Range: We offer an extensive selection including LED street lights, flood lights, solar-powered systems, recessed panels, track lights, and smart lighting solutions featuring motion and daylight sensors. Designed for use in diverse environments—from highways and industrial zones to corporate buildings and smart cities—our products guarantee exceptional performance and substantial energy savings. We utilize state-of-the-art manufacturing processes and uphold rigorous quality control, ensuring every product is a testament to our commitment to quality and responsibility.

NAME : HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
GSTN : 23AAECH7954D1ZO
STATE : Madhya Pradesh
ADDRESS : SURVEY NO. 142/2, VILLAGE GARIPLIYA
SAWER, INDORE, Indore, Madhya Pradesh, 453771

NAME : HIWAY LIGHTING SOLUTIONS FZ-LL
ADDRESS : CFDRK7222, Compass Building, Al Shohada Road,
Al Hamra Industrial Zone-FZ, Ras Al Khaimah, United
Arab Emirates
PHONE : +971 54 482 9592
Email : info@hiwayledlights.com
G Website : www.hiwayledlights.com

NAME : HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
GSTN : 10AAECH7954D1ZV
STATE : Bihar
ADDRESS : B-72, TRANSPORT NAGAR, BAHADURPUR,
KUMHRAR, Patna, Patna, Bihar, 800007

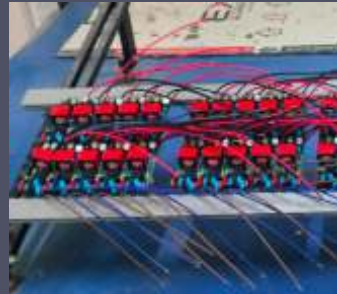
NAME : HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
GSTN : 09AAECH7954D1ZE
STATE : Uttar Pradesh
ADDRESS : E-174, Kanpur Road, Transport Nagar, Lucknow,
U.P., 226012

Factory Tour

Our state-of-the-art infrastructure is constructed over an extensive area and is divided into various departments like production unit, quality inspection, sales and marketing, etc. These segregated units work in close-synchronization for providing best quality products within the committed time frame. Our infrastructure is regularly upgraded to ensure trouble-free business operations. In our team, we have adroit team of personnel who have great professional acumen and rich industry experience. Different seminars and training sessions are also conducted for our team members that help them in updating their knowledge according to the current developments in the market.



Front Desk



Driver Manufacturing Unit



Pcb Manufacturing Unit



Reflow Oven



Powder Coating Booth



Powder Coating Oven



Wire Cutting & Stripping



Pad Printing



Laser Printing



Repairing Unit

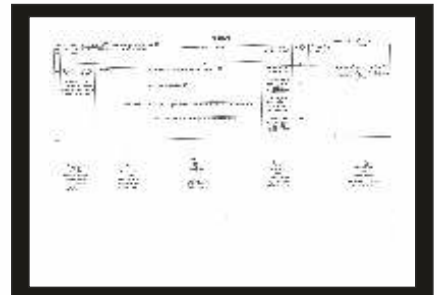
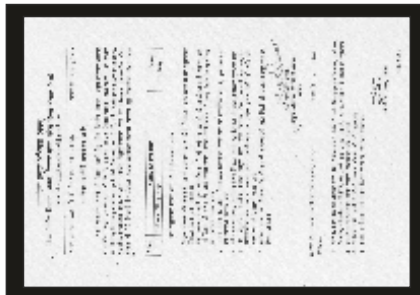
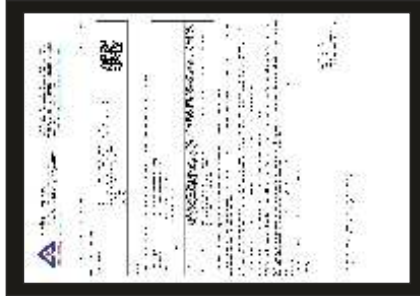


Testing Unit



Product Display

CERTIFICATES



OUR PRESTIGIOUS CUSTOMERS



And many more ...

SEGMENTS THAT WE DEAL IN

COMPANY PROFILE

SOLAR LIGHTS SERIES

SMART LIGHTS SERIES

ARCHITECTURAL LIGHTS SERIES

LANDSCAPING & UNDER WATER LIGHTS SERIES

OUTDOOR LIGHT SERIES

EMERGENCY LIGHT SERIES

COB DOWNLIGHT & TRACK LIGHTS SERIES

PROFILE, ROPE & STRIP LIGHTS SERIES

RECESSED PANEL LIGHTS SERIES

SURFACE PANEL LIGHTS SERIES

DEEP JUNCTION & CONCEALED LIGHTS SERIES

BULB & BATTEN LIGHTS SERIES

UPCOMING PRODUCTS



CERTIFICATE

This is to Certify that the Management System of
HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED

SURVEY NO. 142/2, VILLAGE GARIPLIYA SAWER, INDORE,
MADHYA PRADESH - 453771, INDIA

has been audited and
found to comply with the requirement of

ISO 9001: 2015
Quality Management System

For the following activities :

**MANUFACTURE, IMPORT, EXPORT AND OF SOLAR STREET/ FLOOD LIGHTS,
LED STREET/ FLOOD LIGHTS, COMMERCIAL & INDUSTRIAL LED
LIGHTS AND TUBE LIGHTS.**

**The Validity of Certificate is subject to regular surveillance audit on or before above mentioned dates
and it's only valid after successful surveillance with continuation letter issued by UCSPL**

Initial Date of Certification : 20/09/2022

Current Date of Certification : 20/09/2022

Date of Expiry :
19/09/2025

1st Surveillance Audit
19 September 2023

Certification Number :
UCS8022B00060

2nd Surveillance Audit
19 September 2024



Authorised Signatory



KAB-QC-80

UNIVERSAL CERTIFICATION SERVICES PVT. LTD.

E-mail : universalcertificationservices@gmail.com

Web : www.universalcertification.co.in

This certificate of registration remain the property of Universal Certification Services Pvt. Ltd. and shall be returned immediately upon request.

The validity of this certificate can be verified at www.universalcertification.co.in

India Office : Sterling Green View - 1, Chunabhatti, Bhopal (Madhya Pradesh)

CERTIFICATE NO:
DIPP213838



Government of India
Ministry of Commerce & Industry
Department for Promotion of Industry and Internal Trade



CERTIFICATE OF RECOGNITION

*This is to certify that **HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED** incorporated as a **Private Limited Company** on **30-01-2019**, is recognized as a startup by the Department for Promotion of Industry and Internal Trade. The startup is working in 'Other Specialty Retailers' Industry and 'Home Improvement Products & Services Retailers' sector as self-certified by them.*

This certificate shall only be valid for the Entity up to **Ten** years from the date of its incorporation only if its turnover for any of the financial years has not extended ₹ **100 Cr.**

25-07-2025

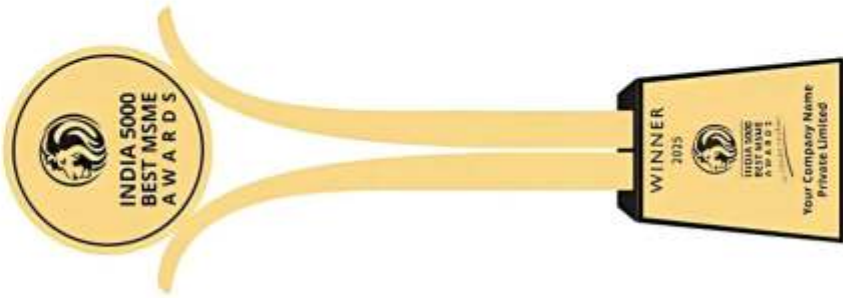
DATE OF ISSUE

29-01-2029

VALID UPTO



CERTIFICATE OF NOMINATION



Presented to

Hiway Lighting Solutions Pvt Ltd

For successfully being part of Nomination Phase at

**INDIA 5000 BEST MSME
AWARDS**



**INDIA 5000
BEST MSME
AWARDS**

for Quality excellence

Organized by

**BENCHMARK
TRUST**

Knowledge Partner

TQV

Magazine Partner

Udyamee.
BUSINESS MAGAZINE

Tech Partner

odoo

www.india5000.com

PLEDGE



सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
MINISTRY OF
MICRO, SMALL &
MEDIUM ENTERPRISES



under MSME Sustainable (ZED) Certification Scheme

We undertake to conform to the values of Zero Defect Zero Effect in our enterprise and ensure that our processes shall be environmentally sound and socially responsible with safe and high quality products.

We will give back, in every way we can, to our people our community and to our planet.

M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED

ENTERPRISE NAME

Flat No:- KHASRA NO.142/2, Building:- GARIPILIYA, Road/Street:- TEHSIL SANWER, Village/Town:- GARIPILIYA, Block:- 142/2, City:- INDORE, INDORE, MADHYA PRADESH-452001

UNIT ADDRESS

UDYAM-MP-23-0016929

UDYAM REGISTRATION NUMBER

December 22, 2023

DATE OF PLEDGE



ZED_22122023_162018

Apnaenge ZED!



UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER

UDYAM-MP-23-0016929

NAME OF ENTERPRISE

M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED

TYPE OF ENTERPRISE *

MICRO (Based on FY 2020-21)
(MICRO During FY 2019-20)

MAJOR ACTIVITY

MANUFACTURING

SOCIAL CATEGORY OF
ENTREPRENEUR

GENERAL

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED

OFFICAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	GODOWN NO.24/7/3	Name of Premises/ Building	SDA COMPOUND
Village/Town	DEWAS NAKA	Block	24/7/3
Road/Street/Lane	LASUDIYA MORI	City	INDORE
State	MADHYA PRADESH	District	INDORE , Pin 452001
Mobile	8989997117	Email:	jainnit_12@yahoo.com

DATE OF INCORPORATION /
REGISTRATION OF ENTERPRISE

30/01/2019

DATE OF COMMENCEMENT OF
PRODUCTION/BUSINESS

28/12/2020

NATIONAL INDUSTRY
CLASSIFICATION CODE(S)

SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	27 - Manufacture of electrical equipment	2740 - Manufacture of electric lighting equipment	27400 - Manufacture of electric lighting equipment	Manufacturing

DATE OF UDYAM REGISTRATION

30/03/2021

* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.

Disclaimer: This is computer generated statement, no signature required. Printed from <http://udyamregistration.gov.in> & Date of printing:- 18/11/2022

For any assistance, you may contact:

1. District Industries Centre: INDORE (MADHYA PRADESH)

2. MSME-DFO: INDORE (MADHYA PRADESH)

Visit : www.msme.gov.in ; www.dcmsme.gov.in ; www.champions.gov.in



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**BE A
CHAMPION**
with the
Ministry of
MSME



indiamart[®]

Bright World

has been certified for having
met the requirements of
IndiaMART TrustSEAL
in August 2023.



IndiaMART TrustSEAL

Building TRUST

Enhancing Business

L&T-SUFIN

A brand of Larsen & Toubro Limited



HIWAY LIGHTING SOLUTIONS PVT LTD

is a registered entity in L&T-SuFin bearing Trusted Seal



The process of verification has been carried out by an independent third party for L&T-SuFin and basis analysis of certain publicly available information.



DOWNLOAD APP TODAY

कार्यालय प्रमुख अभियंता (भवन)
लोक निर्माण विभाग, (भवन) निर्माण भवन, अरेरा हिल्स भोपाल (म.प्र.)
Email id: - jpdpiuembhopal@gmail.com

क्र. एफ-97-133/2025/वि-यों/मेक एप्रूवल्स/प्र.अ./199

भोपाल दि. 11/07/2025

॥ विद्युत सामग्री अनुमोदन आदेश ॥

म.प्र. शासकीय भवनों में विद्युत कार्य हेतु लोक निर्माण विभाग, प्रमुख अभियंता (भवन) में प्रचलित विद्युत एस.ओ.आर. जो कि दि. 01.01.2024 (Amended upto date), के आधार पर Hiway lighting solutions pvt. ltd., Survey no. 142/2, Vill. Garipliya Saver, Indore, Madhya Pradesh- 453771 द्वारा उत्पादित विद्युत सामग्री जिन पर Hi-way व्यावसायिक चिन्ह अंकित हों ऐसे निम्नलिखित संलग्न उत्पाद अनुशंसा उपरांत उपयोग हेतु अनुमोदन किया जाता है।

S.No.	Name Of Product	Brand
1.	Outdoor LED Lightings	Hi-way

यह अनुमोदन निम्न शर्तों के अधीन मान्य होगा।

1. विद्युत सामग्री की क्वालिटी, आकार अथवा अन्य कोई शिकायत यदि होती है तो अनुमोदन निरस्त किया जा सकता है।
2. यह अनुमोदन जारी होने के दिनांक से दो वर्ष या उत्पादों की आई.एस.आई. प्रमाण-पत्रों की वैधता जो पहले हो, तक मान्य होगा। इसके नवीनीकरण के लिए वैधता के एक माह पूर्व आवेदन करना होगा।
3. समय-समय पर प्राइस लिस्ट/केटलॉग/ड्राइंग आदि जब भी परिवर्तित होते हैं, इस कार्यालय को उपलब्ध कराना होगा।
4. बगैर कारण दर्शाए यह अनुमोदन निरस्त करने हेतु विभाग के पास अधिकार सुरक्षित होंगे।
5. यह अनुमोदन भारतीय मानक ब्यूरो द्वारा जारी प्रत्येक विद्युत सामग्री का लाईसेंस नवीनीकरण होने पर ही मान्य होगा। नवीनीकरण के प्रत्येक प्रमाण-पत्रों की प्रति इस कार्यालय को उपलब्ध कराई जावें।
6. संबंधित उत्पाद के निरीक्षण हेतु विभाग के अधिकारियों द्वारा किसी भी समय Factory Visit किया जावेगा।

(इंजी.एस.आर. बघेल)

प्रमुख अभियंता लो. नि. वि. (भवन)
भोपाल

क्र. एफ-97-133/2025/वि-यों/मेक एप्रूवल्स/प्र.अ./

भोपाल दि. / /2025

प्रतिलिपि:-

- 1- Hiway lighting solutions pvt. ltd., Survey no. 142/2, Vill. Garipliya Saver, Indore, Madhya Pradesh- 453771 को उनके द्वारा प्रस्तुत पत्र दि. 24/06/2025 के संदर्भ में सूचनार्थ।
- 2- समस्त मुख्य अभियंता (भवन), लोक निर्माण विभाग की ओर सूचनार्थ।
- 3- अधीक्षण यंत्री, लो.नि.वि. वि/यों. मण्डल भोपाल की ओर सूचनार्थ।
- 4- समस्त कार्यपालन यंत्री (भवन) वि/यां, लो.नि.वि. की ओर पालनार्थ।

—sd—
प्रमुख अभियंता
लो. नि. वि. (भवन) भोपाल

ANNEXURE

Date:- 28 / 03 / 2025

ENCLOSURE OF LETTER NO.- 1335 E/M-14EW-CE(E/M)-TC-15/24-25

क्र. सं.	क्रम/निर्माता का नाम व रजिस्टर्ड पता	ज्वलसांघिक विन्ह मद की संबंधित विनिर्दिष्टियां	कटेनाग / ग्राउन्ड संख्या / बेंज / विनिर्दिष्टियां	आई.एस.ओ. / बी.आई.एस. का संदर्भ	अनुमोदित श्रेणी	पी.एस.ओ संख्या / डी.एस.ओ.आर. संख्या	टिप्पणी
1	2	3	4	5	6	7	8
35	M/s Hiway Lighting Solutions Pvt Ltd. Survey No 142/2, Villega- Garipipliya Sewer, Indore, Madhya Pradesh, 453771	HIWAY	LED Lights	1- Track Light- 16/24/30/50W, Track Channel- 1-2Mtr 2- Garden /Spike Light- 5W 3- LED Flood Light- 30/50/90/100/120/150/200/240/250/300/350/400/500W 4- LED Street Light- 24/30/50/60/75/90/100/120/150/200/250W	ISO 9001:2015 VDI- 19.09.2025 IS 15885 (PART 2/ SEC 13):2012 R-82001201 VDI: 30.01.2027 IS 10322 (PART 5/SEC 3):2012 R- 82001961 VDI: 19.01.2027 IS 10322 (PART 5/SEC 5):2013 R- 82001953 VDI: 09.01.2027	A AA	इस फर्म/कम्पनी के अनुमोदन की वैधता दिनांक 31.12.2026 तक अथवा भारतीय मानक ब्यूरो (बीआईएस) की वेबसाइट से, जो भी पूर्व में एक रहेगी।


(संयोजक एवं प्रत्युत्तराती)
अविभासी अभियन्ता
राजनीकी कोच-15
लोकनिधि, लखनऊ


(एग्ज्यूटिव आरपी)
(सदस्य)
अविभासी अभियन्ता
विद्युत यंत्रिक एण्ड
लोकनिधि, कानपुर


(परिचाली सिंह)
(सदस्य)
कार्य अधिकारक
अ.वि.नि.ई.एच./सी।
लोकनिधि, लखनऊ


(मनीष सोनकर)
(सदस्य)
अविभासी अभियन्ता
विद्युत यंत्रिक एण्ड
लोकनिधि, प्रयागबाद


(शिवशंकर सिंह)
(अध्यक्ष)
अभियाग अभियन्ता
विद्युत यंत्रिक एवं मूल्यालय
लोकनिधि, लखनऊ



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution,
Govt. of India)

मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002

दूरभाष / Phone: +91-11-23230856/2323010131/23233375/23239402


ई-मेल / E-mail: registration@bis.gov.in

वेबसाइट / Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: Registration/CRS 2023-0139/R-82001201

Date:31-01-2023

Subject : Licence Document

Manufacturing Unit :	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED, KHASRA NO.142/2, GARIPIPLIYA, GARIPIPLIYA, 142/2, TEHSIL SANWER, INDORE ,452001 MADHYA PRADESH MADHYA PRADESH,India-452001 jainnit_12@yahoo.com 8989997117	
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Dear Sir,

1. With reference to your Application, we are pleased to inform you that it has been decided to grant you licence as per details given below :

Product Category:	DC or AC Supplied Electronic Controlgear for LED Modules
Product Name:	AC SUPPLIED ELECTRONIC CONTRLOGEAR FOR LED MODULES
IS NO :	IS 15885 (PART 2/SEC 13) : 2012
Brand (As Declared by Manufacturer) :	HI-WAY WITH DEVICE
Model :	[Brand -> HI-WAY WITH DEVICE, Models -> HW0050W, HW0060W, HW0100W, HW0105W, HW060WV12, HW0610W, HW100WV24, HW1215W, HW1824W, HW3040W]
Factory Address :	M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED, KHASRA NO.142/2, GARIPIPLIYA, GARIPIPLIYA, 142/2, TEHSIL SANWER, INDORE ,452001 MADHYA PRADESH MADHYA PRADESH,India-452001

2. The licence is being granted for your unit located at the address and for the brand and models mentioned at serial no 1 above.

3. The number assigned to this Licence is **R-82001201** which has been made operative from **31-01-2023** and is valid upto **30-01-2025** . The Licence Number should invariably be referred to in your future correspondence.

4. The rights and privileges under the licence shall not be exercised by any other factory / organization at any other location. This licence is not transferable. In the event of shifting of the manufacturing machinery from the registered premises to some other place use of the licence Number shall be stopped and BIS shall be informed.

5. The licensee shall comply with the provisions of the Act, rules and regulations framed thereunder and as amended from time to time.

6. The licensee shall follow the guidelines for the use of Standard Mark and labeling requirements as per Annex-I.

7. The licensee shall not use the licence in any manner which contravenes the provisions of Act, rules and regulations framed thereunder and as amended from time to time.

8. Upon expiry of validity, stoppage or suspension or cancellation of licence, you shall discontinue forthwith the self declaration of conformity to the relevant Indian Standard(s) and withdraw all promotional and advertising matter which contains any reference thereto.

9. For renewal of licence, the licensee shall have to apply to BIS three months in advance before expiration of the licence and application form for renewal is available on BIS website.

10. The licence is not transferable. Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,
(Deepti Budiyal)
Granting Authority
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
To verify authentication of letter, kindly scan the QR code on this letter.



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution,
Govt. of India)

मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002
Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002
दूरभाष/Phone: +91-11-23230856/2323010131/23233375/23239402
ई-मेल/E-mail: registration@bis.gov.in
वेबसाइट/Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: REGISTRATION /CRS-2023-0139/R-82001201

Dated: 2025-01-29
00:21:04

RENEWAL ID : 31210

Subject : RENEWAL OF LICENCE R-82001201 AS PER IS 15885 (Part 2/Sec 13) : 2012

HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED, KHASRA NO.142/2, GARIPIPLIYA, GARIPIPLIYA, 142/2, TEHSIL
SANWER, INDORE ,452001 MADHYA PRADESH
MADHYA PRADESH, India, 452001



Dear Sir/Madam,

With reference to your online application dated 29-01-2025 for renewal of the above mentioned licence; this is to inform you that the same has been renewed from **31-01-2025 to 30-01-2027**.

It may be noted that the said licence granted under clause (b) of sub section (2) of section 13 of the Act shall *expire* at the end of the period for which it is granted unless renewed or its renewal is deferred. You are, therefore, requested to apply for next renewal to BIS within three months before the expiration of the licence.

Thanking you.

Yours faithfully,

Registration Department
Bureau of Indian Standards,
9, Bahadur Shah Zafar Marg,
New Delhi-110002.
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
To verify authentication of letter, kindly scan the QR code on this letter.



