



S.V ELECTRICALS & INDUSTRIES

C.G/ M.P. PWD Registered

ISO 9001:2015

BIS R-82000256

NABL Certified

WEBSITE :

WWW.LUMENLEDLIGHTS.COM

Address:

PLOT NO-18 , GOVINDPURA BHEL, BHOPAL



INTRODUCTION



LUMEN IS AMONGST INDIA'S WIDELY ACCEPTED
RESIDENTIAL & INDUSTRIAL LED LIGHTING BRAND.

LUMEN'S SUCCESS LIES IN ITS TECHNOLOGICALLY
ADVANCED MANUFACTURING UNIT WHERE WIDE RANGE
OF INNOVATIVE LED LIGHTS & DRIVERS ARE
MANUFACTURED THAT ARE FAVOURABLE TO INDIAN
CONDITIONS.

Facilities offered at a Glance

1. Raising and Lowering Lighting Masts
2. Monopoles for Telecommunication / CCTV
3. Street Lighting Poles
4. Masts for Special Applications
5. Fixed Head Masts for Sports Lighting
6. Signage Masts and Mid-Hinged Lighting Masts
7. Manufacturing Facilities
8. Other Products in the Range



CERTIFICATIONS





भारतीय मानक बोर्ड
BUREAU OF INDIAN STANDARDS
101, I.I.T. Road, New Delhi-110002
E-mail: registration@bis.gov.in

Our Ref: REGISTRATION: CRS-2019-0196/R-4200256
RENEWAL ID: 7824
Subject: RENEWAL OF LICENCE R-4200256 AS PER IS 11883(Part 2) Sec 13:2012

S.V. ELECTRICALS & INDUSTRIES
PLOT NO.18, SECTOR B, INDUSTRIAL AREA, GOVINDPURA, BHOPAL,
MADHYA PRADESH, India, 462023

Dear Sir/Madam,

This has reference to your BIS Self Declaration of Conformity Registration No. R-4200256, held for you, for Dr Or As Supplied Electronic Controller For Led Modules which was valid upto 07-03-2020.

As you are aware that renewal of your Registration was declined due to the non-receipt of renewal application & fees, in view of receipt of renewal application & fees on 18-06-2020, Competent Authority of BIS has decided to renew your above referred Registration for 2 years i.e. from 08-07-2020 to 07-07-2022. It has also been decided to allow you to resume marking on your article as per marking guidelines of the above referred Registration with immediate effect.

It may please be noted that your registration shall expire at the end of the above mentioned period. You are, therefore, requested to send your renewal application along with fees for its renewal, within three month before the expiry of the Registration.

Thanking you,

Yours faithfully,
Registration Department
Bureau of Indian Standards,
9, Bahadur Shah Zafar Marg,
New Delhi-110002
Tel: +91-11-23236476
E-mail: registration@bis.gov.in

Note: This is a system generated letter. Hence signature is not required.
In view of automation of letter, kindly scan the QR code on this letter.



Certificate of Registration

This is to certify that the
Quality Management System of

S. V. ELECTRICALS & INDUSTRIES

PLOT NO.-18, SECTOR B, INDUSTRIAL AREA, GOVINDPURA,
BHOPAL, MADHYA PRADESH, INDIA

has been independently assessed and is compliant with
the requirements of:

ISO 9001:2015

This Certificate is applicable to the following product or service ranges:

MANUFACTURING OF LED LIGHT AND DRIVERS

Certificate Number : UK-PSVEQ08077868

Initial Date of Registration : 08-07-2020
1st Surveillance Audit Due : 08-06-2021
Date of this certificate : 07-07-2021
Date of Expiry (Subject to the company
maintaining its system to the requirement standard) : 07-07-2023

Validity of this certificate is subject to the completion of surveillance audit on or before the date of due date in case surveillance audit not allowed to be conducted, this certificate shall be treated as superseded. This certificate is property of PIC Certification Pvt. Ltd. and shall be returned immediately upon demand.

Note: Surveillance Completion letter must be produced along with this certificate for the validity of this certificate.





