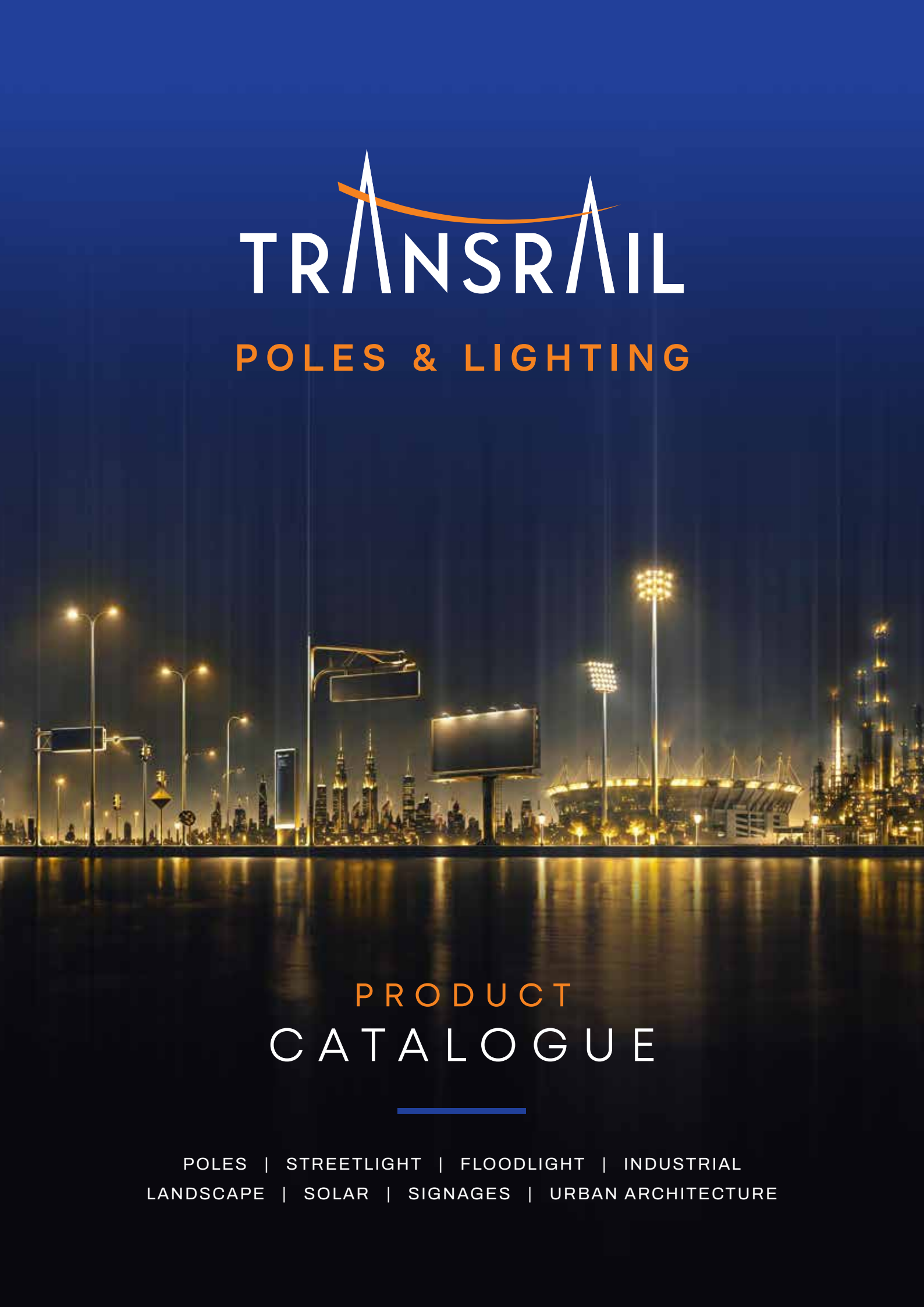


A nighttime photograph of a city skyline reflected in water. In the foreground, several tall, modern streetlights and stadium floodlights are visible, their lights glowing. The background shows a dense urban skyline with various skyscrapers and a large stadium with a distinctive roof structure. The sky is a deep blue, and the water in the foreground is dark, reflecting the lights from the city and the lights themselves.