भारतीय मानक ब्यूरो

(उपभोग्य सामानों, खाद्य एवं नार्केटिनिक विभाग, भारत सरकार)

BUREAU OF INDIAN STANDARDS

Ministry of Consumer Affairs, Food & Public Distribution,
Govt. of India

मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002

दूरभाष/Phone: +91-11-23230856/2323010131/23233375/23239402

ई-मेल/E-mail: registration@bis.gov.in

वेबसाइट/Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: Registration/CRS 2024-7411/R-82001961

Date:20-Jan-2025

Subject : Licence Document

Manufacturing Unit :	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED, KHASRA NO.142/2, GARIPLIYA, GARIPLIYA, 142/2, TEHSIL SANWER, INDORE ,452001 MADHYA PRADESH MADHYA PRADESH,India-452001 jainnit_12@yahoo.com 8989997117	
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Dear Sir,

1. With reference to your Application, we are pleased to inform you that it has been decided to grant you licence as per details given below :

Product Category:	LED Luminaires for Road and Street Lighting
Product Name:	LED Luminaires for Road and Street lighting
IS NO :	IS 10322 (PART 5/SEC 3) : 2012
Brand (As Declared by Manufacturer) :	HI-WAY WITH DEVICE
Model :	[Brand -> HI-WAY WITH DEVICE, Models -> HWSL012W, HWSL018W, HWSL024W, HWSL030W, HWSL036W, HWSL045W, HWSL050W, HWSL060W, HWSL072W, HWSL080W, HWSL090W, HWSL100W, HWSL110W, HWSL120W, HWSL150W, HWSL180W, HWSL200W, HWSL220W, HWSL250W, HWSL300W]
Factory Address :	M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED, KHASRA NO.142/2, GARIPLIYA, GARIPLIYA, 142/2, TEHSIL SANWER, INDORE ,452001 MADHYA PRADESH MADHYA PRADESH,India-452001

2. The licence is being granted for your unit located at the address and for the brand and models mentioned at serial no 1 above.

3. The number assigned to this Licence is **R-82001961** which has been made operative from **20-Jan-2025** and is valid upto **19-Jan-2027** . The Licence Number should invariably be referred to in your future correspondence.

4. The rights and privileges under the licence shall not be exercised by any other factory / organization at any other location. This licence is not transferable. In the event of shifting of the manufacturing machinery from the registered premises to some other place use of the licence Number shall be stopped and BIS shall be informed.

5. The licensee shall comply with the provisions of the Act, rules and regulations framed thereunder and as amended from time to time.

6. The licensee shall follow the guidelines for the use of Standard Mark and labeling requirements as per Annex-I.

7. The licensee shall not use the licence in any manner which contravenes the provisions of Act, rules and regulations framed thereunder and as amended from time to time.

8. Upon expiry of validity, stoppage or suspension or cancellation of licence, you shall discontinue forthwith the self declaration of conformity to the relevant Indian Standard(s) and withdraw all promotional and advertising matter which contains any reference thereto.

9. For renewal of licence, the licensee shall have to apply to BIS three months in advance before expiration of the licence and application form for renewal is available on BIS website.

10. The licence is not transferable. Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,
(Jainendra Kumar)
Scientist-D
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
To verify authentication of letter, kindly scan the QR code on this letter.



भारतीय मानक ब्यूरो

(उपभोग्य सामान, खाद्य एवं नार्मलिनिक वितरण, स्वास्थ्य, भारत सरकार)

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution,
Govt. of India)

मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002

दूरभाष / Phone: +91-11-23230856/2323010131/23233375/23239402

ई-मेल / E-mail: registration@bis.gov.in

वेबसाइट / Website: <https://bis.gov.in/>, <https://www.crsbis.in/BIS/>

Our Ref: Registration/CRS 2024-7408/R-82001953

Date:10-Jan-2025

Subject : Licence Document

Manufacturing Unit :	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED, KHASRA NO.142/2, GARIPLIYA, GARIPLIYA, 142/2, TEHSIL SANWER, INDORE ,452001 MADHYA PRADESH MADHYA PRADESH,India-452001 jainnit_12@yahoo.com 8989997117	
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Dear Sir,

1. With reference to your Application, we are pleased to inform you that it has been decided to grant you licence as per details given below :

Product Category:	LED Flood Lights
Product Name:	LED Flood Lights
IS NO :	IS 10322 (PART 5/SEC 5) : 2013
Brand (As Declared by Manufacturer) :	HI-WAY WITH DEVICE
Model :	[Brand -> HI-WAY WITH DEVICE, Models -> HWFL020W, HWFL030W, HWFL040W, HWFL050W, HWFL060W, HWFL070W, HWFL100W, HWFL120W, HWFL150W, HWFL180W, HWFL200W, HWFL220W, HWFL240W, HWFL250W, HWFL300W, HWFL350W, HWFL400W, HWFL450W, HWFL500W, HWFL600W]
Factory Address :	M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED, KHASRA NO.142/2, GARIPLIYA, GARIPLIYA, 142/2, TEHSIL SANWER, INDORE ,452001 MADHYA PRADESH MADHYA PRADESH,India-452001

2. The licence is being granted for your unit located at the address and for the brand and models mentioned at serial no 1 above.

3. The number assigned to this Licence is **R-82001953** which has been made operative from **10-Jan-2025** and is valid upto **09-Jan-2027** . The Licence Number should invariably be referred to in your future correspondence.

4. The rights and privileges under the licence shall not be exercised by any other factory / organization at any other location. This licence is not transferable. In the event of shifting of the manufacturing machinery from the registered premises to some other place use of the licence Number shall be stopped and BIS shall be informed.

5. The licensee shall comply with the provisions of the Act, rules and regulations framed thereunder and as amended from time to time.

6. The licensee shall follow the guidelines for the use of Standard Mark and labeling requirements as per Annex-I.

7. The licensee shall not use the licence in any manner which contravenes the provisions of Act, rules and regulations framed thereunder and as amended from time to time.

8. Upon expiry of validity, stoppage or suspension or cancellation of licence, you shall discontinue forthwith the self declaration of conformity to the relevant Indian Standard(s) and withdraw all promotional and advertising matter which contains any reference thereto.

9. For renewal of licence, the licensee shall have to apply to BIS three months in advance before expiration of the licence and application form for renewal is available on BIS website.

10. The licence is not transferable. Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,
(Sonali Gupta)
Scientist-B
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
To verify authentication of letter, kindly scan the QR code on this letter.



Office of the
Divisional Railway Manager
Electrical (G) Department
North Central Railway
Prayagraj

No.: 181-Elect-G/KUMBH-2025 /PRYJ/2024
Date: 11.12.2024

**L&T, Philips, Surya, Secure, Bajaj, Havells, Bentec (Benlo),
HPL, Indoasian, Optilux, CRI, Luminous Solar, Orient, BCH, Halonix
Hiway lighting, Shivoham Techno, Godwin & Polycab/Renew/Panasonic/Pascal
Goldwyn**

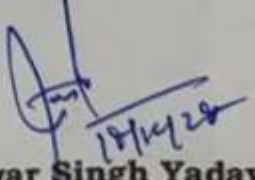
Sub: - Observance of National Energy Conservation Day.

Energy Conservation week is being celebrated in PRYJ Division and exhibition will be organised at HQ/SFG on 20th December for Energy efficient items. Stall for exhibition will be provided free of cost.

If you are willing to demonstrate recent energy efficient products then kindly send the list of products, so that approval can be taken for products demo in exhibition.

For any help regarding exhibition at HQ/SFG, please feel free to contact following person.

Sunil Prasad Srivastava: Mob 9794867026
Akhilesh kumar: Mob 9794867073
Animesh Srivastava: Mob 9794867079
Timing For Exhibition: 08:00 AM


(Kunwar Singh Yadav)
Sr.DEE (G) PRYJ



North Central Railway

Letter No :- 01/वि./टी.एल.-प्रयागराज/25

Date :- 18/03/2025

Office

Senior Section Engineer
North Central Railway
Prayagraj

To,

The Managing Director

HiWAY Lighting Solutions Private Limited

Indore, Madhya Pradesh

Email: info@hiwayledlights.in | Contact: +91 8989997117

Subject: Performance Letter for LED Lighting supply

Respected Sir/Madam,

We are pleased to acknowledge the successful supply of LED lights by HiWAY Lighting Solutions Private Limited for [Pit Light Supply & Installation /Prayagraj].

Your company has supplied LED lights as per the agreed specifications, and we appreciate the quality of products and services provided. The supplied LED lights are meeting the required industry standards and government regulations, ensuring energy efficiency and durability. The installed lights are functioning effectively, providing excellent illumination and energy savings.

We appreciate your efforts and look forward to collaborating on future projects. Based on our experience, we acknowledge HiWAY Lighting Solutions Private Limited as a reliable and competent provider of LED lighting solutions.

Best Regards

Arun Kumar Singh

SSE/TL/NCR/PPYIG

Senior Section Engineer (E/LG)

ग. त. प्रयागराज (विद्युत)

ग. त. प्रयागराज



Ref No: - GSIE2202R/328

Date: 12-05-2023

To,
Authorized Signatory,
Agroh Diu link Highway Pvt. Ltd.,
Aqua Point, Old A.B Road,
Village Umariya, Mhow, Indore-453331
Email: agrohdiulink@gmail.com

Name of the Work: Independent Engineer (IE) Services for operation and maintenance works and supervision of balance construction works for the projects:

4 laning of Kagvadar - Una section of NH-8E from km 139.915 to km 180.478 (design chainage from km 140.470 to km 181.450) (Package-IV) through HAM

Ref: 1. Concessionaire letter ADLHPL/NH8E/PKG4/IE/1105 Dated: 04-05-2023
2. This office Email, Dated: 10-05-2023 reg. requirement of BIS certificate
3. Concessionaire Email, Dated: 11-05-2023 Reg. submission of BIS certificate

Sub: Submission of Credential and Company Profile of HiWAY Lighting Solutions Pvt Ltd for Highway Lighting from Ch. 140+470 to 181+450 (Excluding Nageshri Toll Plaza section)

Dear Sir,

In context to the above mentioned subject and letter referred in Sr. No. (1), The submitted company credentials of "HiWAY Lighting Solutions Pvt Ltd" to carry out the supply, installation, and commissioning of highway lighting for Total Project Highway (From Ch. 140+470 to Ch.181+450 excluding Nageshri Toll Plaza section) has been reviewed from our end and are found as per the requirements and can be used for the above mentioned project work.

In case any non-conformance in the test result or any deviation found in source of product during the construction stage, the said approval would be treated as rejected and revised approval shall be taken from Independent Engineer.

This is for your kind information and necessary action please.




M/s ISAN Corporation in JV with
Geo Designs and Research Pvt Ltd.

CC to The General Manager (Tech) & Project Director, NHAI, PIU-Somnath for Information please.

Independent Engineer for 4-Laning of Tarsod - Fagne
(PKG-IIB) section of NH-6 in the state of Maharashtra
on Hybrid Annuity mode, under NHDP Phase - IV

Letter no: AA/2099/FT/2023-24/FTCPL/1764

Date:03/04/2023

To,
Authorized Signatory,
Fagne Tarsod Corridor Pvt. Ltd,
Site Office:"Gate No.97" Pokhari Tanda Village,
Near Paldhi.NH-6, Tehsil-Dharangaon.
Dist-Jalgaon.(MH)

Sub: Independent Engineer Services for Four Laning of Tarsod - Fagne (Package-IIB) section of NH-6 from Km. 422.700 to Km. 510.000 in the State of Maharashtra to be executed on Hybrid Annuity under NHDP Phase-IV- **Reg – Review of Factory Acceptance Test certificate of M/s Highway Lighting solutions private limited.**

Ref: 1) Your letter No. FTCPL/IE/2022-23/1731, dated- 28.01.2023.
2) Our letter No. AA/2099/FT/2022-23/FTCPL/1638, dated- 20.12.2022.

Dear Sir,

This has reference to the above letter no.1734 cited 1st, where in you have submitted the Factor Acceptance Test Certificate for our review.

The same ~~copy~~ has been reviewed in reference to Cl.2g (1), of Annex-1 of Schedule-C, Concession Agreement and in accordance with Manual of Specifications and Standards of 4 Laning of National Highways through Public Private Partnership published by Indian Road Congress IRC: SP:84-2014.

IE Approve M/s Highway lighting Solutions Private limited ^{to} used at site.

This is for your kind information and necessary compliance.

With best regards,

for Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.



Pradeep Kumar Dwivedi
Team Leader
Tarsod Fagne Project
Jalgaon



CC: 1. The Project Director, NHAI PIU-Jalgaon

BCC: 2. The Authorized Signatory, Aarvee Associates, Hyderabad



PERFORMANCE LETTER

Ref- JEC/LT/25-26-/21

Date- 21/06/25

To,

Managing Director
Hiway lighting solution Pvt.Ltd.
Indore (M.P.)

Subject: – Performance letter for Solar Street Lights.

Dear Sir,

We are pleased to acknowledge the successful supply of Solar Street Lights (60W) by **Hiway Lighting Solution Pvt. Ltd.** for the project: "Strengthening/Major Maintenance work of Chhindwara-Soaner Section & Chhindwara Ring Road (133.222 km) Chhindwara-Amarwara-Narsingpur (113.000 km) Chhindwara- Multai & Sonakhar-Seoni section (136.877 km) of NH-347 & NH-547 in the state of Madhya Pradesh & Maharashtra on EPC mode (approx. 383.099 km)".

Your company has supplied Solar Street Lights as per the agreed specification, and we appreciated the quality of products and service provided. The supplied Solar Street Lights are meeting the required industry standards and government regulations, energy efficiency and durability. the installed Solar Street Lights are functioning effectively, providing excellent illumination.

We appreciate your efforts and look Forward to collaborating on future projects. Based on our experience, we acknowledge Hiway Lighting Solution Pvt. Ltd. As reliable and competent of Lighting solutions.

Thanking you,

Yours faithfully,

For M/S Jai Gurudev Engineering Consultants



Authorized Signatory



SPEED E-TECH
Accelerating Your Digital
Security and IT Solutions

TILAK BHAWAN WARD,
WARD NO. 11
FASHION MARKET,
HARDA, (M.P),
461331

+91 7610416788 📞

speedetechassistance@gmail.com ✉️

To,
The Managing Director
HiWAY Lighting Solutions Private Limited
Indore, Madhya Pradesh
Email: info@hiwayledlights.in | Contact: +91 8989997117

Date:19/06/2025

Subject: Performance Letter for LED Street Light Supply

Respected Sir/Madam,

We are pleased to acknowledge the successful and timely supply of LED street lights by HiWAY Lighting Solutions Private Limited for the municipal street lighting project carried out at Nagar Palika Harda, Madhya Pradesh.

Under this project, your company supplied the following materials:

110W LED Street Lights – 1000 Nos.

48W LED Street Lights – 4000 Nos.

The supplied lights meet all required quality standards and specifications, ensuring long-term performance, energy efficiency, and durability. The products were delivered in good condition and within the stipulated timeframe, which significantly contributed to the smooth execution of the project.

We appreciate your continued support and professional cooperation throughout the project. Based on this experience, we consider HiWAY Lighting Solutions Private Limited a reliable and capable supplier of quality LED lighting solutions.

We look forward to continued collaboration in future government and private sector projects.

Sincerely,
Speed E-Tech,
Harda (M.P.)

For-Speed E-Tech, Harda
[Signature]
Proprietor



JAINSON ELECTRICALS & APPLIANCES

PROJECT (AGROH INFRASTRUCTURE DEVELOPERS PVT. LTD.

Tarsod to Fagne Project, NH-6, Package-IIBPaldi
Camp Office, Jalgaon, Maharashtra)

HiWAY Lighting Solutions Pvt Ltd Indore

Address :- Survey No 142/2, Near Govt School, Gari
Piplia gram, After Mangalia Railway crossing,
Mangalia, Indore

WORK ORDER NO : AIDPL/NH6-IIB/WO/2022/001

DATE OF W.O. : 15-Dec-22

DISTRIBUTION

H.O., INDORE	Information
SUB-CONTRACTOR	✓
CONTRACTS	✓
ACCOUNTS	✓

Attn. :- Mr. Nitin Jain (8989997117)

Date for Commencement of Works : Refer Below

Date of Completion of Works : - Refer Below

Amount of Liquidated Damages : Nil.

Period of Maintenance : NIL

Percentage of Retention : NIL

Limit of Retention Money : NIL

Drawing / Sketch No : NIL

Payment Term : Refer Below

Schedule of Rate /Lump Sum : Refer Below

TDS Deduction: As per Government norms

JAINSON GST DETAILS

SUPPLIER/SUB-CON GST, PAN & BANK DETAILS

23AEDPJ8213K1ZP

GST NO.	23AAECH7954D1Z0	PAN NO. AAECH7954D
BANK NAME:	AXIS BANK	A/c No. 919020007967154
BRANCH NAME:	VIJAY NAGAR INDORE	IFSC CODE: UTIB0000568

A. Scope of Work :

Providing supply, installation, testing and commissioning of Highway Lighting as per Concession Agreement

The Work-Contract shall comprise but not be limited to:-

All works as mentioned below related to the Work Contract for Supply, Installation, Testing and Commissioning services for Highway Lighting works in between Tarsod to Fagne Project and all other works in accordance with this Letter of Award, the attached Bill of Quantities (BOQ), Conditions of Work-Contract and other relevant documents of the Work-Contract.

- The rates mentioned in Annexure-A are for the Fagne-Tarsod Project for complete Highway lighting works mentioned above.
- The work is defined as Supply, Installation, Testing and Commissioning of Highway Lighting as per Concession Agreement and MoRTH with a Defect Liability period of 2 years, for Fagne Tarsod Project. The details of all items to be supplied and installed, with their quantity, is provided in Annexure-A attached with this work order.
- The scope of HiWAY Lighting Solutions Pvt Ltd Indore (herein referred as the Agency) shall include the following:
 - Submitting the design/documents to concerned IE and the Authority will be done by the Agency. Approval will also be in the scope of the Agency.
 - The items to be supplied shall be as per specifications of the Concession Agreement, MoRTH and shall be approved by concerned IE and NHAI.
 - The lightings supplied by the agency provided 1 year warranty but after discussion, warranty period extended to 2 years after the date of its installation on site. Lighting agency provide Ex Factory warranty.
 - The standard warranty of other equipment (except wires and cables) installed by the Agency shall be 2 years (as applicable)
 - The rates of items mentioned in Annexure-A are inclusive of supply, transportation, handling cost till Installation on site and commissioning.
 - The rates of items mentioned in Annexure-A are exclusive of GST. GST shall be extra on item to item basis as per actual.
 - The delivery and installation of highway lighting works shall be carried out by the Agency within 100 days from the date of this work order depending upon site readiness.
 - The storage of the material on site shall be under the scope of the Agency, AIDPL shall assist in providing the open space for storing the items supplied on site.
- The scope of AGROH INFRASTRUCTURE DEVELOPERS PVT LTD (herein referred as AIDPL) shall include the following:
 - The civil works such as a.) preparation of foundations for lighting poles and; b.) trenching for electrical connections shall be under the scope of AIDPL. However, the drawing for execution of the civil works shall be provided by the Agency to AIDPL.
 - Electricity and back up for power supply shall be in the scope of AIDPL.

Accepted and Signed by:
The Sub-Contractor / Supplier
HiWAY Lighting Solutions Pvt Ltd Indore

Name : Mr. Nitin Jain (8989997117)
Dated : 15-Dec-22

Approved on behalf of
JAINSON ELECTRICALS & APPLIANCES



Authorized Signatory



SPEED E-TECH
Accelerating Your Digital
Security and IT Solutions

TILAK BHAWAN WARD,
WARD NO. 11
FASHION MARKET,
HARDA, (M.P),
461331

+91 7610416788

speedetechassistance@gmail.com

PURCHASE ORDER (PO)

To,
Hiway Lighting Solution Pvt. Ltd.
Survey No. – 142/2 Village Garipipliya Sawer
Indore, Madhya Pradesh, 453771
Gst – 23AAECH7954D1ZO

PO No.: SET/HIWAY- 62-24/25

Date: 31/01/2022

➤ Order Details-

Item Description	Wattage	Quantity	Warrenty
LED Street Light	48 Watt	4000 Pcs	2Yrs

➤ Order Reference:

We, Speed E-Tech, Harda, have received this order from Nagar Palika Parisad, Harda on the GeM Portal, based on the authorization provided by Hiway Lighting Solution Pvt. Ltd. to supply their products.

➤ Delivery Details:

Delivery Address: Nagar Palika Parisad, Harda, Madhya Pradesh

● Terms & Conditions:

1. The supplied LED street lights should meet the quality and specifications required by Nagar Palika Parisad, Harda.
2. Warranty and guarantee terms as per manufacturer policy.
3. Any defects or damages during transit will be the supplier's responsibility.
4. Invoice should be raised in the name of **Speed E-Tech, Harda**.

Authorized Signatory

Speed E-Tech, Harda

For-Speed E-Tech, Harda
Kishorjain
Proprietor



SPEED E-TECH
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Security and IT Solutions

TILAK BHAWAN WARD,
WARD NO. 11
FASHION MARKET,
HARDA, (M.P),
461331

+91 7610416788

speedetechassistance@gmail.com

PURCHASE ORDER (PO)

To,
Hiway Lighting Solution Pvt. Ltd.
Survey No. – 142/2 Village Garipipliya Sawer
Indore, Madhya Pradesh, 453771
Gst – 23AAECH7954D1ZO

PO No.: SET/HIWAY- 48-24/25

Date: 12/07/2024

➤ Order Details-

Item Description	Wattage	Quantity	Warrenty
LED Street Light	110 Watt	1000 Pcs	2Yrs

➤ Order Reference:

We, Speed E-Tech, Harda, have received this order from Nagar Palika Parisad, Harda on the GeM Portal, based on the authorization provided by Hiway Lighting Solution Pvt. Ltd. to supply their products.

➤ Delivery Details:

Delivery Address: Nagar Palika Parisad, Harda, Madhya Pradesh

● Terms & Conditions:

1. The supplied LED street lights should meet the quality and specifications required by Nagar Palika Parisad, Harda.
2. Warranty and guarantee terms as per manufacturer policy.
3. Any defects or damages during transit will be the supplier's responsibility.
4. Invoice should be raised in the name of **Speed E-Tech, Harda**.