PIC CERTIFICATION PVT. LTD.
Caldera Park, Adderstone, Reading Berkshire RG7 8BN, UK
Corporate Office: 11, Girdhar Vihar Apartment, Sector Complex,
Sector 18B, Bhopal-462042, M.P., Ph: 0755-4009002
Branch Office: S.1, Rudraksh Apartment, Street D, Sector, Government Quarters, M.P.
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www.picert.com, www.ukat.org.uk



PLANET ELECTRO LABS
AN ISO 9001/NABL/BIS CERTIFIED LABORATORY

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TEST CERTIFICATE

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QUALITY REPORT

TEST REPORT AS PER: IES: LM79-08
TEST REPORT NO. PEL/ED02000621A
U/LR No: TC527221600000252P
DATE OF ISSUE OF TEST REPORT: 29/01/2021
Customer Ref. & Date if any: Nil
Date of Sample Receipt: 29/01/2021 Start of Test Date: 29/01/2021 End of Test Date: 29/01/2021

NAME & ADDRESS OF CUSTOMER	
M/S. S.V. ELECTRICALS AND INDUSTRIES PLOT No. 18, SECTOR B INDUSTRIAL AREA, GOVINDPURA, BHOPAL, Madhya Pradesh, 462021	

PART A - PARTICULARS OF THE SAMPLE SUBMITTED	
NATURE OF SAMPLE	LED ROW STREET LIGHT
Grade/ Variety/ Typical Class/ Size etc.	240VAC, 50Hz, 90W, Made in India
Declared Values, if any (declared by the manufacturer)	90W STREET LIGHT
Code no./ Sr. No.	Nil
BIS Seal and ID's sign, if any.	Nil
Batch no., Date of manufacture	Nil
Brand Name/Model No.	Nil
Quantity of Samples	Brand "LUMEN" Model "LUM 90 SL"
Condition of the Sample when received.	G1 No.
Standard Specification (s).	OK
Environmental Conditions.	Temperature 25 ± 3°C & Relative Humidity <70%

PART B - SUPPLEMENTARY INFORMATION

a) Deviations from the test method as per relevant specification were in accordance, if any : Nil
b) Details of the drawings, graphs, tables, sketches, photographs as referred in the test report, if any : Nil
c) This report is not to be reproduced wholly or in part without our special permission in writing.
d) The report refers only to the particular sample described above.
e) The results reported in this certificate are valid at the time of and under the stipulated conditions of measurement.
f) Sample will be disposed off after 30 days of issue of test report if no further information is received.
g) All the tests are certified except one with asterisk mark (NABL NABL) as per reported separately.
h) Any recognition claim in the test report is solely for promotional/marketing purpose and has no relation with the content of the report.

Tested By	Approved By	Issued By
Testing Engineer Date: 29/01/2021	Technical Manager Date: 29/01/2021	Proprietor Date: 29/01/2021

Terms & Conditions: 1) This report will not be valid for judicial purposes. 2) Total validity of our laboratory is limited to two years.
3) Test results are valid only for the sample tested in our laboratory. 4) Samples tested are Non-Retroactive until specified at time of sample submission.





Technical Parameters



Material Used

Shaft– High tensile sheet/Plate Equivalent to IS 5986 / IS 2062 : 2011 Gr.E250BR / IS 5986 : 2011 Gr 250, Base Plate- As per IS 2062 2011 Gr.E250A, Foundation Bolt- IS 1367 : 1994 / IS 2062 : 2011 Gr.E250A, Pipe IS 2713 Part (I to III):1980 Standards applies to steel tubular swaged poles for street lighting, Power Transmission Line . It covers a range right from 410 SP 01 to 410 SP 80 & 540 SP 01 to 540 SP 80 .

LUMEN has the full production facility for the sizes:

Galvanizing:- As Per IS 4759 : 1996 / IS 2629 : 1985 / BSEN ISO 1461 : 2009

Wind speed:- As per IS 875 (Part-3):2015/As per customer requirement

Design:- As Per IS 875 Part-3:2015, IS 800 : 2007 / IS 6533:1989 (P-2) / BS 5649 : 1985 / EN 40, ILE TR-7:2000.

Welding:- As per IS 10178 : 1995/ IS 9595 : 1996

Design safety factor:- As per ILE TR 7:2000.

Motor: As per IS 325:1996 (3PH A.C., 415V, 4/6 Pole, 1HP to 3HP)

Winch: 350KGS, 500 KGS, 750 KGS (SGDD/DGDD) & 1500 KGS (DGDD).

Wire rope: Stainless Steel 6MM, 8MM, AISI 316, 7/19 Construction.

Trailing cable: As per IS 9968/P-1:1988 [2.5sq 5/8core, 4sq 5/8core, EPR Insulated, PCP Sheathed.

Wiring cable: As per IS 694:1990

Pulley: LM 6 with Self- lubricating PB bush.