Authorized Signatory

Speed E-Tech, Harda

For-Speed E-Tech, Harda
Kishor Jais
Proprietor

अनुबंध | Contract

अनुबंध क्रमांक | Contract No: GEMC-511687742622267

अनुबंध तिथि | Generated Date : 20-Aug-2024



संगठन विवरण Organisation Details	खरीदार विवरण Buyer Details
प्रारूप Type : Central PSU	पद Designation : TNST1135983
मंत्रालय Ministry : Ministry of Petroleum and Natural Gas	संपर्क नंबर Contact No. : 04368-235190-
विभाग Department : NA	ईमेल आईडी Email ID : buycon1.ongc.tn@gembuyer.in
संगठन का नाम Organisation Name : Oil and Natural Gas Corporation Limited	जीएसटीआईएन GSTIN : -
कार्यालय क्षेत्र Office Zone : Cauvery Asset Karaikal	पता Address : VJ # 5, CAUVERY ASSET, ONGC, AYYANAR KOVIL STREET, BEHIND HOTEL KASIS, TIRUVARUR, TIRUVARUR, TAMIL NADU-610001, India

वित्तीय स्वीकृति विवरण Financial Approval Detail	भुगतान प्राधिकरण विवरण Paying Authority Details
आईएफडी सहमति IFD Concurrence : No	Role: PAO
प्रशासनिक अनुमोदन का पदनाम Designation of Administrative Approval: DGM(E)	भुगतान का तरीका Payment Mode: ONGCOnline
वित्तीय अनुमोदन का पदनाम Designation of Financial Approval: CM(F&A)	पद Designation : KKLFA4P106221
	ईमेल आईडी Email ID : pao6.ongcl.py@gembuyer.in
	जीएसटीआईएन GSTIN : 34AAAAC01598A1Z5
	पता Address : OIL AND NATURAL GAS CORPORATION LTD., Cauvery Asset, Neravy Complex, Neravy, Karaikal, PUDUCHERRY-609604, India

विक्रेता विवरण Seller Details
जेम विक्रेता आईडी GeM Seller ID : D4E1180000432695
कंपनी का नाम Company Name : BRIGHT WORLD
संपर्क नंबर Contact No. : 08989997117
ईमेल आईडी Email ID : jainnit_12@yahoo.com
पता Address : M-2,sarthak plaza,15/1 maharani road,Indore, Indore, MADHYA PRADESH-452001, -
एमएसएमई पंजीकरण संख्या MSME Registration number : UDYAM-MP-23-0021089
एमएसई सामाजिक श्रेणी MSE Social Category : General
एमएसई लिंग श्रेणी MSE Gender : Male
जीएसटीआईएन GSTIN: 23AGTJ3565C1ZF (R)

*जिसके नाम के पक्ष में GST/TAX इनवॉइस पेश किया जाएगा | GST / Tax invoice to be raised in the name of - Consignee

वितरण निर्देश | Delivery Instructions : 1.DELIVERY PERIOD 45 DAYS FROM THE DATE OF PLACEMENT OF GEM CONTRACT WITHOUT LD 2.CONCESSIONAL GST 12PC IS APPLICABLE ON ISSUE OF EC SELLER HAS TO ACCEPT THE SAME. 3.INSPECTION SHALL BE CARRIED OUT BY ONGC QAD.

उत्पाद विवरण Product Details						
#	आइटम विवरण Item Description	आइटम विवरण Ordered Quantity	इकाई Unit	इकाई मूल्य (INR) Unit Price (INR)	कर विभाजन (INR) Tax Bifurcation (INR)	मूल्य (INR में सभी शुल्क और कर सहित) Price (Inclusive of all Duties and Taxes in INR)
1	उत्पाद का नाम Product Name : hi-way Led Flood Light, Power 240 Watt ब्रांड Brand : hi-way ब्रांड प्रकार Brand Type : Registered Brand कैटलॉग की स्थिति Catalogue Status: Catalogue not verified by OEM कैसे बेचा जा रहा है Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश Category Name & Quadrant : Led Flood Light (Q3) मॉडल Model: Led Flood Light एचएसएन कोड HSN Code: HSN not specified by seller	150	pieces	2,499	NA	374,850
कुल ऑर्डर मूल्य Total Order Value (in INR)						374,850

परोक्षी विवरण Consignee Detail						
क्र.सं. S.No	परोक्षी Consignee	वस्तु Item	लॉट नंबर Lot No.	मात्रा Quantity	दिनांक के बाद डिलीवरी शुरू करना है Delivery Start After	वितरण पूरा कब तक करना है Delivery To Be Completed By

Organisation Details	Buyer Details
Type: Central PSU	Designation: Deputy Manager Excavation
Ministry: Ministry of Coal	Contact No.: 75873-91287-
Department: Materials Management	Email ID: anitkumar.jain@nic.in
Organisation Name: South Eastern Coalfields Limited	GSTIN: -
Office Zone: Secl Bilaspur Cg	Address: SECL CEWS GEVRA AREA, KORBA , CG, KORBA, CHHATTISGARH-495452, India

Financial Approval Detail	Paying Authority Details
IFD Concurrence: No	Payment Mode: Offline
Designation of Administrative Approval: GM,CEWS GEVRA	Designation: AM FINANCE
Designation of Financial Approval: AFM, CEWS GEVRA	Email ID: deepak.dewangan8185@nic.in
	GSTIN: -
	Address: SECL CEWS GEVRA AREA, KORBA , CG, Korba, CHHATTISGARH-495452, India

Seller Details	
GeM Seller ID: -	
Company Name: HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED	
Contact No.: 09826230852	
Email ID: tanmaypatni31@gmail.com	
Address: 24/7/3 SDA Compound, Lasudia mori, DEWAS NAKA, Indore, MADHYA PRADESH-452010, -	
MSME verified: No	
GSTIN: 23AAECH7954D1ZO	

*GST / Tax invoice to be raised in the name of - Buyer

Product Details							
#	Item Description	Category Name	Model	HSN Code	Ordered Quantity	Unit	Price (Inclusive of all Duties and Taxes in INR)
1	SL 70 W	Led Street Light	HW SL 70W	HSN not specified by seller	60	pieces	168,599.4
Total Order Value (in INR)							168,599.4

Consignee Detail						
S.No	Consignee	Item	Lot No.	Quantity	Delivery Start After	Delivery To Be Completed By
1	Designation: SO MM Email ID: ss.sah0536@nic.in Contact: 0942-5534008- GSTIN: 22AADCS2066E9ZL Address: SECL GEVRA AREA, KORBA, CHHATTISGARH-495452, India	SL 70 W	-	60	24-Dec-2020	08-Jan-2021

Product Specification for SL 70 W		
Specification	Sub-Spec	Value
Electrical Efficiency	AC Power Factor at full load	>/=0.95
	Total Harmonics Distortion	</=10
	The total circuit power shall not be more than 110 percent of the value declared by the manufacturer (as per Cl. 8 of IS:16104:2012 lates)	Yes
	Rated voltage	230 V AC 50 Hz



PURCHASE ORDER

Ref: JEC/PO/23-24/04

Date: 14-03-2024

To,
Hiway Lighting Solution Pvt Ltd
Gari Pipalya, Indore
Madhya Pradesh 453771
GSTIN: 23AAECH7954D1ZO

Kind Attn: Mr. Nitin Jain, Managing Director - Hiway Lighting Solution Pvt Ltd.

Sub: Purchase Order for Supply of Integrated Solar Street light in selected locations for the project: "Strengthening/Major Maintenance work of Chhindwara-Soaner Section & Chhindwara Ring Road (133.222 km) Chhindwara-Amarwara-Narsingpur (113.000 km) Chhindwara- Multai & Sonakhar-Seoni section (136.877 km) of NH-347 & NH-547 in the state of Madhya Pradesh & Maharashtra on EPC mode (approx. 383.099 km)".

Dear sir,

JEC. has awarded you the work for Supply of Integrated Solar Street light in the above- mentioned project. The scope of work is mentioned below.

Sr. No.	Description	UoM	Qty	Rate (₹)	Amount
1	60 W INTEGRATED SOLAR STREET LIGHT	No.	900	7100	6390000
2	80 W INTEGRATED SOLAR STREET LIGHT	No.	300	8000	2400000

Prices are excluding GST.

The vendor hereby agrees to accept the PO on the following terms and conditions.

TERMS AND CONDITIONS:

- **Warranty:** The supplier warrants that the solar streetlights shall be free from defects in materials and workmanship for a period of (2 Years) from the date of delivery. Any defects discovered during this period will be repaired or replaced by the supplier at no additional cost to the buyer.
- **Retention Money:** The buyer shall retain 5% of the total contract value as retention money for a period of 2 years from the date of delivery. This retention money will serve as security against any potential defects or issues arising during the warranty period.
- **Payment Conditions:**
 - 50% Advance
 - 45% - After 30 Days of the billing



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Uttar Pradesh - 201102

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Email: Info@blueskylab.in



TC-9825

TEST REPORT

SUMMARY OF TEST REPORT

TEST REPORT NO: SC24EP113670_1


DATE: 28/10/2024

ULR- TC982524000002239F

(Number of Pages in Test Report: Page No. 1 to 35)

TEST FORMAT AS PER IS 10322 (Part 5/Sec 1): 2012

1. Name of the Manufacturer: HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
2. Product: LED HIGHBAY LIGHT (Fixed General Purpose LED Luminaires)
3. Model:

Sr. No.	Models	Brand/Trademark
1.	HW60W	
2.	HW48W	
3.	HW36W	
4.	HW30W	
5.	HW24W	
6.	HW20W	
7.	HW18W	
8.	HW12W	
9.	HW10W	
10.	HW09W	

4. Model differences provided (if applicable): Yes
5. Model differences verified as per MEITY Guidelines for series formulation: Yes
6. Test Results: Refer below

PARTA: GENERAL

SL. NO.	TEST REQUIREMENT	CLAUSE	VERDICT
1.	Marking	6(3)	P
2.	Construction	7(4)	P
3.	Creepage Distances And Clearances	8(11)	P
4.	Provision For Earthing	9(7)	P
5.	Terminals	10(14)	N/A
6.	External And Internal Wiring	11(5)	P
7.	Protection Against Electric Shock	12(8)	P
8.	Endurance Tests And Thermal Tests	13(12)	P
9.	Resistance To Dust And Moisture	14(9)	P
10.	Insulation Resistance And Electric Strength	15(10)	P
11.	Resistance to Heat, Fire And Tracking	16(13)	N/A
12.	Photometric Tests	17	N/A





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TC-9825

TEST REPORT

TEST REPORT NO: SC24EPI13670_1

DATE: 28/10/2024

ULR- TC982524000002239F

GENERAL INFORMATION:

- 1) The conformity certificates of critical components are verified to ensure complete testing of apparatus under test and details regarding harmonized IEC standards (where IEC standards are not available) are also provided in the list of critical components.
- 2) All tests have been performed on **Lead Model: HW18W** only.

CONCLUSION:

- 1) Sample meets all relevant requirements of IS 10322 (Part 5/Sec 1): 2012
- 2) ~~Sample fails to meet the following test requirements.~~

I, hereby undertake that the verdict stated in the test reports for all the test matches with the test results. The sample meets all relevant requirements IS 10322 (Part 5/Sec 1): 2012 / ~~does not meet the requirements~~. If any deviation found, suitable punitive action may be taken by BIS.

Date: 28/10/2024



(Signature of Authorized person with Stamp)



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TC-9825

TEST REPORT

Report No. SC24EPI13670_1

Page No.: 1 of 35

ULR- TC982524000002239F

Issue Date: 28/10/2024

Manufacturer:	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED, KHASRA NO.142/2, GARIPLIYA, GARIPLIYA, 142/2, TEHSIL SANWER, INDORE ,452001 MADHYA PRADESH , MADHYA PRADESH, 452001	
Test item:	LED Highbay Light (Fixed General Purpose LED Luminaires)	
Identification:	See table on page no. 7	Serial No.: Nil
Receipt/Job No.:	SC24EPI13670	Date of receipt: 09/10/2024
Testing laboratory and its address:	BLUESKY LAB LLP 1st, 2nd, 3rd Floor, Plot no 62, 63 Ganga Enclave, BehtaHajipur, Loni Border, Main Delhi Saharanpur Road, Near Johri Enclave Metro Station, Ghaziabad, Uttar Pradesh-201102	
Test specification:	IS 10322 (Part 5/ Sec 1):2012	
Test Result:	The test item passed the test specifications.	
Other Aspects:	This report consists of 35 pages and the attachment:	

Tested by:	Reviewed by / Authorized Signatory:	Issued by:
		
Testing Engineer: GOVIND SINGH Date: 28/10/2024	Technical Manager: Kapil Kumar Dhaka Date: 28/10/2024	C.E.O: Kapil Kumar Dhaka Date: 28/10/2024



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 Email: Info@blueskylab.in



TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:2 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

TEST REPORT IS10322 (Part 5/Sec 1) Luminaires Part 5: Particular requirements Section 1: Fixed general purpose luminaires	
Report Number..... :	SC24EPI13670_1
Date of issue	28/10/2024
Total number of pages	35
Applicant's name	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
Address..... :	M/S HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED, KHASRA NO.142/2, GARIPLIYA, GARIPLIYA, 142/2, TEHSIL SANWER, INDORE ,452001 MADHYA PRADESH , MADHYA PRADESH, 452001
Test specification:	
Standard	IS 10322 (Part 5/ Sec 1):2012
Test procedure..... :	Compliance Report
Non-standard test method..... :	N/A
Test Report Form No..... :	BIS_LUM/FGPL_IS10322-5-1_V1.0
Test Report Form(s) Originator..... :	Bureau of Indian Standards
Master TRF	23/01/2015
Test item description..... :	LED HIGHBAY LIGHT (Fixed General Purpose LED Luminaires)
Trade Mark..... :	
Manufacturer..... :	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
Model/Type Reference..... :	See table on page no. 7
Rating..... :	LEAD MODEL: 110VAC, 60Hz, 18W, 0.178A, PF:>0.90, ta:45°C, tc:75°C, IP65, Class-I, MADE IN INDIA SERIES MODEL: See copy of marking plate on page no.4-5

Tested by:	Reviewed by / Authorized Signatory:	Issued by:
		
Testing Engineer: GOVIND SINGH	Technical Manager: Kapil Kumar Dhaka	C.E.O: Kapil Kumar Dhaka
Date: 28/10/2024	Date: 28/10/2024	Date: 28/10/2024



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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:3 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Test Code	Description	Measurement/ testing	Total No. of tests	Total no. of applicable tests/ Req.	No. of tests/ Req. Passed	Page No.
EL 2400	Marking	Marking Cl. 6(3)	28	16	16	9
EL 2401	Construction	Construction Cl. 7(4)	127	22	22	10-14
EL 2402	Creepage Distances And Clearances	Creepage Distances And Clearances Cl. 8(11)	10	07	07	15
EL 2403	Provision For Earthing	Provision For Earthing Cl. 9(7)	19	11	11	16
EL 2404	Terminals	Terminals Cl. 10(14)	04	00	N/A	17-18
EL 2405	External And Internal Wiring	External And Internal Wiring Cl. 11(5)	72	25	25	19-21
EL 2406	Protection Against Electric Shock	Protection Against Electric Shock Cl. 12(8)	18	03	03	22
EL 2407	Endurance Tests And Thermal Tests	Endurance Tests And Thermal Tests Cl. 13(12)	08	03	03	23-24
EL 2408	Resistance To Dust And Moisture	Resistance To Dust And Moisture Cl. 14(9)	12	06	06	25
EL 2409	Insulation Resistance And Electric Strength	Insulation Resistance And Electric Strength Cl. 15(10)	07	05	05	26-27
EL 2410	Resistance to Heat, Fire And Tracking	Resistance to Heat, Fire And Tracking Cl. 16(13)	04	00	N/A	28
EL2411	Photometric Tests	Photometric Tests Cl. 17	02	00	N/A	29

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

.....

(Approving Authority)





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:4 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Copy of marking plate:



TRADE MARK

Hi-way		LED DRIVER	
MODEL: HW0018W	IS 15885 (Part 2/Sec 13): 2012	Pout: 18W	DC OUTPUT +
Vin: 110VAC, 60Hz		Iout: 0.178A	
Pin: 18W		R-32001201 www.bis.gov.in	
PF:0.9, ta:45°C, tc:75°C	IP20	SELV	Made In India

MARKING PLATE OF LED DRIVER

Hi-way	LED HIGHBAY LIGHT
● L Model: HW60W 110VAC, 60Hz	Power: 60W, 0.58A PF:>0.9, ta:45°C, tc:75°C
● N ● E MADE IN INDIA	IP65

Hi-way	LED HIGHBAY LIGHT
● L Model: HW48W 110VAC, 60Hz	Power: 48W, 0.44A PF:>0.9, ta:45°C, tc:75°C
● N ● E MADE IN INDIA	IP65

Hi-way	LED HIGHBAY LIGHT
● L Model: HW36W 110VAC, 60Hz	Power: 36W, 0.34A PF:>0.9, ta:45°C, tc:75°C
● N ● E MADE IN INDIA	IP65

Hi-way	LED HIGHBAY LIGHT
● L Model: HW30W 110VAC, 60Hz	Power: 30W, 0.28A PF:>0.9, ta:45°C, tc:75°C
● N ● E MADE IN INDIA	IP65





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:5 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

<p>Hi-way LED Highbay Light</p> <p>● L Model: HW24W 110VAC, 60Hz</p> <p>● N</p> <p>● E MADE IN INDIA</p> <p>Power: 24W, 0.22A PF:>0.90, ta:45°C, tc:75°C</p> <p> IP65</p>	<p>Hi-way LED Highbay Light</p> <p>● L Model: HW20W 110VAC, 60Hz</p> <p>● N</p> <p>● E MADE IN INDIA</p> <p>Power: 20W, 0.18A PF:>0.90, ta:45°C, tc:75°C</p> <p> IP65</p>
<p>Hi-way LED Highbay Light</p> <p>● L Model: HW12W 110VAC, 60Hz</p> <p>● N</p> <p>● E MADE IN INDIA</p> <p>Power: 12W, 0.12A PF:>0.90, ta:45°C, tc:75°C</p> <p> IP65</p>	<p>Hi-way LED Highbay Light</p> <p>● L Model: HW10W 110VAC, 60Hz</p> <p>● N</p> <p>● E MADE IN INDIA</p> <p>Power: 10W, 0.10A PF:>0.90, ta:45°C, tc:75°C</p> <p> IP65</p>
<p>Hi-way LED Highbay Light</p> <p>● L Model: HW09W 110VAC, 60Hz</p> <p>● N</p> <p>● E MADE IN INDIA</p> <p>Power: 09W, 0.08A PF:>0.90, ta:45°C, tc:75°C</p> <p> IP65</p>	
MARKING PLATE OF SERIES MODEL	





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:6 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Table – List of Attachments

Attachment No.	Attachment Description	No. of pages in Attachment
Attachment - 1	Photo Document	01 (Page No.35)

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Possible test case verdicts:

- test case does not apply to the test object : N/A
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement : F (Fail)

Testing :

Date of receipt of test item : 09/10/2024
Date(s) of performance of tests : From 09/10/2024 to 28/10/2024

Laboratory conditions :
Ambient Temperature : 23±5°C
Ambient Humidity : <70%Rh





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:7 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

General product information:
Product Description: LED HIGHBAY LIGHT (Fixed General Purpose LED Luminaires)

Model Tested:

Sr. No.	Product description	Model	Specifications
1.	LED HIGHBAY LIGHT (Fixed General Purpose LED Luminaires)	HW18W	110VAC, 60Hz, 18W, 0.178A, PF:>0.90, ta:45°C, tc:75°C, IP65, Class-I, MADE IN INDIA

SERIES MODELS:

Sr. No	Product Description	Model	Specifications	Variation From Family Representative
1	LED HIGHBAY LIGHT (Fixed General Purpose LED)	HW60W	110VAC, 60Hz, 60W, 0.58A, PF:>0.90 ta:45°C, tc:75°C, IP65, Class-I, MADE IN INDIA	Model Name, Current and Voltage only
2		HW48W	110VAC, 60Hz, 48W, 0.44A, PF:>0.90 ta:45°C, tc:75°C, IP65, Class-I, MADE IN INDIA	
3		HW36W	110VAC, 60Hz, 36W, 0.34A, PF:>0.90 ta:45°C, tc:75°C, IP65, Class-I, MADE IN INDIA	
4		HW30W	110VAC, 60Hz, 30W, 0.28A, PF:>0.90 ta:45°C, tc:75°C, IP65, Class-I, MADE IN INDIA	
5		HW24W	110VAC, 60Hz, 24W, 0.22A, PF:>0.90 ta:45°C, tc:75°C, IP65, Class-I, MADE IN INDIA	
6		HW20W	110VAC, 60Hz, 20W, 0.18A, PF:>0.90 ta:45°C, tc:75°C, IP65, Class-I, MADE IN INDIA	
7		HW12W	110VAC, 60Hz, 12W, 0.12A, PF:>0.90 ta:45°C, tc:75°C, IP65, Class-I, MADE IN INDIA	
8		HW10W	110VAC, 60Hz, 10W, 0.10A, PF:>0.90 ta:45°C, tc:75°C, IP65, Class-I, MADE IN INDIA	
9		HW09W	110VAC, 60Hz, 9W, 0.08A, PF:>0.90 ta:45°C, tc:75°C, IP65, Class-I, MADE IN INDIA	

Supply connections: AC main supply

Representative Models: HW18W

Technical Considerations:

Similarities Between the model: - Same class of construction of luminaire, Same AC input voltage of Registered Electronic control Gear having R. Number, Same material characteristics for enclosure.

Report Summary

All applicable tests according to the referenced standard(s) have been carried out.