Hardware: Stainless Steel

Feeder pillar box: As per customer requirement

Tolerances: As per BS 5649 : 1978/EN 40, IS 1852: 1985

HIGH MAST TOWER



High-Mast is a continuously taper polygonal cross section having one or more segment. It's generally used for Area Lighting Purpose, Mounting National Flag, Signage Board, Stadium Lightning Purpose or other application like chimney etc. It has movable carriage for raising and lowering which is operated with a power tool motor through Winch gear box. It has capping unit comprising with Die cast aluminum Pulley. It is used for large area lighting with the minimum number of obstructions. LUMEN'S High mast has designed to withstand wind speed as per IS 875 (P-3):2015 and can be customized up to 300Kmph. All the mast has Hot Dip Galvanized by single/Double dip seven tank processes. Mast has been designed considering minimum design life of 25 years.





DESIGNER POLES



Designer poles may be polygonal/conical/tubular construction. It has decorative luminary mounting attachment. We offering both Hot Dip Galvanized and painted poles to match with the color of luminary.

FLAG MAST



Flag Mast is generally used for Hoisting National flag. It has one or more polygonal segments. The Flag is movable type. We can manufacture flag mast as per our design in such a way that the impact or wind will be minimum or Customers design.

SIGNAGE MAST

Signage Mast is generally used for Advertising. It has one or more polygonal segments. The Signage structure may be movable or fixed type.

It has generally two or more face. It is designed in such a way that the impact or wind will be minimum. Special guide has been provided to reduce vibration. For proper balancing of movable ring, balancing screw has been provided.



POLYGONAL/OCTAGONAL POLESER



Polygonal Poles is generally a continuously taper octagonal cross section (can be customized for other sided also) having one or more section. On top it has a bracket to mount the luminary. This Pole used for Highway and Road Light, Hotel Entrance, Petrol Pump, Shopping Mall Entrance etc. It is designed to withstand wind speed as per IS 875 (P-3) and can be customized up to 300Km/h. All the Poles has Hot Dip Galvanized by single dip seven tank process. Pole has been designed considering minimum design life of 25 years. We provide special type internal hinge to prevent theft at site. All poles have manufactured in modern automatic machinery for better quality. Welding has been done by automatic SAW process ensure uniform and proper welding strength.





TRANSMISSION POLES



Transmission/distribution poles are generally polygonal cross section in one or more section with or without flange. We are offering transmission poles with fixed type ladder or detachable ladder. It has arrangement for fixing arms/insulators. All transmission poles are hot dip galvanized by seven tank single dip process. All holes are done before galvanization.

SWAGED POLE



IS 2713 Part (I to III):1980 Standards applies to steel tubular swaged poles for street lighting, Power Transmission Line . It covers a range right from 410 SP 01 to 410 SP 80 & 540 SP 01 to 540 SP 80 . LUMEN has full production facility for the sizes.

CONICAL POLES



Conical Poles is generally a continuously taper circular cross section having one or more section. On top it has a bracket to mount the luminary. Our Poles are designed to withstand wind speed as per IS 875 (P-3) and can be customized up to 300Km/h. All the poles has Hot Dip Galvanized by single dip seven tank process. Pole has been designed considering minimum design life of 5 years. We provide special type internal hinge on request to prevent theft at site. All poles have manufactured in modern automatic machinery for better quality. Welding has been done by automatic SAW process ensure proper welding strength.





SOLAR POLES

Solar Poles is generally a continuously taper octagonal/Conical or can be Tubular cross section generally one or more section. On top & side of pole it has a bracket to mount the SOLAR PANEL. Used for Airport Lighting, Hospital Area, Security Light, Commercial Lighting, Industrial Lighting purpose etc. K.P.C. Pole has design to withstand wind speed as per IS 875 (P-3) and can be customized upto 300Km/h. All the Solar Poles has Hot Dip Galvanized by single dip seven tank processes. Pole has been designed considering minimum design life of 25 years. All poles have manufactured in modern automatic machinery for better quality. Cutting has been done by CNC PLASMA ensure proper cutting line.



WHY LUMEN



- In house Design facilities (Structural & Foundation) with Special software
 - Available both in three point and two point suspension.
- Electroplated rope drum, sprocket and torque limiter which do not rust.
 - Rope drum of winch have one left hand and other right hand groove for better alignment of ring.
 - Available both Detachable arm and fixed arm Lantern Ring.
- Seven tanks and zero discharge galvanizing process with Flux tank heated by superheated steam for better Adhesion of zinc coating.
- All testing facility available in plant including Spectrometer for chemical analysis.