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:8 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

DISCIPLINE: ELECTRICAL

GROUP: LAMPS, LUMINAIRES AND ACCESSORIES

Clause No	Test / Requirement name	Code	Test observation result/	Verdict
4 (1)	GENERAL TEST REQUIREMENTS			P
4 (1.1)	Information for luminaire design considered.....:		Standard Yes ✓ No	P
4 (1.3)	More sections applicable.....:		Yes No ✓	N/A
5 (2)	CLASSIFICATION OF LUMINAIRES			P
5 (2.2)	Type of protection		Class I	P
5 (2.3)	Degree of protection.....:		IP65	P
5 (2.4)	Luminaire suitable for mounting on normally flammable surfaces.....:		Yes No ✓	N/A
	Luminaire suitable for mounting on non-combustible materials only		Yes ✓ No	P
5 (2.5)	Luminaire for normal use		Yes ✓ No	P
	Luminaire for rough service		Yes No ✓	N/A





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:9 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
6 (3)	MARKING			P
6 (3.2)	Mandatory markings*	EL 2400-00	See below	P
	Position of the marking*	EL 2400-01	Marking on outer enclosure of luminaire	P
	Format of symbols/text	EL 2400-02	Complies	P
6 (3.3)	Additional information*	EL 2400-03	See below	P
	Language of instructions*	EL 2400-04	English	P
6 (3.3.1)	Combination luminaires*	EL 2400-05	Not a combination luminaires	N/A
6 (3.3.2)	Nominal frequency in Hz*	EL 2400-06	50/60Hz	P
6 (3.3.3)	Operating temperature*	EL 2400-07	ta:45°C	P
6 (3.3.4)	Symbol or warning notice*	EL 2400-08	Symbol Marked	P
6 (3.3.5)	Wiring diagram*	EL 2400-09	Directly connected to mains	N/A
6 (3.3.6)	Special conditions*	EL 2400-10	No such type of construction	N/A
6 (3.3.7)	Metal halide lamp luminaire - warning*	EL 2400-11	No such type of construction	N/A
6 (3.3.8)	Limitation for semi-luminaires*	EL 2400-12	Not a semi-luminaires	N/A
6 (3.3.9)	Power factor and supply current*	EL 2400-13	PF:>0.90, Current: 0.28A	P
6 (3.3.10)	Suitability for use indoors*	EL 2400-14	Not for Indoor use only	N/A
6 (3.3.11)	Luminaires with remote control*	EL 2400-15	No such type of construction	N/A
6 (3.3.12)	Clip-mounted luminaire - warning*	EL 2400-16	No such type of construction	N/A
6 (3.3.13)	Specifications of protective shields*	EL 2400-17	Symbol marked	P
6 (3.3.14)	Symbol for nature of supply*	EL 2400-18	Provided	P
6 (3.3.15)	Rated current of socket outlet*	EL 2400-19	No such type of construction	N/A
6 (3.3.16)	Rough service luminaire*	EL 2400-20	No such type of construction	N/A
6 (3.3.17)	Mounting instruction for type X, type Y and type Z attachments*	EL 2400-21	Type-Y attachment	P
6 (3.3.18)	Non-ordinary luminaires with PVC cable*	EL 2400-22	Rubber cable used	N/A
6 (3.4)	Test with water	EL 2400-23	Complies	P
	Test with hexane	EL 2400-24	Complies	P
	Legible after test	EL 2400-25	Marking is legible after test	P
	Label attached	EL 2400-26	See copy of marking plate	P
6 (3.5.1)	Standard Mark is governed by the provisions of the Bureau of Indian Standards Act,1986*	EL 2400-27	Not marked	N/A

*-Total number of Requirements to be observed/ inspected : 23
 Total No. of applicable Requirement : 11
 No. of Requirements for which the sample passed : 11

Total number of tests to be conducted : 05
 Total No. of applicable Tests : 05
 No. of tests for which the sample passed : 05

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.: 10 of 35
Dated:28/10/2024	ULR- TC98252400002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
7 (4)	CONSTRUCTION			P
7 (4.2)	Components replaceable without difficulty*	EL 2401-00	Components are replaceable without difficulty	P
7 (4.3)	Wireways smooth and free from sharp edges*	EL 2401-01	Wire ways are smooth and free from sharp edges	P
7 (4.4)	Lampholders			N/A
7 (4.4.1)	Integral lampholder*	EL 2401-02	No lamp holder	N/A
7 (4.4.2)	Wiring connection*	EL 2401-03	See above	N/A
7 (4.4.3)	Lampholder for end-to-end mounting*	EL 2401-04	See above	N/A
7 (4.4.4)	Positioning			N/A
	- pressure test (N)	EL 2401-05	See above	N/A
	After test the lampholder complies with relevant standard sheets and show no damage	EL 2401-06	See above	N/A
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation	EL 2401-07	See above	N/A
	- bending test (N)	EL 2401-08	See above	N/A
	After test the lampholder have not moved from its position and show no permanent deformation	EL 2401-09	See above	N/A
7 (4.4.5)	Peak pulse voltage	EL 2401-10	See above	N/A
7 (4.4.6)	Centre contact*	EL 2401-11	See above	N/A
7 (4.4.7)	Parts in rough service luminaires resistant to tracking	EL 2401-12	See above	N/A
7 (4.4.8)	Lamp connectors*	EL 2401-13	See above	N/A
7 (4.5)	Starter holders			N/A
	Starter holder in luminaires other than class II*	EL 2401-14	No starter holder	N/A
	Starter holder class II construction*	EL 2401-15	See above	N/A
	Starter can be touched with the standard test finger in class II luminaires*	EL 2401-16	See above	N/A
7 (4.6)	Terminal blocks			N/A
	Tails	EL 2401-17	No such Terminal block used	N/A
	Unsecured blocks	EL 2401-18	No unsecured block used	N/A
7 (4.7)	Terminals and supply connections			N/A
7 (4.7.1)	Contact to metal parts*	EL 2401-19	No such Terminal block used	N/A
7 (4.7.2)	Test 8 mm live conductor	EL 2401-20	See above	N/A
	Test 8 mm earth conductor	EL 2401-21	See above	N/A
7 (4.7.3)	Terminals for supply conductors	EL 2401-22	See above	N/A
7 (4.7.4)	Terminals other than supply connection*	EL 2401-23	No such type of construction	N/A
7 (4.7.5)	Heat-resistant wiring/sleeves*	EL 2401-24	Temperature not exceeds cable surroundings inside the luminaire	N/A
7 (4.7.6)	Multi-pole plug*	EL 2401-25	No such construction	N/A
7 (4.8)	Switches			N/A
	- adequate rating*	EL 2401-26	No switch used	N/A
	- adequate fixing*	EL 2401-27	See above	N/A
	- polarized supply*	EL 2401-28	See above	N/A
7 (4.9)	Insulating lining and sleeves			N/A
7 (4.9.1)	Retention*	EL 2401-29	No such type of construction	N/A
	Method of fixing.....:	EL 2401-30	See above	N/A
7 (4.9.2)	Insulated linings and sleeves:			N/A





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:11 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
	Resistant to a temperature > 20 °C to the wire temperature or	EL 2401-31	See above	N/A
	a) & c) Insulation resistance and electric strength	EL 2401-32	See above	N/A
	b) Ageing test. Temperature (°C).....:	EL 2401-33	See above	N/A
7 (4.10)	Double or reinforced insulation			N/A
7 (4.10.1)	No contact, mounting surface - accessible metal parts - wiring of basic insulation*	EL 2401-34	Class I	N/A
	Safe installation fixed luminaires*	EL 2401-35	See above	N/A
	Capacitors and switches*	EL 2401-36	No such type of construction	N/A
	Interference suppression capacitors according to ISQC 302400*	EL 2401-37	See above	N/A
7 (4.10.2)	Assembly gaps:			N/A
	- not coincidental*	EL 2401-38	No such type of construction	N/A
	- no straight access with test probe	EL 2401-39	See above	N/A
7 (4.10.3)	Retention of insulation:			N/A
	- fixed*	EL 2401-40	See above	N/A
	- unable to be replaced; luminaire inoperative*	EL 2401-41	See above	N/A
	- sleeves retained in position*	EL 2401-42	See above	N/A
	- tube of insulating material*	EL 2401-43	See above	N/A
7 (4.11)	Electrical connections and current-carrying parts			P
7 (4.11.1)	Contact pressure*	EL 2401-44	No contact pressure is transmitted through insulating material	P
7 (4.11.2)	Screws:			P
	- self-tapping screws*	EL 2401-45	No self-tapping screws used	P
	- thread- cutting screws*	EL 2401-46	No thread- cutting screws used	P
7 (4.11.3)	Screw locking:			N/A
	- spring washer*	EL 2401-47	No such construction	N/A
	- rivets*	EL 2401-48	See above	N/A
7 (4.11.4)	Material of current-carrying parts*	EL 2401-49	Complies	P
7 (4.11.5)	No contact to wood or mounting surface*	EL 2401-50	Complies	P
7 (4.11.6)	Electro-mechanical contact systems	EL 2401-51	No such type of construction	N/A
7 (4.12)	Screws and connections (mechanical) and glands			P
7 (4.12.1)	Screws not made of soft metal*	EL 2401-52	Complies	P
	Screws of insulating material*	EL 2401-53	Metal screw used	N/A
	Torque test: torque (Nm); part.....:	EL 2401-54	Complies, 0.80Nm applied	P
	Torque test: torque (Nm); part.....:	EL 2401-55	See above	N/A
	Torque test: torque (Nm); part.....:	EL 2401-56	See above	N/A
7 (4.12.2)	Screws with diameter < 3 mm screwed into metal*	EL 2401-57	No such construction	N/A
7 (4.12.4)	Locked connections:			N/A
	- fixed arms; torque (Nm).....:	EL 2401-58	No such construction	N/A
	- lampholder; torque (Nm).....:	EL 2401-59	See above	N/A
	- push-button switches; torque 0,8 Nm.....:	EL 2401-60	See above	N/A
7 (4.12.5)	Screwed glands; force (Nm).....:	EL 2401-61	Metal Gland Used 6.25Nm Force Applied, Complies	P
7 (4.13)	Mechanical strength			P
7 (4.13.1)	Impact tests:			P





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:12 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
	- fragile parts; energy (Nm).....:	EL 2401-62	0.20 Nm impact with 13mm compression applied, no damage observed	P
	- other parts; energy (Nm).....:	EL 2401-63	0.35 Nm impact with 17mm compression applied, no damage observed	P
	1) live parts	EL 2401-64	Complies	P
	2) linings	EL 2401-65	No such lining	N/A
	3) protection	EL 2401-66	Adequate protection	P
	4) covers	EL 2401-67	Complies	P
7 (4.13.3)	Straight test finger	EL 2401-68	30N force applied with test finger, no contact with live parts	P
7 (4.13.4)	Rough service luminaires			N/A
	- IP54 or higher	EL 2401-69	Not a rough service luminaire	N/A
	a) fixed	EL 2401-70	See above	N/A
	b) hand-held	EL 2401-71	See above	N/A
	c) delivered with a stand	EL 2401-72	See above	N/A
	d) for temporary installations and suitable for mounting on a stand	EL 2401-73	See above	N/A
7 (4.13.6)	Tumbling barrel	EL 2401-74	No such type of construction	N/A
7 (4.14)	Suspensions, fixings and means of adjusting			P
7 (4.14.1)	Mechanical load:			P
	A) four times the weight	EL 2401-75	Complies	P
	B) torque 2,5 Nm	EL 2401-76	No such type of construction	N/A
	C) bracket arm; bending moment (Nm).....:	EL 2401-77	See above	N/A
	D) load track-mounted luminaires	EL 2401-78	See above	N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)	EL 2401-79	See above	N/A
	Metal rod. diameter (mm)	EL 2401-80	See above	N/A
7 (4.14.2)	Load to flexible cables			N/A
	Mass (kg)	EL 2401-81	No such type of construction	N/A
	Stress in conductors (N/mm ²)	EL 2401-82	No such type of construction	N/A
	Mass (kg) of semi-luminaire	EL 2401-83	No such type of construction	N/A
	Bending moment (Nm) of semi-luminaire	EL 2401-84	No such type of construction	N/A
7 (4.14.3)	Adjusting devices:			P
	- flexing test; number of cycles.....:	EL 2401-85	45 Cycle, Complies	P
	- strands broken.....:	EL 2401-86	No strands broken	P
	- electric strength test afterwards	EL 2401-87	Complies	P
7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors*	EL 2401-88	No such type of construction	N/A
7 (4.14.5)	Guide pulleys*	EL 2401-89	No such type of construction	N/A
7 (4.14.6)	Strain on socket-outlets*	EL 2401-90	No such type of construction	N/A
7 (4.15)	Flammable materials			N/A
	- glow-wire test 650°C.....:	EL 2401-91	No such material used	N/A
	- spacing ≥30 mm	EL 2401-92	No such spacing	N/A
	- screen withstanding test of 13.3.1	EL 2401-93	No such screen	N/A
	- screen dimensions	EL 2401-94	No such screen	N/A
	- no fiercely burning material	EL 2401-95	No such material used	N/A





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:13 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
	- thermal protection	EL 2401-96	No such protection provided	N/A
	- electronic circuits exempted	EL 2401-97	Totally enclosed in an enclosure	N/A
	Luminaires made of thermoplastic material with lamp control gear			N/A
	a) construction*	EL 2401-98	Luminaires not made of thermoplastic material with lamp control gear	N/A
	b) temperature sensing control	EL 2401-99	Temperature sensing control not used	N/A
	c) surface temperature	EL 2401-100		N/A
7 (4.16)	Luminaires marked with V symbol			N/A
	No lamp control gear.....:	EL 2401-101	No such symbol marked	N/A
7 (4.16.1)	Lamp control gear spacing:			N/A
	- spacing 10 mm	EL 2401-102	See above	N/A
	- spacing 35 mm	EL 2401-103	See above	N/A
7 (4.16.2)	Thermal protection:			N/A
	- in lamp control gear	EL 2401-104	No thermal protection	N/A
	- external	EL 2401-105	See above	N/A
	- fixed position	EL 2401-106	See above	N/A
	- temperature marked lamp control gear	EL 2401-107	See above	N/A
7 (4.16.3)	Design to satisfy the test of 12.6	EL 2401-108	See above	N/A
7 (4.17)	Drain holes			N/A
	Clearance at least 5 mm	EL 2401-109	No drain holes	N/A
7 (4.18)	Resistance to corrosion			P
7 (4.18.1)	- rust-resistance	EL 2401-110	No such material used	N/A
7 (4.18.2)	- season cracking in copper	EL 2401-111	No such material used	N/A
7 (4.18.3)	- corrosion of aluminium	EL 2401-112	Complies	P
7 (4.19)	Igniters compatible with ballast*	EL 2401-113	No igniters used	N/A
7 (4.20)	Rough service vibration	EL 2401-114	Not a rough service luminaires	N/A
7 (4.21)	Protective shield			N/A
7 (4.21.1)	Shield fitted if tungsten halogen lamps	EL 2401-115	No tungsten halogen lamp used	N/A
7 (4.21.2)	Particles from a shattering lamp not impair safety	EL 2401-116	See above	N/A
7 (4.21.3)	No direct path	EL 2401-117	See above	N/A
7 (4.21.4)	Impact test on shield	EL 2401-118	See above	N/A
	Glow-wire test on lamp compartment.....:	EL 2401-119	See above	N/A
7 (4.22)	Attachments to lamps not cause overheating or damage*	EL 2401-120	No such attachment	N/A
7 (4.23)	Semi-luminaires complies Class II*	EL 2401-121	No such type of luminaries	N/A
7 (4.24)	UV Radiation			N/A
	UV radiation for metal halide lamps (Annex P)	EL 2401-122	No UV radiations	N/A
7 (4.25)	Mechanical hazard			P
	No sharp point or edges*	EL 2401-123	No sharp point or edges	P
7 (4.26)	Short-circuit protection			N/A
7 (4.26.1)	Adequate means of uninsulated accessible SELV parts	EL 2401-124	No uninsulated SELV parts	N/A
7 (4.26.2)	Short-circuit test	EL 2401-125	See above	N/A
7 (4.26.3)	Test chain according to Fig. 29	EL 2401-126	See above	N/A





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:14 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

*-Total number of Requirements to be observed/ inspected : 45
 Total No. of applicable Requirement : 09
 No. of Requirements for which the sample passed : 09

Total number of tests to be conducted : 82
 Total No. of applicable Tests : 13
 No. of tests for which the sample passed : 13

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:15 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
8 (11)	CREEPAGE DISTANCES AND CLEARANCES			P
8 (11.2)	Working voltage (V).....:	EL 2402-00	240VAC	P
	Voltage form.....:	EL 2402-01	Sinusoidal	P
	PTI.....:	EL 2402-02	<600	P
	Impulse withstand category (Normal category II) (Category III Annex U)	EL 2402-03	Category I	P
	Rated pulse voltage(kV)	EL 2402-04	No pulse voltage	N/A
	(1) Current-carrying parts of different polarity: cr;cl	EL 2402-05	Certified Driver used	P
	(2) Current-carrying parts and accessible parts: cr(mm);cl(mm).....	EL 2402-06	Certified Driver used	P
	(3) Parts becoming live due to breakdown of basic insulation and metal parts: cr (mm); cl (mm)..... :	EL 2402-07	No such type of construction	N/A
	(4) Outer surface of cable where it is clamped and metal parts: cr (mm); cl (mm)	EL 2402-08	No such type of construction	N/A
	(6) Current-carrying parts and supporting surface: cr(mm);cl (mm)..... :	EL 2402-09	Certified Driver used	P

*-Total number of Requirements to be observed/ inspected : 00
 Total No. of applicable Requirement : 00
 No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 10
 Total No. of applicable Tests : 07
 No. of tests for which the sample passed : 07

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:16 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
9 (7)	PROVISION FOR EARTHING			P
9 (7.2.1 + 7.2.3)	Accessible metal parts	EL 2403-00	Complies	P
	Metal parts in contact with supporting surface*	EL 2403-01	Complies	P
	Resistance < 0,5 Ω	EL 2403-02	0.1 Ω	P
	Self-tapping screws used*	EL 2403-03	No Self- tapping screws used	N/A
	Thread-forming screws*	EL 2403-04	No Such Screw	N/A
	Thread-forming screw used in a grove*	EL 2403-05	No Such Screw	N/A
	Earth makes contact first*	EL 2403-06	No detachable part	N/A
9 (7.2.2 + 7.2.3)	Earth continuity in joints, etc. *	EL 2403-07	Not an adjustable luminaire	N/A
9 (7.2.4)	Compliance with 4.7.3	EL 2403-08	See below	P
	Connections adequately locked	EL 2403-09	Complies	P
9 (7.2.5)	Earth terminal integral part of connector socket*	EL 2403-10	No connector socket	N/A
9 (7.2.6)	Earth terminal adjacent to mains terminals*	EL 2403-11	Complies	P
9 (7.2.7)	Electrolytic corrosion of the earth terminal*	EL 2403-12	Complies	P
9 (7.2.8)	Material of earth terminal*	EL 2403-13	Brass	P
	Contact surface bare metal*	EL 2403-14	Complies	P
9 (7.2.10)	Class II luminaire for looping-in*	EL 2403-15	Class I luminaires	N/A
	Double or reinforced insulation to functional earth*	EL 2403-16	See Above	N/A
9 (7.2.11)	Earthing cord coloured green-yellow*	EL 2403-17	Complies	P
	Length of earth conductor*	EL 2403-18	Complies	P

*-Total number of Requirements to be observed/ inspected : 15
 Total No. of applicable Requirement : 07
 No. of Requirements for which the sample passed : 07

Total number of tests to be conducted : 04
 Total No. of applicable Tests : 04
 No. of tests for which the sample passed : 04

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:17 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
10 (14)	SCREW TERMINALS			N/A
	Separately approved; component list.....:	EL 2404-00	No Screw terminal used	N/A
	Part of the luminaire.....:	EL 2404-01	See above	N/A

*-Total number of Requirements to be observed/ inspected : 00
 Total No. of applicable Requirement : 00
 No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 02
 Total No. of applicable Tests : 00
 No. of tests for which the sample passed : N/A

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:18 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
10 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS			N/A
	Separately approved; component list	EL 2404-02	No screw less terminals used	N/A
	Part of the luminaire	EL 2404-03	See above	N/A

*-Total number of Requirements to be observed/ inspected : 00
 Total No. of applicable Requirement : 00
 No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 02
 Total No. of applicable Tests : 00
 No. of tests for which the sample passed : N/A

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:19 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
11 (5)	EXTERNAL AND INTERNAL WIRING			P
11 (5.2)	Supply connection and external wiring			P
11 (5.2.1)	Means of connection*	EL 2405-00	Non detachable flexible cable used	P
11 (5.2.2)	Type of cable*	EL 2405-01	flexible cable used	P
	Nominal cross-sectional area (mm ²)*	EL 2405-02	3C x 1.0mm ²	P
	Cables equal to IS 694 and IS 9968 (Part 1) *	EL 2405-03	IS 9968 : PART 1 : 1988	P
	Luminaire provided with socket-outlet*	EL 2405-04	No socket outlet used	N/A
11 (5.2.3)	Type of attachment, X, Y or Z*	EL 2405-05	Type-Y attachment	P
11 (5.2.5)	Type Z not connected to screws	EL 2405-06	Type-Y attachment	N/A
11 (5.2.6)	Cable entries:			P
	- suitable for introduction	EL 2405-07	Complies	P
	- adequate degree of protection	EL 2405-08	Adequate protection provided	P
11 (5.2.7)	Cable entries through rigid material have rounded edges*	EL 2405-09	Complies	P
11 (5.2.8)	Insulating bushings:			N/A
	- suitably fixed*	EL 2405-10	Cable not passes through luminaires metal part	N/A
	- material in bushings*	EL 2405-11	See above	N/A
	- material not likely to deteriorate*	EL 2405-12	See above	N/A
	- tubes or guards made of insulating material*	EL 2405-12	See above	N/A
11 (5.2.9)	Locking of screwed bushings*	EL 2405-13	No such bushing used	N/A
11 (5.2.10)	Cord anchorage:			P
	- covering protected from abrasion	EL 2405-14	Complies	P
	- clear how to be effective	EL 2405-15	Complies	P
	- no mechanical or thermal stress	EL 2405-16	Complies	P
	- no tying of cables into knots etc.	EL 2405-17	Complies	P
	- insulating material or lining	EL 2405-18	Complies	P
11 (5.2.10.1)	Cord anchorage for type X attachment:			N/A
	a) at least one part fixed	EL 2405-19	Type-Y attachment	N/A
	b) types of cable	EL 2405-20	See above	N/A
	c) no damaging of the cable	EL 2405-21	See above	N/A
	d) whole cable can be mounted	EL 2405-22	See above	N/A
	e) no touching of clamping screws	EL 2405-23	See above	N/A
	f) metal screw not directly on cable	EL 2405-24	See above	N/A
	g) replacement without special tool	EL 2405-25	See above	N/A
	Glands not used as anchorage	EL 2405-26	No glands used	N/A
	Labyrinth type anchorages	EL 2405-27	No such construction	N/A
11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	EL 2405-28	Type Y attachment	P
11 (5.2.10.3)	Tests:			P
	- impossible to push cable; unsafe	EL 2405-29	Not possible to push cable inside	P
	- pull test: 25 times; pull (N)	EL 2405-30	Tested at 60N	P
	- torque test: torque (Nm)	EL 2405-31	0.25Nm	P
	- displacement ≤ 2 mm	EL 2405-32	Displacement observed = 0.87mm	P