- **ALL TRAILING CABLES CONFIRM TO IS 9968 (P-1) FOR SAFETY AND DURABILITY.**
- **ALL THE HARDWARE SUPPLIED ARE STAINLESS STEEL FOR BETTER LIFE.**
- **OUR HEAD FRAME HAVE STAINLESS STEEL AXLE WITH ANTI ROTATION CLAMP TO PREVENT DAMAGE OF AXLE AND STAINLESS STEEL GUIDE ROLLER FOR SMOOTH ROLLING OF CABLE AND ROPE.**
- **HEAVY DUTY DRIVE CHAIN (1/2 INCH PITCH) FOR LIFTING THE RING.**
- **WE PROVIDE SAFETY LOCKING ROPE FOR HIGH MAST SAFETY.**
- **WE PROVIDE DOUBLE SAFETY PROTECTION OF MOTOR (ONE MECHANICAL AND ONE ELECTRICAL)**
- **OPTIONALLY WE PROVIDE ANTI THIEF NUT FOR FOUNDATION BOLT WITH SPECIALLY DEVELOPED WRENCH FOR HIGH MAST.**
- **CAN PROVIDE BOTH PVC AND HDPE BUFFER ARRANGEMENT FOR LANTERN RING.**
- **ALL WINCH & MOTOR TESTED WITH PROPER LOAD BEFORE DISPATCH.**
- **STRUCTURAL DESIGN IS CHECKED FOR ALL ORDERS BEFORE PRODUCTION.**



RAW MATERIALS TEST



RAW MATERIALS CAN BE REVIEWED OR WITNESS FROM OUR
TESTING HOUSE OF FROM NABL APPROVED LAB

GALVANISING TEST



GALVANIZING COATING CAN BE MEASURED BY ELCO METER OR
TESTED FROM OUR TESTING HOUSE OF FROM NABL APPROVED LAB





WELDING TEST

- **Distribution:** Weld material is distributed equally between the two materials that were joined.
- **Waste:** The weld is free of waste materials such as slag. The slag after cooling should peel away from the project. It should be removed easily. In Mig welding, any residue from the shielding gas should also be removed with little problem. Tig, being the cleanest process, should also be waste free. In Tig, if you see waste, it usually means that the material being welded was not cleaned thoroughly.
- **Porosity:** The weld surface should not have any irregularities or any porous holes (called porosity). Holes contribute to weakness. If you see holes it usually indicates that the base metal was dirty or had an oxide coating. If you are using Mig or Tig, porosity indicates that more shielding gas is needed when welding. Porosity in aluminum welds is a key indicator of not using enough gas.

- **TIGHTNESS:** IF THE JOINT IS NOT TIGHT, THIS INDICATES A WELD PROBLEM. IN OXYACETYLENE WELDING IF USING AUTOGENOUS WELDING, WHERE THERE IS NO FILLER MATERIAL, THE WELD MUST BE TIGHT.SAME FOR TIG AUTOGENOUS WELDING. THE GAP IS NOT AS CRITICAL IN OTHER TYPES OF WELDS SINCE ANY GAP IS FILLED IN BY THE FILLER MATERIAL. THAT SAID, GAPS IN GENERAL INDICATE A POTENTIAL QUALITY PROBLEM.
- **LEAK PROOF:** IF YOU ARE REPAIRING AN ITEM THAT CONTAINS LIQUID, A LEAK IS A SURE FIRE WAY (AND OBVIOUS WAY) TO SEE THAT THERE IS A PROBLEM. SAME FOR SOMETHING THAT WILL CONTAIN A GAS. ONE TESTING METHOD IS TO USE SOAP BUBBLES TO CHECK FOR PROBLEMS (CAN BE EASILY APPLIED WITH A SQUIRT BOTTLE.
- **STRENGTH:** MOST WELDS NEED TO DEMONSTRATE THE REQUIRED STRENGTH. ONE WAY TO ENSURE PROPER STRENGTH IS TO START WITH A FILLER METAL AND ELECTRODE RATING THAT IS HIGHER THAN YOUR STRENGTH REQUIREMENT.





DROP TEST

Vertically free fall from 2 mtrs height for 3 time . the pole shall not show telescoping & loosing at joints.

DEFLECTION TEST

The pole shall be loaded as a cantilever, and the appropriate deflection load (as per table) at the right angles to the axis of pole. The temporary deflection due to the applied load at the point of application shall not exceed 157.5mm.

SWAGED POLE

Test shall be done as per designation standard table and maximum deviation exceed 13 mm

PAINTING

Painted with black bituminous paint up to planting depth and remaining portion painted with red oxide primer.