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:20 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
	- no movement of conductors	EL 2405-33	Complies	P
	- no damage of cable or cord	EL 2405-34	Complies	P
11 (5.2.11)	External wiring passing into luminaire	EL 2405-35	Complies	P
11 (5.2.12)	Looping-in terminals*	EL 2405-36	No such type of construction	N/A
11 (5.2.13)	Wire ends not tinned*	EL 2405-37	No spring terminals	N/A
	Wire ends tinned: no cold flow*	EL 2405-38	See above	N/A
11 (5.2.14)	Mains plug same protection*	EL 2405-39	No plug used	N/A
	Class III luminaire plug*	EL 2405-40	See above	N/A
11 (5.2.15)	Colour coded red and black*	EL 2405-41	Not a fluorescent luminaire	N/A
11 (5.2.16)	Appliance inlets *	EL 2405-42	No appliance inlet	N/A
	Appliance couplers *	EL 2405-43	No appliance coupler	N/A
11 (5.3)	Internal wiring			P
11 (5.3.1)	Internal wiring of suitable size and type*	EL 2405-44	Suitable sizes of internal wiring used	P
	Through wiring			N/A
	- not delivered/ mounting instruction	EL 2405-45	No through wiring	N/A
	- factory assembled	EL 2405-46	See above	N/A
	- socket outlet loaded (A).....	EL 2405-47	See above	N/A
	- temperatures	EL 2405-48	See above	N/A
	Green - yellow for earth only	EL 2405-49	See above	N/A
11 (5.3.1.1)	Internal wiring connected directly to fixed wiring*			N/A
	Cross-sectional area (mm ²)	EL 2405-50	Internal wiring not directly connected to fixed wiring	N/A
	Insulation thickness	EL 2405-51	See above	N/A
	Extra insulation added where necessary	EL 2405-52	See above	N/A
11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device*			N/A
	Adequate cross-sectional area and insulation thickness	EL 2405-53	Internal wiring not directly connected to fixed wiring	N/A
11 (5.3.1.3)	Double or reinforced insulation for class II*	EL 2405-54	Class I	N/A
11 (5.3.1.4)	Conductors without insulation*	EL 2405-55	No such type of construction	N/A
11 (5.3.1.5)	SELV current-carrying parts*	EL 2405-56	No such type of construction	N/A
11 (5.3.1.6)	Insulation thickness other than PVC or rubber*	EL 2405-57	No such insulation	N/A
11 (5.3.2)	Sharp edges etc.*	EL 2405-58	No sharp edges	P
	No moving parts of switches etc.*	EL 2405-59	No switches used	N/A
	Joints, raising/lowering devices*	EL 2405-60	No such type of construction	N/A
	Telescopic tubes etc.*	EL 2405-61	No telescopic tube used	N/A
	No twisting over 360°	EL 2405-62	Complies	P
11 (5.3.3)	Insulating bushings:			N/A
	- suitable fixed*	EL 2405-63	No such type of construction	N/A
	- material in bushings*	EL 2405-64	See above	N/A
	- material not likely to deteriorate*	EL 2405-65	See above	N/A
	- cables with protective sheath*	EL 2405-66	No such construction	N/A
11 (5.3.4)	Joints and junctions effectively insulated*	EL 2405-67	Complies	P





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:21 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
11 (5.3.5)	Strain on internal wiring*	EL 2405-68	No internal wire come outside of luminaires	N/A
11 (5.3.6)	Wire carriers*	EL 2405-69	Not a adjustable luminaires	N/A
11 (5.3.7)	Wire ends not tinned*	EL 2405-70	Spring terminals is not used	N/A
	Wire ends tinned: no cold flow*	EL 2405-71	See above	N/A

*Total number of Requirements to be observed/ inspected : 37
Total No. of applicable Requirement : 09
No. of Requirements for which the sample passed : 09

Total number of tests to be conducted : 35
Total No. of applicable Tests : 16
No. of tests for which the sample passed : 16

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:22 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
12 (8)	PROTECTION AGAINST ELECTRIC SHOCK			P
12 (8.2.1)	Live parts not accessible*	EL 2406-00	Complies	P
	Protection shall be maintained after removal of all parts*	EL 2406-01	No removable part	N/A
	Supply conductors held by screw less terminals with push-button*	EL 2406-02	No such type of construction	N/A
	Tubular filament lamps having a cap/base at each end*	EL 2406-03	LED luminaires	N/A
	Insulating properties of lacquer, enamel, paper and similar materials*	EL 2406-04	No such type of insulation used	N/A
	Luminaires with ignitors	EL 2406-05	No ignitors used	N/A
12 (8.2.2)	Portable luminaire adjusted in most unfavourable position*	EL 2406-06	Fixed purpose luminaires	N/A
12 (8.2.3.a)	Class II luminaire:			N/A
	- basic insulated metal parts not accessible during starter or lamp replacement*	EL 2406-07	No replaceable part	N/A
	- glass protective shields not used as supplementary insulation*	EL 2406-08	No such type of construction	N/A
12 (8.2.3.b)	BC lamp holder of metal in class I luminaires shall be earthed*	EL 2406-09	No lamp holder	N/A
12 (8.2.4)	Portable luminaire have protection independent of supporting surface*	EL 2406-10	Fixed purpose luminaires	N/A
12 (8.2.5)	Compliance with the standard test finger or relevant probe	EL 2406-11	Complies	P
12 (8.2.6)	Covers reliably secured*	EL 2406-12	Complies	P
12 (8.2.7)	Discharging of capacitors $\geq 0,5 \mu\text{F}$	EL 2406-13	Certified Driver used	N/A
	Portable plug connected luminaire with capacitor	EL 2406-14	See above	N/A
	Other plug connected luminaire with capacitor	EL 2406-15	See above	N/A
	Discharge device on or within capacitor	EL 2406-16	See above	N/A
	Discharge device mounted separately	EL 2406-17	See above	N/A

*-Total number of Requirements to be observed/ inspected : 11
 Total No. of applicable Requirement : 02
 No. of Requirements for which the sample passed : 02

Total number of tests to be conducted : 07
 Total No. of applicable Tests : 01
 No. of tests for which the sample passed : 01

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:23 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
13 (12)	ENDURANCE TEST AND THERMAL TEST			P
13 (12.3)	Endurance test:	EL 2407-00	See below	P
	- mounting-position		Normal mounting position	P
	- test temperature (°C)		55°C(45°C+10°C)	P
	- total duration (h)		240hrs	P
	- supply voltage: Un factor; calculated voltage (V).....		264VAC(1.1*240VAC)	P
	- lamp used.....		LED Package used	P
13 (12.3.2)	After endurance test:	EL 2407-01	See below	P
	- no part unserviceable*		In compliance	P
	- plastic ES lampholder not deformed*		No lamp holder	N/A
	- luminaire not unsafe*		Complies	P
	- no damage to track system*		No track system	N/A
	- marking legible*		Marking is legible	P
	- no cracks, deformation etc.*		Complies	P
13 (12.4)	Thermal test (normal operation)	EL 2407-02	See Annex-2	P
13 (12.5)	Thermal test (abnormal operation)	EL 2407-03	Certified Driver used	N/A
13 (12.6)	Thermal test (failed lamp control gear condition):			N/A
13 (12.6.1)	Without Thermal Cut-Outs	EL 2407-04	No such lamp control gear provided	N/A
	- case of abnormal conditions.....		See above	N/A
	- electronic lamp control gear		See above	N/A
	- measured winding temperature (°C): at 1,1 Un		See above	N/A
	- measured mounting surface temperature (°C) at 1,1 Un.....		See above	N/A
	- calculated mounting surface temperature (°C)		See above	N/A
	- track-mounted luminaires		No such type of construction	N/A
13 (12.6.2)	Temperature sensing control	EL 2407-05	No such type of construction	N/A
	- case of abnormal conditions.....		See above	N/A
	- thermal link		See above	N/A
	- manual reset cut-out		See above	N/A
	- auto reset cut-out		See above	N/A
	- measured mounting surface temperature (°C)		See above	N/A
	- track-mounted luminaires		See above	N/A
13 (12.7)	Thermal test (fault conditions in lamp control gear or electronic devices in plastic luminaires):		See Below	N/A
13 (12.7.1)	Luminaire without temperature sensing control	EL 2407-06	No such type of construction	N/A
	- case of abnormal conditions.....		See above	N/A
	- measured winding temperature (°C): at 1,1 Un.....		See above	N/A





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:24 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un.....		See above	N/A
	- calculated temperature of fixing point/exposed part (°C).....		See above	N/A
13 (12.7.2)	Luminaire with temperature sensing control	EL 2407-07	No such temperature sensing control provided	N/A
	- thermal link.....		Yes [] No [v]	N/A
	- manual reset cut-out.....		Yes [] No [v]	N/A
	- auto reset cut-out		Yes [] No [v]	N/A
	- case of abnormal conditions.....		See above	N/A
	- highest measured temperature of fixing point/ exposed part (°C):.....		See above	N/A

*-Total number of Requirements to be observed/ inspected : 00
 Total No. of applicable Requirement : 00
 No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 08
 Total No. of applicable Tests : 03
 No. of tests for which the sample passed : 03

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:25 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
14 (9)	RESISTANCE TO DUST AND MOISTURE			P
14 (-)	If IP > IP 20 the order of tests as specified in clause 9.2	EL 2408-00	IP65	P
14 (9.2)	Tests for ingress of dust, solid objects and moisture:	EL 2408-01	See below	P
	- classification according to IP		IP65	P
	- mounting position during test		Normal mounting position	P
	- fixing screws tightened; torque (Nm)		Complies	P
	- tests according to clauses		9.2.2, 9.2.6	P
	- electric strength test afterwards		Complies	P
	a) no deposit in dust-proof luminaire	EL 2408-02	No such type of construction	N/A
	b) no talcum in dust-tight luminaire	EL 2408-03	Complies	P
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard	EL 2408-04	Complies	P
	d) i) For luminaires without drain holes - no water entry	EL 2408-05	Complies	P
	d) ii) For luminaires with drain holes - no hazardous water entry	EL 2408-06	No such type of construction	N/A
	e) no water in watertight luminaire	EL 2408-07	No such type of construction	N/A
	f) no contact with live parts (IP 2X)	EL 2408-08	No such type of construction	N/A
	g) no entry into enclosure (IP 3X and IP 4X)	EL 2408-09	No such type of construction	N/A
	h) no contact with live parts (IP3X and IP4X)	EL 2408-10	No such type of construction	N/A
14 (9.3)	Humidity test 48 h	EL 2408-11	Humidity test carried out at 27°C ,93% RH for 48 h	P

*-Total number of Requirements to be observed/ inspected : 00
 Total No. of applicable Requirement : 00
 No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 12
 Total No. of applicable Tests : 06
 No. of tests for which the sample passed : 06

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:26 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
15 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH			P
15 (10.2.1)	Insulation resistance test	EL 2409-00	Complies	P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø		Metal foil wrapped on the cable	P
	Insulation resistance		See below	P
	SELV	EL 2409-01	See below	N/A
	- between current-carrying parts of different polarity		No SELV circuit	N/A
	- between current-carrying parts and mounting surface		See above	N/A
	- between current-carrying parts and metal parts of the luminaire		See above	N/A
	Other than SELV	EL 2409-02	See below	P
	- between live parts of different polarity		Feasible only with action of switch	N/A
	- between live parts and mounting surface(limit≥4MΩ).....		>1GΩ	P
	- between live parts and metal parts(limit≥4MΩ)		>1GΩ	P
	- between live parts of different polarity through action of a switch		No switch provided	N/A
15 (10.2.2)	Electric strength test	EL 2409-03	See below	P
	Dummy lamp		No dummy lamp	N/A
	Luminaires with ignitors after 24 h test		No ignitors used	N/A
	Luminaires with manual ignitors		See above	N/A
	Test voltage (V)		See below	P
	SELV	EL 2409-04	No SELV circuit	N/A
	- between current-carrying parts of different polarity		See above	N/A
	- between current-carrying parts and mounting surface		See above	N/A
	- between current-carrying parts and metal parts of the luminaire		See above	N/A
	Other than SELV	EL 2409-05	See below	P
	- between live parts of different polarity		Feasible only with action of switch	N/A
	- between live parts and mounting surface		Test conducted at 1480V. No flashover or breakdown observed.	P
	- between live parts and metal parts.....		Test conducted at 1480V. No flashover or breakdown observed.	P
	- between live parts of different polarity through action of a switch:		No switch provided	N/A
15 (10.3)	Touch current or protective conductor current (mA)	EL 2409-06	0.121mA Limit: - 1.0mA	P





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TC-9825

TEST REPORT

Report No.: SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.: 27 of 35
Dated: 28/10/2024	ULR- TC982524000002239F	

*-Total number of Requirements to be observed/ inspected : 00
 Total No. of applicable Requirement : 00
 No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 07
 Total No. of applicable Tests : 05
 No. of tests for which the sample passed : 05

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:28 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
16 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING			N/A
16 (13.2.1)	Ball-pressure test	EL 2410-00	See below	N/A
	- part tested; temperature (°C): Allow dia of impression		No such Material Used	N/A
16 (13.3.1)	Needle-flame test (10 s).....	EL 2410-01	Certified Driver Used	N/A
	- part tested :		See above	N/A
	- part tested		See above	N/A
16 (13.3.2)	Glow-wiretest(650°C).....	EL 2410-02	No such Material Used	N/A
	- part tested :		See above	N/A
	- part tested		See above	N/A
16 (13.4.1)	Tracking test	EL 2410-03	Certified driver used	N/A
	- part tested		See above	N/A

*-Total number of Requirements to be observed/ inspected : 00
 Total No. of applicable Requirement : 00
 No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 04
 Total No. of applicable Tests : 00
 No. of tests for which the sample passed : N/A

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:29 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
17	PHOTOMETRIC TESTS			N/A
	The photometric performance determined by the test method given in IS 13383 (Part 1)	EL 2411-00		N/A
	The general guidance regarding the photometric data to be provided by the manufacturers of luminaires is given in Annex A	EL 2411-01		N/A

*-Total number of Requirements to be observed/ inspected : 00
Total No. of applicable Requirement : 00
No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 02
Total No. of applicable Tests : 00
No. of tests for which the sample passed : N/A

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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:30 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

ANNEX 1: COMPONENTS						P
object/part No.	CODE	manufacturer/ trademark	type/model	Technical data	standard	mark(s) of conformity ¹
Metallic Enclosure	C	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED	Metal	Min. Thickness 2.48mm, 75°C	IS 10322 (Part 5/Sec 1): 2012	Test Within Appliance
LED PCB	B	EPITOME COMPONENTS LTD	EP-1A	V-1, 130°C	UL 796 (No equivalent IEC standard)	UL E212855
LED Package	B	Shenzhen Diranda Optoelectronics Co.,Ltd	SMD3030	DC 6.5V	EN 62471 :2008	Ref. Report:- AGC0756117 0202SS01
Internal Wire	B	VICTOR PUSHIN CORDS PVT LTD	PVC	1100V, 0.5 mm ²	IS 694: 2010	BIS CML: - 8663997
Supply Cable	B	U.K.B ELECTRONICS PVT LTD	Rubber Cable	1100V, 3C X 1.00 mm ²	IS 9968 : PART 1 : 1988	BIS CML: - 8700008917
Driver used for Model: HW60W (Lead Model), HW48W	B	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED	HW0060W	Input: 100-240VAC, 50/60Hz, 0.78A, 70W, P.F:0.9 Output: 45-60VDC, 1.0A, 60W	IS 15885 (PART 2/SEC 13): 2012	BIS R-82001201
Driver used for Model: HW36W, HW30W	B	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED	HW3040W	Input: 100-240VAC, 50/60Hz, 0.55A, 50W, P.F:0.9 Output: 27-40VDC, 1.0A, 30-40W	IS 15885 (PART 2/SEC 13): 2012	BIS R-82001201
Driver used for Model: HW24W, HW20W, HW18W	B	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED	HW1824W	Input: 100-240VAC, 50/60Hz, 0.39A, 35W, P.F:0.9 Output: 27-40VDC, 0.6A, 18-24W	IS 15885 (PART 2/SEC 13): 2012	BIS R-82001201
Driver used for Model: HW12W	B	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED	HW1215W	Input: 100-240VAC, 50/60Hz, 0.28A, 25W, P.F:0.9 Output: 27-40VDC, 0.3A, 12-15W	IS 15885 (PART 2/SEC 13): 2012	BIS R-82001201
Driver used for Model: HW10W, HW09W	B	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED	HW0610W	Input: 100-240VAC, 50/60Hz, 0.22A, 20W, P.F:0.9 Output: 12-24VDC, 0.3A, 6-10W	IS 15885 (PART 2/SEC 13): 2012	BIS R-82001201

Supplementary information:

1. Evidences provided by the manufacturer for the listed components are verified by us and the evidences are conforming to the requirements of the relevant standard.

The codes above have the following meaning:

- A - The component is replaceable with another one, also certified, with equivalent characteristics
- B - The component is replaceable if authorised by the test house
- C - Integrated component tested together with the appliance
- D - Alternative component





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:31 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

ANNEX 2	TABLE: Temperature measurements, thermal tests of Section 12				Verdict	
Type reference	:	LED HIGHBAY LIGHT (Fixed general purpose LED luminaire)		P		
Lamp used	:	LED Package used		P		
Lamp control gear used	:	Certified Driver used		P		
Mounting position of luminaire	:	Normal mounting Position		P		
Supply wattage (W)	:	63.69W		P		
Supply current (A)	:	0.27A		P		
Calculated power factor	:	0.983		P		
Table: measured temperatures corrected for		ta = 45°C		P		
- abnormal operating mode	:	See below		N/A		
- test 1: rated voltage	:	240VAC		P		
- test 2: 1.06 times rated voltage or 1,05 times rated wattage	:	254.4VAC (1.06 * 240VAC)		P		
- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	:	Certified Driver used		N/A		
- test 4: 1.1 times rated voltage or 1,05 times rated wattage :	:	Certified Driver used		N/A		
Temperature measurements, (°C)						
Part	Clause 12.4 - normal				Clause 12.5 - abnormal	
	test 1	test 2	test 3	limit	test 4	Limit
Metallic Enclosure	58°C	61°C	-	75°C	-	-
Internal wire	59°C	63°C	-	90°C	-	-
Supply Cable	52°C	53°C	-	90°C	-	-
LED PCB	72°C	76°C	-	130°C	-	-
LED Driver	66°C	68°C	-	75°C	-	-
Supplementary information: Nil						





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:32 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

ANNEX 3.1	Screw terminals (part of the luminaire) Manufacturer:	Verdict
(14)	SCREW TERMINALS	N/A
(14.2)	Type of terminal : Rated current (A) :	No Screw Terminal used See above N/A
(14.3.2.1)	One or more conductors	See above N/A
(14.3.2.2)	Special preparation	See above N/A
(14.3.2.3)	Terminal size Cross-sectional area (mm ²) :	See above See above N/A
(14.3.3)	Conductor space (mm) :	See above N/A
(14.4)	Mechanical tests	N/A
(14.4.1)	Minimum distance	See above N/A
(14.4.2)	Cannot slip out	See above N/A
(14.4.3)	Special preparation	See above N/A
(14.4.4)	Nominal diameter of thread (metric ISO thread) : External wiring No soft metal	See above See above N/A
(14.4.5)	Corrosion	See above N/A
(14.4.6)	Nominal diameter of thread (mm) : Torque (Nm) :	See above See above N/A
(14.4.7)	Between metal surfaces Lug terminal Mantle terminal	See above See above See above N/A
(14.4.8)	Pull test; pull (N) : Without undue damage	See above See above N/A





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TC-9825

TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:33 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

ANNEX 4	Screwless terminals (part of the luminaire)	Verdict
(15)	SCREWLESS TERMINALS	N/A
(15.2)	Type of terminal : No screwless terminal used	N/A
	Rated current (A) :	See above N/A
(15.3.1)	Material	See above N/A
(15.3.2)	Clamping	See above N/A
(15.3.3)	Stop	See above N/A
(15.3.4)	Unprepared conductors	See above N/A
(15.3.5)	Pressure on insulating material	See above N/A
(15.3.6)	Clear connection method	See above N/A
(15.3.7)	Clamping independently	See above N/A
(15.3.8)	Fixed in position	See above N/A
(15.3.10)	Conductor size	See above N/A
	Type of conductor	See above N/A
(15.5.1)	Terminals internal wiring	See above N/A
(15.5.1.1)	Pull test spring-type terminals (4 N, 4 samples) :	See above N/A
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples) :	See above N/A
	Insertion force not exceeding 50 N	See above N/A
(15.5.2)	Permanent connections: pull-off test (20 N)	See above N/A
(15.6)	Electrical tests	N/A
	Voltage drop (mV) after 1 h (4 samples) :	See above N/A
	Voltage drop of two inseparable joints	See above N/A
	Number of cycles :	See above N/A
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples) :	See above N/A
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples) :	See above N/A
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples) :	See above N/A
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples):	See above N/A
(15.7)	Terminals external wiring	See above N/A
	Terminal size and rating	See above N/A
(15.8.1)	Pull test spring-type terminals or welded connections (4 samples); pull(N) :	See above N/A
	Pull test pin or tab terminals (4 samples); pull (N) :	See above N/A
(15.9)	Contact resistance test	N/A
	Voltage drop (mV) after 1 h	N/A





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TC-9825

TEST REPORT

Report No.: SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.: 34 of 35
Dated: 28/10/2024	ULR- TC982524000002239F	

Terminal	1	2	3	4	5	6	7	8	9	10
Voltage drop (mV)										
Voltage drop of two inseparable joints										
Voltage drop after 10th alt. 25th cycle										N/A
Max. allowed voltage drop (mV) :										-
Terminal	1	2	3	4	5	6	7	8	9	10
Voltage drop (mV)										
Voltage drop after 50th alt. 100th cycle										N/A
Max. allowed voltage drop (mV) :										—
terminal	1	2	3	4	5	6	7	8	9	10
Voltage drop (mV)										
Continued ageing: voltage drop after 10th alt. 25th cycle										N/A
Max. allowed voltage drop (mV) :										—
Terminal	1	2	3	4	5	6	7	8	9	10
Voltage drop (mV)										
Continued ageing: voltage drop after 50th alt. 100th cycle										N/A
Max. allowed voltage drop (mV) :										—
Terminal	1	2	3	4	5	6	7	8	9	10
Voltage drop (mV)										



TEST REPORT

Report No.:SC24EPI13670_1	IS 10322 (Part 5/Sec 1): 2012	Page No.:35 of 35
Dated:28/10/2024	ULR- TC982524000002239F	

ATTACHMENT:- 1
PHOTOGRAPHS:



****END OF TEST REPORT****



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TEST REPORT

TC-9825
Page 1 of 7

TEST REPORT NO:	BSL/TR/ET/24J19002	DATE OF ISSUE:	23/10/2024
ULR NUMBER:	TC982524000002171F		

NAME OF LABORATORY	BLUESKY LAB LLP
ADDRESS OF LABORATORY	1st, 2nd, 3rd Floor, Plot no 62, 63 Ganga Enclave, BehtaHajipur, Loni Border, Main Delhi Saharanpur Road, Near Johri Enclave Metro Station, Ghaziabad, Uttar Pradesh-201102
NAME OF CUSTOMER	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
CUSTOMER ADDRESS	KHASRA N. 142/2, GARIPLIYA, GARIPLIYA, 142/2, TEHSIL SANWER, INDORE, 452001 MADHYA PRADESH, MADHYA PRADESH, India-452001

TEST ITEM DESCRIPTION			
PRODUCT NAME	LED STREET LIGHT	SAMPLE CONDITION	Good
DATE OF RECEIPT	19/10/2024	NO. OF SAMPLE	01
RECEIPT NUMBER	BSL/ET/24J19002	SERIAL NO.	Null
MODEL	HWSL72W	TRADE MARK	
RATINGS / SPECIFICATIONS	240VAC, 50/60Hz, 72W		

TEST SPECIFICATION			
TEST METHOD/ STANDARD	IES LM-79-08/IS 16106:2012		
TEST START DATE	21/10/2024	TEST END DATE	21/10/2024
ENVIRONMENTAL CONDITION	(25±1)°C/ <70% RH	TEST REPORT FORMAT	BSL/F7.8/TRF/LM79-08
OTHER ASPECTS	This report consists of 07 pages.		

CONCLUSION	
TEST RESULT	The test results Conforms/Did not conform to the requirement of the standard/test protocol based on the obtained test values/results mentioned in the test report.
REMARKS	<ul style="list-style-type: none"> - Compliance statement in the report has been made considering decision rule as inherent in its test standard and latest version of ILAC G-8. - The test result presented in this test report relate only to the object tested. - This report shall not be re-produce except in full without the written approval of the issuing testing laboratory. -The laboratory is not responsible for all the information provided by the customer.

Issued By:	Approved By:/Reviewed By:	Issued By:
Testing Engineer: GOKUL SINGH BHANDARI DATE: 23/10/2024	Technical Manager: Kapil Kumar Dhaka DATE: 23/10/2024	C.E.O. Kapil Kumar Dhaka DATE: 23/10/2024





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TC-9825

TEST REPORT

Report No.: BSL/TR/ET/24J19002

Date: 23/10/2024

IES LM-79-08/IS 16106:2012

ULR: TC982524000002171F

Table – List of Attachments

Attachment No.	Attachment Description	Page No.
Attachment No. 1	Luminous Intensity Distribution Curve	06
Attachment No. 2	Spectrum Test Result	07

Possible test case verdicts:

- test case does not apply to the test object : N/A
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement : F (Fail)

Condition of samples.....: GOOD

Testing

Date of receipt of test item : 19/10/2024

Date(s) of performance of tests..... : 21/10/2024

Laboratory conditions

Ambient Temperature..... : (25±1)°C

Ambient Humidity : <70%RH



BSL/F7.8/TRF/LM79-08





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TEST REPORT

TC-9825

Report No.: BSL/TR/ET/24J19002

Date: 23/10/2024

ULR: TC982524000002171F

IES LM-79-08/IS 16106:2012

Details of Test Equipment Used

Equipment Calibration status:

S. No.	Equipment Detail	Model	Equipment ID	Valid up to	Calibrated By
1.	Goniophotometer	LSG-5000	BSL-EQ-198	20/09/2025	In House Calibration with Standard lamp
2.	Measured Standard Lamp (150W, Tungsten halogen lamp, Omni-directional)	SLS-150W	BSL-EQ-207	15/11/2024	Shanghai Institute of Quality Inspection and Technical Research
3.	Digital Power Meter	LS2010	BSL-EQ-194	08/02/2025	PV Calibration Laboratory Pvt. Ltd.
4.	Digital AC Power Source	LSP-1KVARs	BSL-EQ-196	08/02/2025	PV Calibration Laboratory Pvt. Ltd.



BSL/F7.8/TRF/LM79-08





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TC-9825

TEST REPORT

Report No.: BSL/TR/ET/24J19002

Date: 23/10/2024

ULR: TC982524000002171F

IES LM-79-08/IS 16106:2012

Details of Tests Performed and Result

S. No.	Test Parameter	IES No. and Cl. No.
1.	Input RMS AC Voltage	IES LM79-08/Cl. No.: 8.0
2.	Input RMS AC Current	IES LM79-08/Cl. No.: 8.0
3.	Input AC Power	IES LM79-08/Cl. No.: 8.0
4.	Power factor	As per customer's request
5.	Frequency	IES LM79-08/Cl. No.: 8.0
6.	Total Luminous Flux	IES LM79-08/Cl. No.: 9.0
7.	Luminous Intensity Distribution	IES LM79-08/Cl. No.: 10.0
8.	Luminous Efficacy	IES LM79-08/Cl. No.: 11.0
9.	Chromaticity Coordinates	IES LM79-08/Cl. No.: 12.0
10.	Correlated Colour Temperature	IES LM79-08/Cl. No.: 12.0
11.	Colour Rendering Index	IES LM79-08/Cl. No.: 12.0



BSL/F7.8/TRF/LM79-08





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TEST REPORT

Report No.: BSL/TR/ET/24J19002

Date: 23/10/2024

ULR: TC982524000002171F

IES LM-79-08/IS 16106:2012

Discipline: Photometry

Group: Luminaires

Cl. No.	Test / Requirement name	Test result/ observation
8.0	Electrical Instrumentation The Electrical Characteristics measured for AC Powered SSL Products are	
	1. Input RMS AC Voltage	240.00 V
	2. Input RMS AC Current	0.9274 A
	3. Input AC Power	72.1 W
	4. Power Factor	0.9840
	5. Frequency	50.0Hz
9.0	Total Luminous Flux	8017.52 lm
10.0	Luminous Intensity Distribution	See Attachment No. 1
11.0	Luminous Efficacy	111.12 lm/W
12.0	Color Characteristics (Centre) (Average)	
	1. Chromaticity Coordinates	x=0.3166 y=0.3347
	2. Correlated Color Temperature (Average)	6266K
	3. Color Rendering Index (Average)	Ra=75

Test Method (Goniophotometer):

1. The sample was tested according to the IES LM-79-2008.
2. The condition of the sample tested was new. Stabilization time before testing was 120 minutes total Measurement time is 30 minutes.
3. Orientation (burning position) of SSL product during testing was its normal burning position i.e. at zero degree inclination to horizontal.
4. Electrical measurements were obtained with a LISUN LS2010 digital power meter.
5. Photometric parameters (**Luminous Intensity Distribution**) are obtained using C-type Goniophotometer and software.
6. The ambient temperature was maintained at $(25 \pm 1)^\circ \text{C}$ during testing.
7. The test distance is more than 5 times the maximum light emitting area.
8. The sample was operated at 110Vac. It was stabilized before measurement. No deviation from standard operating procedures.

BSL/F7.8/TRF/LM79-08





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TEST REPORT

Report No.: BSL/TR/ET/24J19002

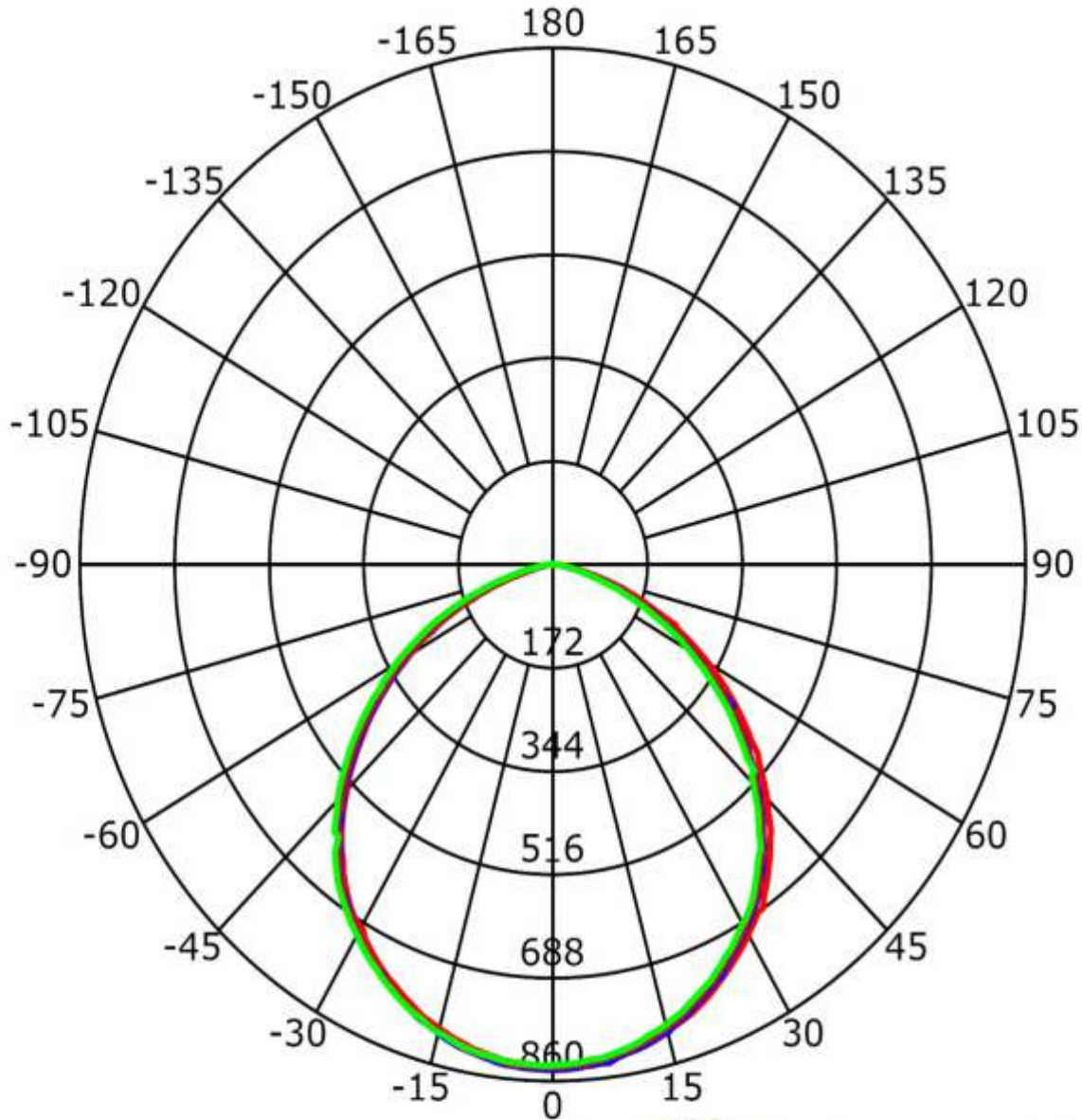
Date: 23/10/2024

ULR: TC982524000002171F

IES LM-79-08/IS 16106:2012

Attachment No- 1:

Luminous Intensity Distribution Curve



BSL/F7.8/TRF/LM79-08





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TEST REPORT

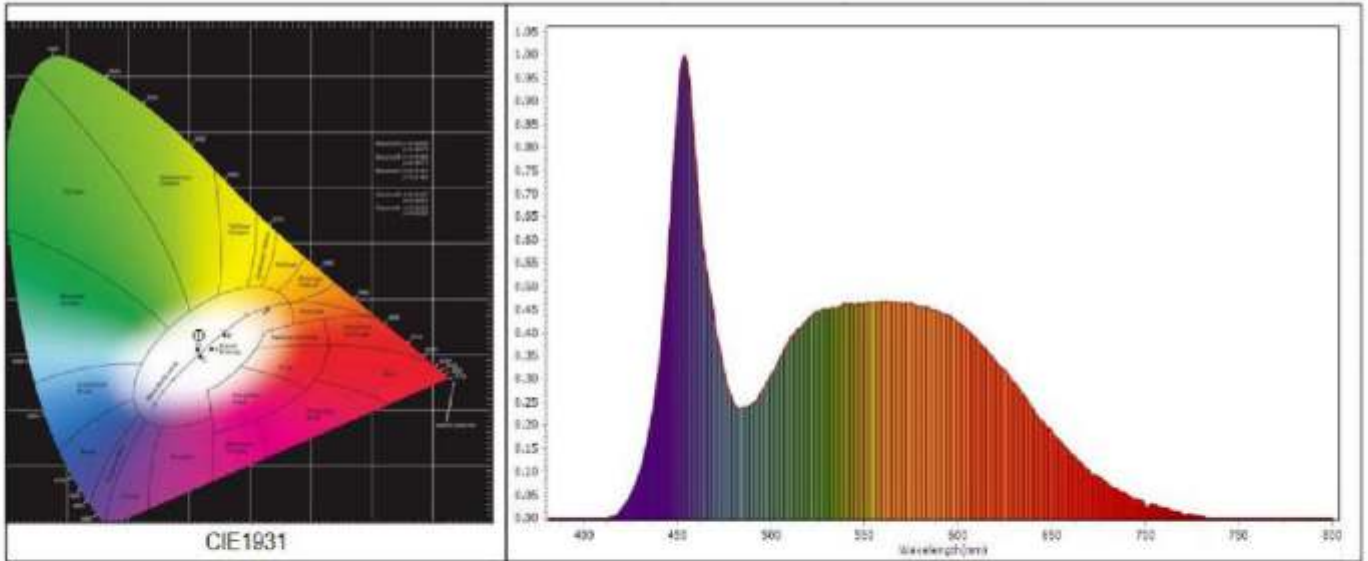
Report No.: BSL/TR/ET/24J19002

Date: 23/10/2024

ULR: TC982524000002171F

IES LM-79-08/IS 16106:2012

Attachment No. 2: Spectral Power Distribution



*****END OF TEST REPORT*****

BSL/F7.8/TRF/LM79-08





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SALES OFFICE (CORRESPONDENCE ADDRESS) :

76/78, NARAYAN DHURU STREET, SHOP NO. 76-A, MUMBAI - 400 003.

TELEFAX : 022 - 2344 3645 • EMAIL : diamondglass123@yahoo.co.in

REGISTERED OFFICE & WORKS :

GALA NO. 21, ARSIWALA COMPOUND, 119, ST. MARY'S & NESBIT ROAD,
OPP. MAZGAON COURT, MAZGAON, MUMBAI - 400 010. • PHONE : 2372 2352

REF. NO. :

DATE :

IK 08 TEST REPORT

TO,

DATE: 16/10/2024

DAY LITE INDUSTRIES P LTD

VASAI- 401208

GLASS SIZE : 135MM X 111MM X 4MM THK (20WATT SD MODEL NO 176) – 5000NOS

In. Ref. : NIL dt 2024-25

Test Ref. DL/Glass/058

Specification followed : IEC 62262- IK08

Sr. No.	IS. Clause	Requirement as per specification	Observation
1	IK08	The test remark and the matters needing attention: --- The sample is placed on the ground, Begin the impact test from a height of 300 mm using the drop ball 1.7kg, The energy of impact test specimens for 3J; --- The impact of evenly distributed in the sample, in the left, right, and each point of a shock; --- Check the sample after the test	After the test did not show any damage

CHECKED BY:-



DIAMOND GLASS WORKS



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TC-9825

TEST REPORT

Page 1 of 7

TEST REPORT NO:	BSL/TR/ET/24I13001	DATE OF ISSUE:	17/09/2024
ULR NUMBER:	TC982524000001904F		

NAME OF LABORATORY	BLUESKY LAB LLP
ADDRESS OF LABORATORY	1st, 2nd, 3rd Floor, Plot no 62, 63 Ganga Enclave, Behta Hajipur, Loni Border, Main Delhi Saharanpur Road, Near Johri Enclave Metro Station, Ghaziabad, Uttar Pradesh-201102
NAME OF CUSTOMER	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
CUSTOMER ADDRESS	KHASRA NO.142/2, GARIPLIYA, GARIPLIYA, 142/2, TEHSIL SANWER, INDORE ,452001 MADHYA PRADESH, MADHYA PRADESH, India - 452001

TEST ITEM DESCRIPTION

PRODUCT NAME	110W Street light	SAMPLE CONDITION	Good
DATE OF RECEIPT	13/09/2024	NO. OF SAMPLE	01
RECEIPT NUMBER	BSL/ET/24I13001	SERIAL NO.	Nil
MODEL	HIWAY-DEL-SL-110W-02	TRADE MARK	
RATINGS / SPECIFICATIONS	240VAC, 50Hz, 110W		

TEST SPECIFICATION

TEST METHOD/ STANDARD	IES LM-79-08/IS 16106:2012		
TEST START DATE	16/09/2024	TEST END DATE	16/09/2024
ENVIRONMENTAL CONDITION	(25±1)°C / <70%RH	TEST REPORT FORMAT	BSL/F7.8/TRF/LM79-08
OTHER ASPECTS	This report consists of 07 pages.		

CONCLUSION

TEST RESULT	The test results Conforms/Did not conform to the requirement of the standard/test protocol based on the obtained test values/results mentioned in the test report.
REMARKS	<ul style="list-style-type: none"> - Compliance statement in the report has been made considering decision rule as inherent in its test standard and latest version of ILAC G-8. - The test result presented in this test report relate only to the object tested. - This report shall not be re-produce except in full without the written approval of the issuing testing laboratory.

Tested By:	Approved By:/ Reviewed By:	Issued By:
Sr. Testing Engineer: Rakesh Kundu	Technical Manager: Kapil Kumar Dhaka	C.E.O.: Kapil Kumar Dhaka
DATE: 17/09/2024	DATE: 17/09/2024	DATE: 17/09/2024





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TEST REPORT

Report No.: BSL/TR/ET/24113001
Dated: 17/09/2024
ULR: TC982524000001904F

IES LM-79-08/IS 16106:2012

Table – List of Attachments

Attachment No.	Attachment Description	Page No.
Attachment No. 1	Luminous Intensity Distribution Curve	06
Attachment No. 2	Spectrum Test Result	07

Possible test case verdicts:

- test case does not apply to the test object.....: N/A
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement: F (Fail)

Condition of samples.....: GOOD

Testing.....:

Date of receipt of test item.....: 13/09/2024

Date(s) of performance of tests.....: 16/09/2024

Laboratory conditions.....:

Ambient Temperature.....: (25±1)°C

Ambient Humidity.....: <70%RH





BlueSky Lab LLP

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Near Johri Enclave Metro Station, Ghaziabad
Uttar Pradesh - 201102
Mob: +918595176179 , Ph: 011-71862260
Email: Info@blueskylab.in



TEST REPORT

Report No.: BSL/TR/ET/24I13001

Dated: 17/09/2024

ULR: TC982524000001904F

IES LM-79-08/IS 16106:2012

Details of Test Equipment Used

Equipment Calibration status:

S. No.	Equipment Detail	Model	Equipment ID	Valid up to	Calibrated By
1.	Goniophotometer	LSG-5000	BSL-EQ-198	20/09/2024	In House Calibration with Standard lamp
2.	Measured Standard Lamp (150W, Tungsten halogen lamp, Omni-directional)	SLS-150W	BSL-EQ-207	15/11/2024	Shanghai Institute of Quality Inspection and Technical Research
3.	Digital Power Meter	LS2010	BSL-EQ-194	08/02/2025	PV Calibration Laboratory Pvt. Ltd.
4.	Digital AC Power Source	LSP-1KVARs	BSL-EQ-196	08/02/2025	PV Calibration Laboratory Pvt. Ltd.





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TEST REPORT

Report No.: BSL/TR/ET/24113001

Dated: 17/09/2024

ULR: TC982524000001904F

IES LM-79-08/IS 16106:2012

Details of Tests Performed and Result

S. No.	Test Parameter	IES No. and Cl. No.
1.	Input RMS AC Voltage	IES LM79-08/Cl. No.: 8.0
2.	Input RMS AC Current	IES LM79-08/Cl. No.: 8.0
3.	Input AC Power	IES LM79-08/Cl. No.: 8.0
4.	Power factor	As per customer's request
5.	Frequency	IES LM79-08/Cl. No.: 8.0
6.	Total Luminous Flux	IES LM79-08/Cl. No.: 9.0
7.	Luminous Intensity Distribution	IES LM79-08/Cl. No.: 10.0
8.	Luminous Efficacy	IES LM79-08/Cl. No.: 11.0
9.	Chromaticity Coordinates	IES LM79-08/Cl. No.: 12.0
10.	Correlated Colour Temperature	IES LM79-08/Cl. No.: 12.0
11.	Colour Rendering Index	IES LM79-08/Cl. No.: 12.0





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Email: Info@blueskylab.in



TEST REPORT

Report No.: BSL/TR/ET/24/13001

Dated: 17/09/2024

ULR: TC982524000001904F

IES LM-79-08/IS 16106:2012

Discipline: Photometry

Group: Luminaires

Cl. No.	Test / Requirement name	Test result/ observation
8.0	Electrical Instrumentation The Electrical Characteristics measured for AC Powered SSL Products are	
	1. Input RMS AC Voltage	240.00 V
	2. Input RMS AC Current	0.4637 A
	3. Input AC Power	109.84 W
	4. Power Factor	0.9870
	5. Frequency	50.0Hz
9.0	Total Luminous Flux	12838.10 lm
10.0	Luminous Intensity Distribution	See Attachment No. 1
11.0	Luminous Efficacy	116.88 lm/W
12.0	Color Characteristics (Centre) (Average)	
	1. Chromaticity Coordinates	x=0.3136 y=0.3337
	2. Correlated Color Temperature (Average)	6428K
	3. Color Rendering Index (Average)	Ra=71.5

Test Method (Goniophotometer):

1. The sample was tested according to the IES LM-79-2008.
2. The condition of the sample tested was new. Stabilization time before testing was 120 minutes total. Measurement time is 30 minutes.
3. Orientation (burning position) of SSL product during testing was its normal burning position i.e. at zero degree inclination to horizontal.
4. Electrical measurements were obtained with a LISUN LS2010 digital power meter.
5. Photometric parameters (**Luminous Intensity Distribution**) are obtained using C-type Goniophotometer and software.
6. The ambient temperature was maintained at $(25 \pm 1)^\circ \text{C}$ during testing.
7. The test distance is more than 5 times the maximum light emitting area.
8. The sample was operated at 240Vac. It was stabilized before measurement. No deviation from standard operating procedures.





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TEST REPORT

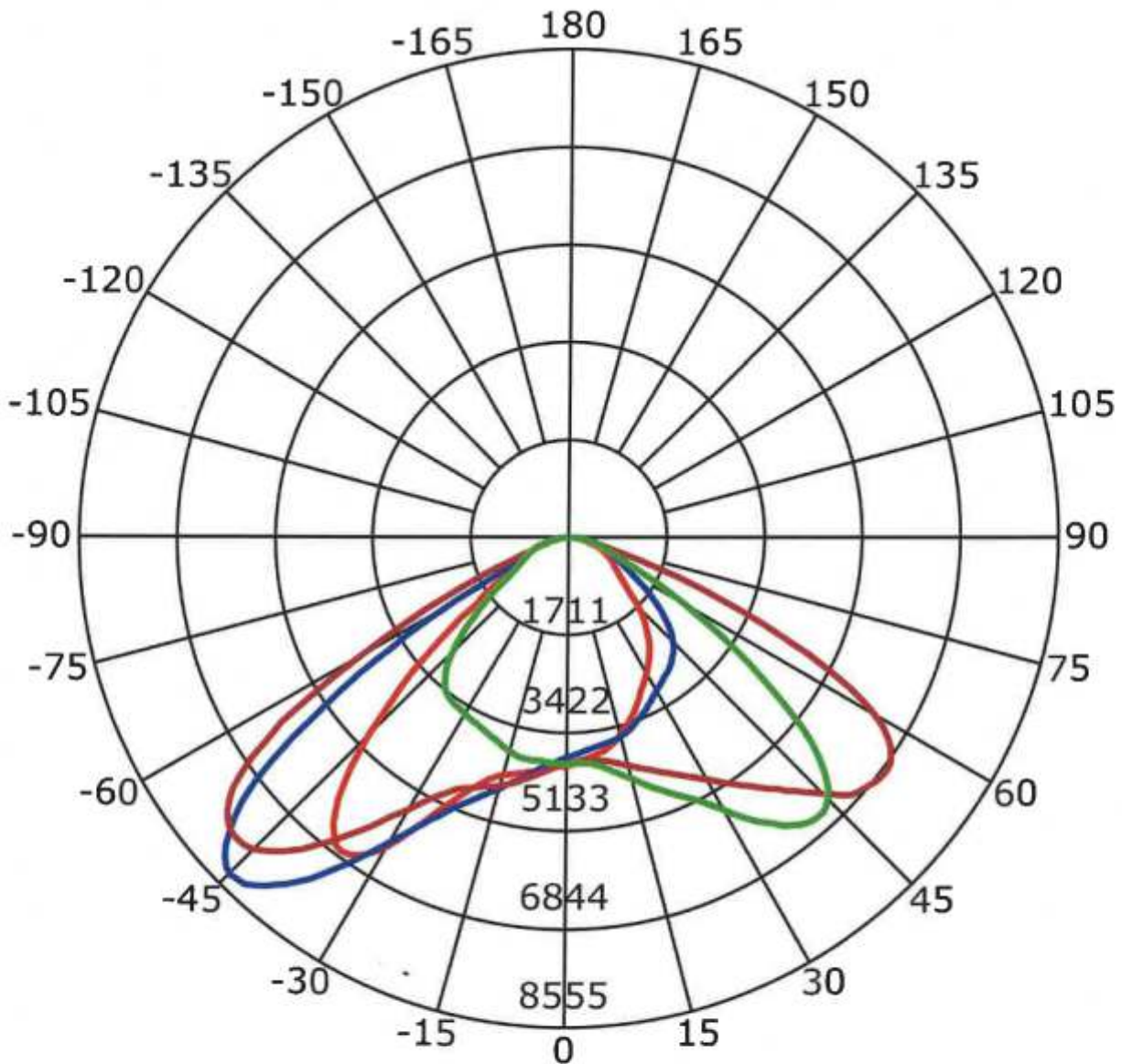
Report No.: BSL/TR/ET/24113001

Dated: 17/09/2024

ULR: TC982524000001904F

IES LM-79-08/IS 16106:2012

Attachment No- 1: Luminous Intensity Distribution Curve





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Email: Info@blueskylab.in



TEST REPORT

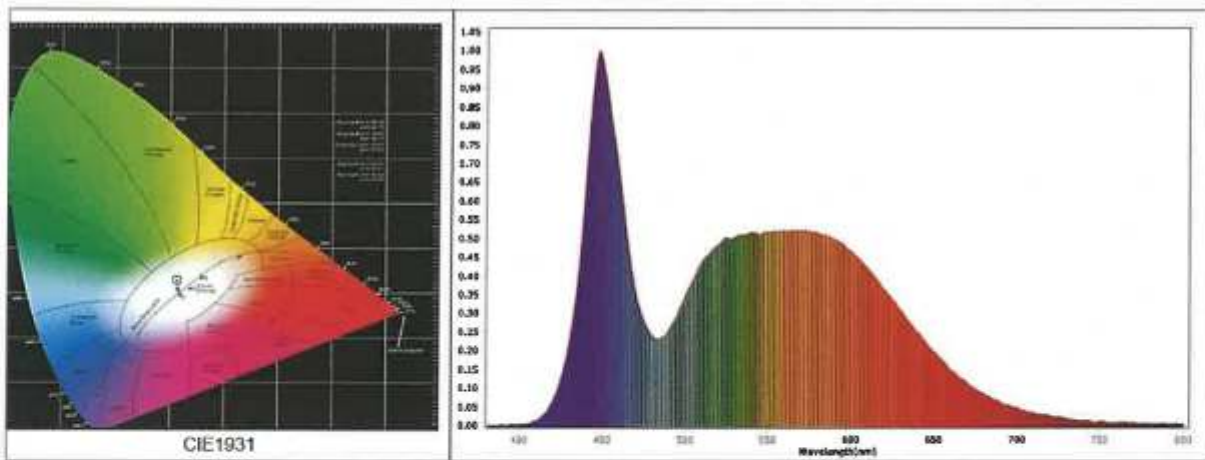
Report No.: BSL/TR/ET/24113001

Dated: 17/09/2024

ULR: TC982524000001904F

IES LM-79-08/IS 16106:2012

Attachment No. 2: Spectral Power Distribution



*****END OF TEST REPORT*****





RIDDHAANTA ALLUMINIUM AND METALS LLP

PLOT NO. D12/15+16, ROAD NO. 10 C DANDIPATH, HOJIWALA INDUSTRIAL ESTATE,
SURAT, Phone - 9428395954 Email : riddhaanta.allunmetals@gmail.com



Sample Result Name	Measure Date Time	Method Name	Type	Type Corr Sample Name
final/194/DAY LIGHT	12-10-2024 19:50:47	AI-20	Unknown	

Sample Name	Heat No.	Party Name	Grade ID
final	194	DAY LIGHT	General ADC12

Meas.	Si	Fe	Cu	Mn	Mg	Cr	Ni
	%	%	%	%	%	%	%
1	11.28	0.906	1.80	0.196	0.188	0.0292	0.111
W. Min	9.60		1.50				
<>	11.28	0.906	1.80	0.196	0.188	0.0292	0.111
W. Max	12.00	1.000	3.50	0.500	0.300		0.500

Meas.	Zn	Ti	Be	Bi	Ca	Cd	Co
	%	%	%	%	%	%	%
1	0.984	0.0368	0.00060	0.0028	0.0019	0.00091	<0.00050
<>	0.984	0.0368	0.00060	0.0028	0.0019	0.00091	<0.00050
W. Max	1.000	0.300					

Meas.	Ga	Li	Na	P	Pb	Sb	Sn
	%	%	%	%	%	%	%
1	0.0129	<0.00010	<0.00010	0.0016	0.105	<0.0030	0.0246
<>	0.0129	<0.00010	<0.00010	0.0016	0.105	<0.0030	0.0246
W. Max					0.200		0.200

Meas.	Sr	V	Zr	Al
	%	%	%	%
1	<0.00010	0.0060	0.0052	84.30
<>	<0.00010	0.0060	0.0052	84.30



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TEST REPORT

Page 1 of 7 ^{TC-9825}

TEST REPORT NO:	BSL/TR/ET/24J19002	DATE OF ISSUE:	23/10/2024
ULR NUMBER:	TC982524000002171F		

NAME OF LABORATORY	BLUESKY LAB LLP
ADDRESS OF LABORATORY	1st, 2nd, 3rd Floor, Plot no 62, 63 Ganga Enclave, BehtaHajipur, Loni Border, Main Delhi Saharanpur Road, Near Johri Enclave Metro Station, Ghaziabad, Uttar Pradesh-201102
NAME OF CUSTOMER	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
CUSTOMER ADDRESS	KHASRA N. 142/2, GARIPLIYA, GARIPLIYA, 142/2, TEHSIL SANWER, INDORE, 452001 MADHYA PRADESH, MADHYA PRADESH, India-452001

TEST ITEM DESCRIPTION			
PRODUCT NAME	LED FLOOD LIGHT	SAMPLE CONDITION	Good
DATE OF RECEIPT	19/10/2024	NO. OF SAMPLE	01
RECEIPT NUMBER	BSL/ET/24J19002	SERIAL NO.	Null
MODEL	HWFL240W	TRADE MARK	
RATINGS / SPECIFICATIONS	240VAC, 50/60Hz, 240W		

TEST SPECIFICATION			
TEST METHOD/ STANDARD	IES LM-79-08/IS 16106:2012		
TEST START DATE	21/10/2024	TEST END DATE	21/10/2024
ENVIRONMENTAL CONDITION	(25±1)°C/ <70% RH	TEST REPORT FORMAT	BSL/F7.8/TRF/LM79-08
OTHER ASPECTS	This report consists of 07 pages.		

CONCLUSION	
TEST RESULT	The test results Conforms/Did not conform to the requirement of the standard/test protocol based on the obtained test values/results mentioned in the test report.
REMARKS	<ul style="list-style-type: none"> - Compliance statement in the report has been made considering decision rule as inherent in its test standard and latest version of ILAC G-8. - The test result presented in this test report relate only to the object tested. - This report shall not be re-produce except in full without the written approval of the issuing testing laboratory. -The laboratory is not responsible for all the information provided by the customer.

Issued By:	Approved By:/Reviewed By:	Issued By:
Testing Engineer: GOKUL SINGH BHANDARI DATE: 23/10/2024	Technical Manager: Kapil Kumar Dhaka DATE: 23/10/2024	C.E.O. Kapil Kumar Dhaka DATE: 23/10/2024





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TC-9825

TEST REPORT

Report No.: BSL/TR/ET/24J19002

Date: 23/10/2024

IES LM-79-08/IS 16106:2012

ULR: TC982524000002171F

Table – List of Attachments

Attachment No.	Attachment Description	Page No.
Attachment No. 1	Luminous Intensity Distribution Curve	06
Attachment No. 2	Spectrum Test Result	07

Possible test case verdicts:

- test case does not apply to the test object : N/A
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement : F (Fail)

Condition of samples.....: GOOD

Testing

Date of receipt of test item : 19/10/2024

Date(s) of performance of tests..... : 21/10/2024

Laboratory conditions

Ambient Temperature..... : (25±1)°C

Ambient Humidity : <70%RH



BSL/F7.8/TRF/LM79-08





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TEST REPORT

TC-9825

Report No.: BSL/TR/ET/24J19002

Date: 23/10/2024

ULR: TC982524000002171F

IES LM-79-08/IS 16106:2012

Details of Test Equipment Used

Equipment Calibration status:

S. No.	Equipment Detail	Model	Equipment ID	Valid up to	Calibrated By
1.	Goniophotometer	LSG-5000	BSL-EQ-198	20/09/2025	In House Calibration with Standard lamp
2.	Measured Standard Lamp (150W, Tungsten halogen lamp, Omni-directional)	SLS-150W	BSL-EQ-207	15/11/2024	Shanghai Institute of Quality Inspection and Technical Research
3.	Digital Power Meter	LS2010	BSL-EQ-194	08/02/2025	PV Calibration Laboratory Pvt. Ltd.
4.	Digital AC Power Source	LSP-1KVARs	BSL-EQ-196	08/02/2025	PV Calibration Laboratory Pvt. Ltd.



BSL/F7.8/TRF/LM79-08





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TC-9825

TEST REPORT

Report No.: BSL/TR/ET/24J19002

Date: 23/10/2024

ULR: TC982524000002171F

IES LM-79-08/IS 16106:2012

Details of Tests Performed and Result

S. No.	Test Parameter	IES No. and Cl. No.
1.	Input RMS AC Voltage	IES LM79-08/Cl. No.: 8.0
2.	Input RMS AC Current	IES LM79-08/Cl. No.: 8.0
3.	Input AC Power	IES LM79-08/Cl. No.: 8.0
4.	Power factor	As per customer's request
5.	Frequency	IES LM79-08/Cl. No.: 8.0
6.	Total Luminous Flux	IES LM79-08/Cl. No.: 9.0
7.	Luminous Intensity Distribution	IES LM79-08/Cl. No.: 10.0
8.	Luminous Efficacy	IES LM79-08/Cl. No.: 11.0
9.	Chromaticity Coordinates	IES LM79-08/Cl. No.: 12.0
10.	Correlated Colour Temperature	IES LM79-08/Cl. No.: 12.0
11.	Colour Rendering Index	IES LM79-08/Cl. No.: 12.0



BSL/F7.8/TRF/LM79-08





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Email: Info@blueskylab.in



TC-9825

TEST REPORT

Report No.: BSL/TR/ET/24J19002

Date: 23/10/2024

IES LM-79-08/IS 16106:2012

ULR: TC982524000002171F

Discipline: Photometry

Group: Luminaires

Cl. No.	Test / Requirement name	Test result/ observation
8.0	Electrical Instrumentation The Electrical Characteristics measured for AC Powered SSL Products are	
	1. Input RMS AC Voltage	240.00 V
	2. Input RMS AC Current	0.9274 A
	3. Input AC Power	240.14 W
	4. Power Factor	0.9840
	5. Frequency	50.0Hz
9.0	Total Luminous Flux	25676.2 lm
10.0	Luminous Intensity Distribution	See Attachment No. 1
11.0	Luminous Efficacy	106.92 lm/W
12.0	Color Characteristics (Centre) (Average)	
	1. Chromaticity Coordinates	x=0.3166 y=0.3347
	2. Correlated Color Temperature (Average)	6266K
	3. Color Rendering Index (Average)	Ra=72.6

Test Method (Goniophotometer):

1. The sample was tested according to the IES LM-79-2008.
2. The condition of the sample tested was new. Stabilization time before testing was 120 minutes total Measurement time is 30 minutes.
3. Orientation (burning position) of SSL product during testing was its normal burning position i.e. at zero degree inclination to horizontal.
4. Electrical measurements were obtained with a LISUN LS2010 digital power meter.
5. Photometric parameters (**Luminous Intensity Distribution**) are obtained using C-type Goniophotometer and software.
6. The ambient temperature was maintained at $(25 \pm 1)^\circ \text{C}$ during testing.
7. The test distance is more than 5 times the maximum light emitting area.
8. The sample was operated at 110Vac. It was stabilized before measurement. No deviation from standard operating procedures.

BSL/F7.8/TRF/LM79-08





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TC-9825

TEST REPORT

Report No.: BSL/TR/ET/24J19002

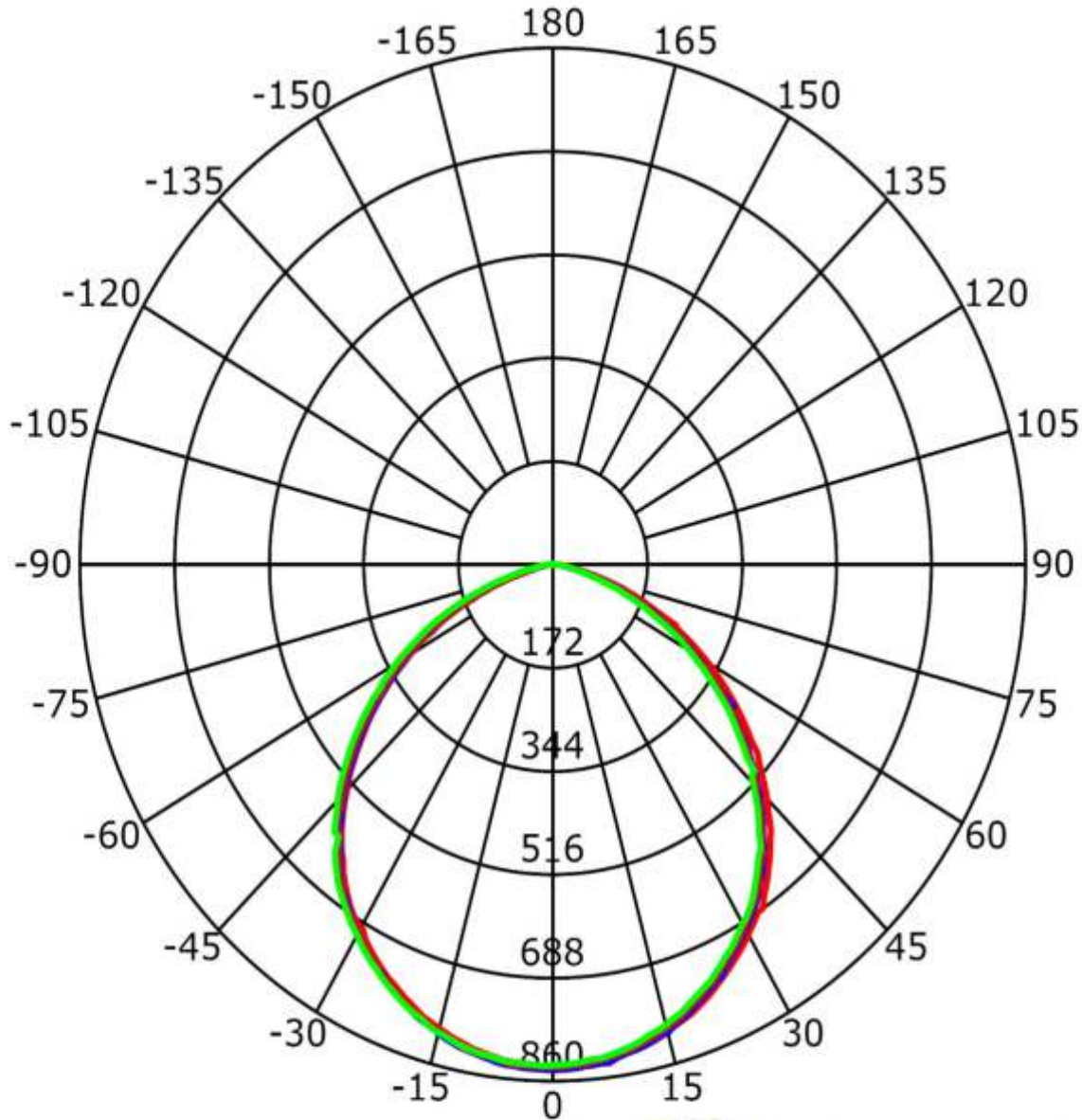
Date: 23/10/2024

ULR: TC982524000002171F

IES LM-79-08/IS 16106:2012

Attachment No- 1:

Luminous Intensity Distribution Curve



BSL/F7.8/TRF/LM79-08





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TC-9825

TEST REPORT

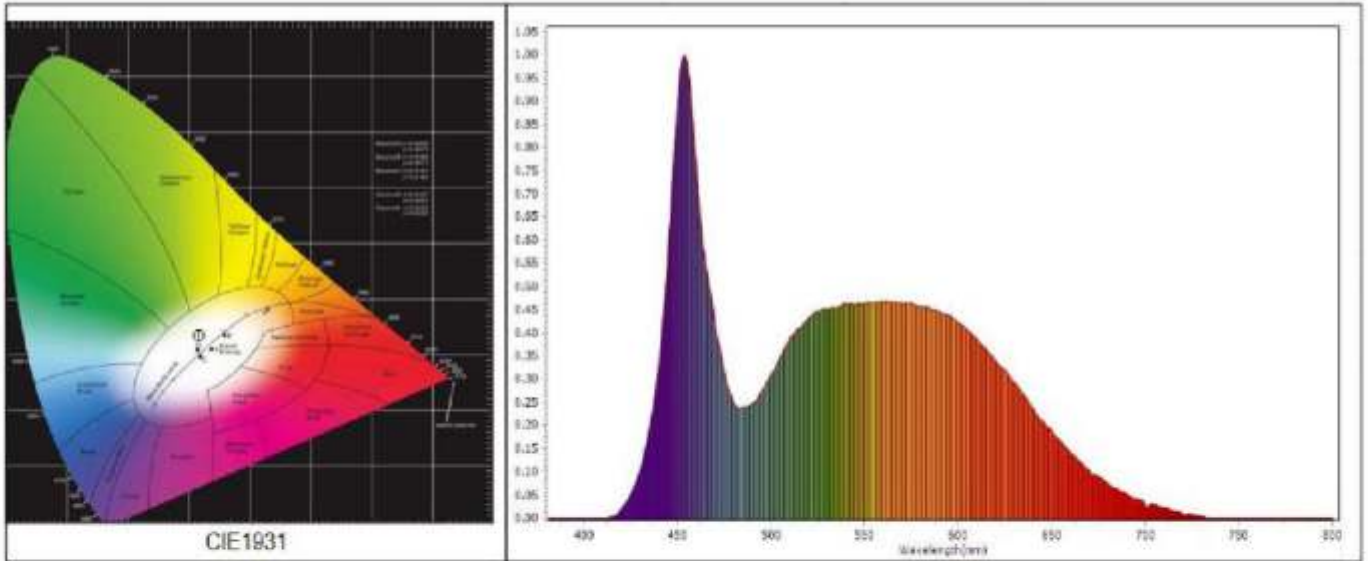
Report No.: BSL/TR/ET/24J19002

Date: 23/10/2024

ULR: TC982524000002171F

IES LM-79-08/IS 16106:2012

Attachment No. 2: Spectral Power Distribution



*****END OF TEST REPORT*****

BSL/F7.8/TRF/LM79-08





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TEST REPORT

Page 1 of 2

TEST REPORT NO:	BSL/TR/ET/24J19004	DATE OF ISSUE:	23/10/2024
ULR NUMBER:	TC982524000002173F		

NAME OF LABORATORY	BLUESKY LAB LLP
ADDRESS OF LABORATORY	1st, 2nd, 3rd Floor, Plot no 62, 63 Ganga Enclave, BehtaHajipur, Loni Border, Main Delhi Saharanpur Road, Near Johri Enclave Metro Station, Ghaziabad, Uttar Pradesh-201102
NAME OF CUSTOMER	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
CUSTOMER ADDRESS	KHASRA NO.142/2, GARIPLIYA, GARIPLIYA, 142/2, TEHSIL SANWER, INDORE ,452001 MADHYA PRADESH, MADHYA PRADESH, India – 452001

TEST ITEM DESCRIPTION			
PRODUCT NAME	LED FLOOD LIGHT	SAMPLE CONDITION	Good
DATE OF RECEIPT	19/10/2024	NO. OF SAMPLE	01
RECEIPT NUMBER	BSL/ET/24J19004	SERIAL NUMBER	Nil
MODEL NO.	HWPLF18W	TRADE MARK	
RATINGS / SPECIFICATIONS	110VAC, 50Hz, 18W, IP66, IK10		

TEST SPECIFICATION			
TEST METHOD/ STANDARD	IEC 62262:2002		
TEST START DATE	23/10/2024	TEST END DATE	23/10/2024
ENVIRONMENTAL CONDITION	(23±5)°C / <70%RH	TEST REPORT FORMAT	BSL/F7.8/TRF/IEC 62262
OTHER ASPECTS	This report consists of 02 pages.		

CONCLUSION	
TEST RESULT	The test results Conforms/Did-not-conform to the requirement of the standard/test protocol based on the obtained test values/results mentioned in the test report.
REMARKS	<ul style="list-style-type: none"> - Compliance statement in the report has been made considering decision rule as inherent in its test standard and latest version of ILAC G-8. - The test result presented in this test report relate only to the object tested. - This report shall not be re-produce except in full without the written approval of the issuing testing laboratory. -The laboratory is not responsible for all the information provided by the customer.

Tested By:	Approved By: / Reviewed By:	Issued By:
Testing Engineer: GOKUL SINGH BHANDARI	Technical Manager: Kapil Kumar Dhaka	C.E.O.: Kapil Kumar Dhaka
DATE: 23/10/2024	DATE: 23/10/2024	DATE: 23/10/2024





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TEST REPORT

Report No.: BSL/TR/ET/24J19004

Dated: 23/10/2024

ULR: TC982524000002173F

IEC 62262:2002

Discipline: ELECTRICAL

Group: ENVIRONMENTAL TEST FACILITY

Sr. No.	Cl. No./ Test Name	Requirement	Test Observation/Result	Verdict
1.	Impact Test (IK10) (As per IEC 62262:2002)	Test to verify the protection against mechanical impacts as per IK code IK10 Impact Energy: 20 Joules No. of Impact: 05 Enclosure shall with stand the impact test and after the test the sample shall not show any damage.	Complies	Pass

**** END OF TEST REPORT ****



IES LM-80 Test Report

Report Issue Date : December 13, 2017 **Report Number :** I-160620-59-K-01
Testing Start Date : June 29, 2016 **Testing Completion Date :** April 01, 2017
Revision Number : 01 **Test Duration :** 6 000 h

Manufacturer Information :

Applicant : Seoul Semiconductor Co., LTD
Address : 97-11, Sandan-ro 163, Danwon-gu, Ansan, Gyeonggi-do, Korea 15429

Description of Test Samples :

Classification : LED Package
PKG Name : 3528
Part Number : STWxA32E-xx
Drive Current : 100 mA

Test Procedure :

IES LM-80-08 Approved Method for Measuring Lumen Maintenance of LED Light Sources



Tested by



InHoi SIM, Research Engineer

Approved by



YoungJoon WON, Laboratory Manager

Seoul Semiconductor Testing Laboratory(KT-484) is accredited to ISO/IEC 17025:2005 for the above test procedure by KOLAS, Republic of KOREA which is a signatory to ILAC-MRA.

Seoul Semiconductor Testing Laboratory

97-11, Sandan-ro 163, Danwon-gu, Ansan, Gyeonggi-do, Korea 15429, E-mail: LM80@seoulsemicon.com

TEST REPORT

According to ANSI/IES LM-80-15
For

Shineon (Nanchang) Technology Co., Ltd.

Building 7-1, CECEP Low-Carbon Technology Jiangxi Park, No.699 Tianxiang Avenue, High-Tech Development District, Nanchang City, Jiangxi Province, P.R. China

Model: 5050A06-30N75

Report Type: 18000 Hours Test Report	Product Type: LED Package
Reviewed By: Pote Wang	<i>Pote Wang</i>
Report Number: DG3200928-32042E-EE-18000	
Test Date: 2020-10-02 to 2022-11-22	
Report Date: 2023-02-09	
Approved by: Bill Xiong / EE Engineer	<i>Bill Xiong</i>
Prepared By:	Bay Area Compliance Laboratories Corp. (Shenzhen) 5/F(B-West) -7/F, the 3rd Phase of Wan Li Industrial Building D, Shihua Road, Futian Free Trade Zone Shenzhen, Guangdong, China. Tel: +86-755-33320018 Fax: +86-755-33320008
Test Facility:	Test facility was located at No.12, Pulong East 1 st Road, Tangxia Town, Dongguan, Guangdong, China.





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TC-9825

TEST REPORT

Page 1 of 2

TEST REPORT NO:	BSL/TR/ET/24J19003	DATE OF ISSUE:	23/10/2024
ULR NUMBER:	TC982524000002172F		

NAME OF LABORATORY	BLUESKY LAB LLP
ADDRESS OF LABORATORY	1st, 2nd, 3rd Floor, Plot no 62, 63 Ganga Enclave, BehtaHajipur, Loni Border, Main Delhi Saharanpur Road, Near Johri Enclave Metro Station, Ghaziabad, Uttar Pradesh-201102
NAME OF CUSTOMER	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
CUSTOMER ADDRESS	KHASRA NO.142/2, GARIPIPLIYA, GARIPIPLIYA, 142/2, TEHSIL SANWER, INDORE .452001 MADHYA PRADESH, MADHYA PRADESH, India – 452001

TEST ITEM DESCRIPTION			
PRODUCT NAME	LED FLOOD LIGHT	SAMPLE CONDITION	Good
DATE OF RECEIPT	19/10/2024	NO. OF SAMPLE	01
RECEIPT NUMBER	BSL/ET/24J19003	SERIAL NUMBER	Nil
MODEL	HWPLF18W	TRADE MARK	
RATINGS / SPECIFICATIONS	110VAC, 50Hz, 18W, IP66, IK10		

TEST SPECIFICATION			
TEST METHOD/ STANDARD	IEC 60529:1989+A1:1999+A2:2013		
TEST START DATE	22/10/2023	TEST END DATE	22/10/2024
ENVIRONMENTAL CONDITION	(23±5)°C / <70%RH	TEST REPORT FORMAT	BSL/F7.8/TRF/IEC 60529
OTHER ASPECTS	This report consists of 02pages.		

CONCLUSION	
TEST RESULT	The test results Conforms/Did not conform to the requirement of the standard/test protocol based on the obtained test values/results mentioned in the test report.
REMARKS	<ul style="list-style-type: none"> - Compliance statement in the report has been made considering decision rule as inherent in its test standard and latest version of ILAC G-8. - The test result presented in this test report relate only to the object tested. - This report shall not be re-produce except in full without the written approval of the issuing testing laboratory. -The laboratory is not responsible for all the information provided by the customer.

Tested By:	Approved By:/ Reviewed By:	Issued By:
Testing Engineer: GOKUL SINGH BHANDARI	Technical Manager: Kapil Kumar Dhaka	C.E.O.: Kapil Kumar Dhaka
DATE: 23/10/2024	DATE: 23/10/2024	DATE: 23/10/2024





BlueSky Lab LLP

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TEST REPORT

Report No.: BSL/TR/ET/24J19003

Dated: 23/10/2023

ULR- TC982524000002172F

IEC 60529:1989+ A1:1999+A2:2013

Discipline: ELECTRICAL

Group: ENVIRONMENTAL TEST FACILITY

Sr. No.	Cl. No./ Test Name	Requirement	Test Observation/Result	Verdict
1.	IP 66 test (As per IEC 60529:1989+ A1:1999+A2:2013)	Cl. No. 13.4 & 13.6: For First Characteristic Numerical 6 Protection against solid foreign object: Dust tight – No ingress of dust Test Conditions: 1) Nominal wire diameter: 50 µm. 2) Nominal width of a gap between wires: 75 µm. 3) Amount of talcum powder: 2kg/m ³ . 4) Depression: 2kPa (20 mbar). 5) Test duration: 8hrs.	After the test, No dust found inside of enclosure	Pass
		Cl. No. 14.2.6: For Second Characteristic Numerical 6 Protected against water: Protected against powerful water jets – Water projected in powerful jets against the enclosure from any direction shall have no harmful effects Test Conditions: 1. Internal diameter of the nozzle: 12.5mm. 2. Delivery rate: 100 l/min ± 5 %. 3. Distance from nozzle to enclosure surface: 3 m. 4. Minimum test duration: 3 min.	After the test, No water found inside of enclosure	Pass

*****END OF TEST REPORT*****





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TEST REPORT

Page 1 of 2

TEST REPORT NO:	BSL/TR/ET/24J19004	DATE OF ISSUE:	23/10/2024
ULR NUMBER:	TC982524000002173F		

NAME OF LABORATORY	BLUESKY LAB LLP
ADDRESS OF LABORATORY	1st, 2nd, 3rd Floor, Plot no 62, 63 Ganga Enclave, BehtaHajipur, Loni Border, Main Delhi Saharanpur Road, Near Johri Enclave Metro Station, Ghaziabad, Uttar Pradesh-201102
NAME OF CUSTOMER	HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED
CUSTOMER ADDRESS	KHASRA NO.142/2, GARIPLIPIYA, GARIPLIPIYA, 142/2, TEHSIL SANWER, INDORE ,452001 MADHYA PRADESH, MADHYA PRADESH, India – 452001

TEST ITEM DESCRIPTION			
PRODUCT NAME	LED FLOOD LIGHT	SAMPLE CONDITION	Good
DATE OF RECEIPT	19/10/2024	NO. OF SAMPLE	01
RECEIPT NUMBER	BSL/ET/24J19004	SERIAL NUMBER	Nil
MODEL NO.	HWPLF18W	TRADE MARK	
RATINGS / SPECIFICATIONS	110VAC, 50Hz, 18W, IP66, IK10		

TEST SPECIFICATION			
TEST METHOD/ STANDARD	IEC 62262:2002		
TEST START DATE	23/10/2024	TEST END DATE	23/10/2024
ENVIRONMENTAL CONDITION	(23±5)°C / <70%RH	TEST REPORT FORMAT	BSL/F7.8/TRF/IEC 62262
OTHER ASPECTS	This report consists of 02 pages.		

CONCLUSION	
TEST RESULT	The test results Conforms/Did-not-conform to the requirement of the standard/test protocol based on the obtained test values/results mentioned in the test report.
REMARKS	<ul style="list-style-type: none"> - Compliance statement in the report has been made considering decision rule as inherent in its test standard and latest version of ILAC G-8. - The test result presented in this test report relate only to the object tested. - This report shall not be re-produce except in full without the written approval of the issuing testing laboratory. -The laboratory is not responsible for all the information provided by the customer.

Tested By:	Approved By: / Reviewed By:	Issued By:
Testing Engineer: GOKUL SINGH BHANDARI	Technical Manager: Kapil Kumar Dhaka	C.E.O.: Kapil Kumar Dhaka
DATE: 23/10/2024	DATE: 23/10/2024	DATE: 23/10/2024





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TEST REPORT

Report No.: BSL/TR/ET/24J19004

Dated: 23/10/2024

ULR: TC982524000002173F

IEC 62262:2002

Discipline: ELECTRICAL

Group: ENVIRONMENTAL TEST FACILITY

Sr. No.	Cl. No./ Test Name	Requirement	Test Observation/Result	Verdict
1.	Impact Test (IK10) (As per IEC 62262:2002)	Test to verify the protection against mechanical impacts as per IK code IK10 Impact Energy: 20 Joules No. of Impact: 05 Enclosure shall with stand the impact test and after the test the sample shall not show any damage.	Complies	Pass

**** END OF TEST REPORT ****





PRODUCT NAME	HIWAY 120W LED STREET LIGHT WITH HIGH POWER LED	
PRODUCT CODE	HWSL120W	
ELECTRICAL PARAMETERS	TOTAL SYSTEM WATTAGE	120W*
	INPUT VOLTAGE	240VAC, 50Hz
	OPERATING VOLTAGE RANGE	120V - 270V AC
	INPUT CURRENT	390mA*
	POWER FACTOR	≥0.95
	THD %	≤10%
	DRIVER EFFICIENCY	≥85%
	ISOLATION	ISOLATED
	TYPE OF DRIVER	POTTED DRIVER, CONSTANT CURRENT
OPTICAL PARAMETERS	LUMINOUS EFFICACY	125 lm/w*
	COLOR TEMPERATURE	COOL WHITE
	CRI	≥70
	OPTICS USED	LENS
MECHANICAL PARAMETERS	MATERIAL FOR LENS	PC/PMMA LENS
	MATERIAL FOR LED ENGINE	METAL CORE PCB
	MATERIAL FOR GLASS/COVER	TOUGHENED GLASS
	MOUNTING (POLE DIA.) ±5mm	POLE MOUNTING (MAX. 50mm)
	MATERIAL FOR FIXTURE	HIGH GRADE ALUMINIUM PRESSURE DIE CAST HOUSING
SAFETY PARAMETERS	INGRESS PROTECTION	IP66
	OVER VOLTAGE PROTECTION	ABOVE 320V
	UNDER VOLTAGE PROTECTION	UNDER 90V
	440V PROTECTION	YES
	SHORT CIRCUIT PROTECTION	YES
	SERGE PROTECTION	6KV INTERNAL & 10KV WITH EXTERNAL SPD
LED PARAMETERS	TYPE OF LIGHT SOURCE	HIGH POWER 5050 LED SMD
	LED MAKE	LM80 APPROVED, LED CHIP STANDARD/EQUIVALENT MAKE
	LED BEAM ANGLE	120° WIDE BEAM ANGLE
	LED CHIP EFFICACY	≥150 lm/w
	LED LIFE	50,000 HRS AS PER LM80 REPORT
WORKING PARAMETERS	WORKING TEMPERATURE	0°C ~ 50°C
	WORKING HUMIDITY	10% ~ 90% RH
	WORKING HOURS	LUMINAIRE IS SUITABLE FOR DUSK TO DAWN OPERATION PER DAY

*Tolerance ±10% (As per BIS)

Proper Grounding of light must be required to avail the warranty (Compulsory)

Proper Connection of external SPD must be required to avail the warranty (Compulsory)

HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED

Manufacturer, Supplier & Services of Led Lights

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Page 1 of 2

TEST REPORT NO:	HW006281024	DATE OF ISSUE:	28/10/2024
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TEST ITEM DESCRIPTION

PRODUCT NAME	LED FLOOD LIGHT	SAMPLE CONDITION	Good
DATE OF RECEIPT	28/10/2024	NO. OF SAMPLE	01
MODEL	HWFL240W	TRADEMARK	
RATINGS/ SPECIFICATIONS	240VAC, 50/60Hz, 240W		

TEST SPECIFICATION

TEST METHOD/ STANDARD	Protocol followed as per customer requirements		
TEST START DATE	28/10/2024	TEST END DATE	28/10/2024
ENVIRONMENTAL CONDITION	(25±1)°C		
OTHER ASPECTS	This report consists of 02 pages		

CONCLUSION

TEST RESULT	The test results Conforms/Did not conform to the requirement of the standard/test protocol based on the obtained test values/results mentioned in the test report.
REMARKS	<ul style="list-style-type: none">- Compliance statement in the report has been made considering decision rule as inherent in its test standard.- The test result presented in this test report relate only to the object tested.- This report shall not be re-produce except in full without the written approval of the issuing testing laboratory.

Issued By:	Approved By/Reviewed By:	Issued By:
Testing Engineer: GANESH VERMA DATE: 28/10/2024	Technical Manager: PANKAJ PANDEY DATE: 28/10/2024	C.E.O. NITIN JAIN DATE: 28/10/2024



HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED

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Report No.: HW006281024
Dated: 28/10/2024

Protocol followed as per customer requirements

Sr. No.	Cl.No./Test Name	Requirement	Test Observation/Result	Verdict
1.	Surge Protection	Amplitude: ±6KV Pulse: 1.2/50µs (Voltage wave form) & 8/20 µs (Current waveform) No. of surges: 10 {5 in each polarity (+ve & -ve)} applied between Live and earth. Phase angle: 0°, 90°, 180°, 270° Repetition rate: 1 per min. During and after the test, EUT shall work satisfactorily for its intended use.	During and after the test, EUT shall working satisfactorily for its intended use. (Performance criterion A)	Pass

Performance Criterion for Immunity Tests:

Performance Criterion "A":

During the test, normal performance within limits specified by the manufacturer, requestor or purchaser;

Performance Criterion "B":

During the test, temporary loss of function or degradation of performance, which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention;

Performance Criterion "C":

During the test, temporary loss off unction or degradation of performance, the correction of which requires operator intervention;

Performance Criterion "D":

During the test, loss off unction or degradation of performance which is not recoverable, owing to damage to hardware or software, or loss of data.

*****ENDOFTEST REPORT*****



HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED

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Page 1 of 2

TEST REPORT NO:	HW005281024	DATE OF ISSUE:	28/10/2024
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TEST ITEM DESCRIPTION			
PRODUCT NAME	LED FLOOD LIGHT	SAMPLE CONDITION	Good
DATE OF RECEIPT	28/10/2024	NO. OF SAMPLE	01
MODEL	HWFL240W	TRADE MARK	Hi-way
RATINGS/ SPECIFICATIONS	240VAC, 50/60Hz, 240W		

TEST SPECIFICATION			
TEST METHOD/ STANDARD	Protocol followed as per customer requirements		
TEST START DATE	28/10/2024	TEST END DATE	28/10/2024
ENVIRONMENTAL CONDITION	(25±1)°C		
OTHER ASPECTS	This report consists of 02 pages		

CONCLUSION	
TEST RESULT	The test results Conforms/Did not conform to the requirement of the standard/test protocol based on the obtained test values/results mentioned in the test report.
REMARKS	<ul style="list-style-type: none"> - Compliance statement in the report has been made considering decision rule as inherent in its test standard. - The test result presented in this test report relate only to the object tested. - This report shall not be re-produce except in full without the written approval of the issuing testing laboratory.

Issued By:	Approved By/Reviewed By:	Issued By:
		
Testing Engineer: GANESH VERMA DATE: 28/10/2024	Technical Manager: PANKAJ PANDEY DATE: 28/10/2024	C.E.O. NITIN JAIN DATE: 28/10/2024



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Report No.: HW005281024

Dated: 28/10/2024

Protocol followed as per customer requirements

Sr.No.	Test Parameters	Requirements	Observation
1.*	Over Voltage Cut-off (Protocol followed as per customer requirements)	Over Voltage Cut-off test input voltage shall increase gradually. OverVoltageCut-off:305VAC & restart at 290VAC.	EUT cut off at Voltage 305VAC & restart at 290VAC.
2.*	Under Voltage Cut-off (Protocol followed as per customer requirements)	Under Voltage Cut-off test input voltage shall decrease gradually. Under Voltage Cut-off: \leq 90VAC	EUT cut off at Voltage \leq 90VAC.
3.*	Double Phase Protection (Protocol followed as per customer requirements)	EUT shall operate at 440VAC for 8 hours in continuous operation. After the test, EUT shall working satisfactorily.	EUT operated at 440VAC for 8 hours continuously. After the test, EUT is working satisfactorily.
4.*	Short Circuit Protection (Protocol followed as per customer requirements)	EUT shall operate at rated voltage and short circuit the output for 1hr. After the test, EUT shall operate satisfactorily.	After the test, EUT shall operate satisfactorily.



*****END OF TEST REPORT*****



HIWAY LIGHTING SOLUTIONS PVT LTD

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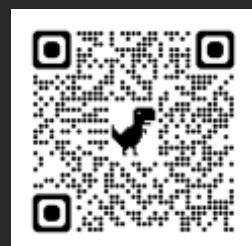
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