TRANSRAIL

POLES & LIGHTING

PRODUCT CATALOGUE

POLES | STREETLIGHT | FLOODLIGHT | INDUSTRIAL
LANDSCAPE | SOLAR | SIGNAGES | URBAN ARCHITECTURE



A leading & preferred infrastructure turnkey solutions provider.

Rich pedigree of FOUR decades.

Catering to customers across the globe & offering solution across to Power T&D, Substations, Civil Construction, Railways, Solar and Poles & Lighting.

Having large scale manufacturing capacities assisting T&D business



VISION

To be a valued global EPC Company in the Power Transmission, Distribution, Lighting Solutions, Railways, Solar and other infrastructures.

MISSION

Our mission is to become No. 1 choice by ensuring:

- On-time completion of projects that meet customers expectations.
- Satisfying work environment & benefits to our employees.
- Reduction in environmental impacts of our operations.
- Reduction in occupational health & safety risks due to our operations.
- Provide safe & healthy working conditions for prevention of work-related injury & ill health.

CULTURE

We believe that all losses to People, Equipment, Materials and Environment (PEME) result from inadequate system designs, system standards or system compliance. These inadequacies are essentially loss of control that can be attributed to management failure. We, foster an Integrated Management System oriented culture that is understood, shared and practiced by employees as a part of everyday business.

This culture is based on:

- Customer focus
- Leadership
- Involvement of people
- Process-oriented approach.
- Systems approach to management
- Continual improvement.
- Factual approach to decision making.
- Mutually beneficial supplier relationships.

CORE VALUES & STRENGTHS

Transrail Lighting Limited is steered by a buoyant corporate culture and a mutual set of core values. These values govern us in everything we do and drive a culture empowering the right conduct for a high performing and learning organization.



Holistic Solution

In-house tower, conductor and pole manufacturing, along with construction capabilities.

A complete solution provider.



Quality

An ISO Certified Integrated Management System

Certified with ISO 9001:2008

A CE certified company



Expertise

Combination of diverse talent pool, advanced engineering and project management strengths



Preferred Partner

Offer EPC Services for a range of projects; amalgamation of which make us a preferred choice amongst our partners.



Competency

In-house facilities assure superior quality

Delivery of cost-efficient products in the shortest possible time.



Legacy

Unmatched position in the marketplace.

An unbending project management philosophy.



Health and Safety

Key priority is to ensure health and safety of the stakeholders.

ISO 14001 and ISO 45001 certified company.



Diversified Global Presence

A Strong Contender within India's next wave of core infrastructure expansion.

Optimized Reach to several International Markets.

OUR BUSINESS VERTICALS

We are an integrated infrastructure company that offers quality-oriented solutions in the areas of Power T&D, substations, railways, solar, pole & lighting infrastructure and civil construction.



Transmission,
Distribution & Substation



Railways



Civil
Construction



Solar



Poles &
Lighting

GLOBAL FOOTPRINT 63 COUNTRIES

At Transrail Limited, we have expanded our presence and reach across the length and breadths of the globe. We have emerged as a global player with a strong presence in 63 countries across the world. On the domestic front, we are Pan-India Company, having executed projects in all corners of India.



MANUFACTURING UNITS

We are one of the leading Indian engineering, procurement and construction companies with primary focus on power transmission and distribution business and integrated manufacturing facilities for lattice structures, conductors and monopoles. Our Company has five manufacturing facilities located at Vadodara (Gujarat), Butibori (Nagpur, Maharashtra), Deoli (Maharashtra) and two facilities located in Silvassa (Dadra and Nagar Haveli).

	Tower	Conductor	Pole
Locations	Vadodara Deoli - Wardha Butibori	Silvassa	Silvassa
Year of Establishment	1994, 2010 & 2026	2007	2010



ABOUT TRANSRAIL LIGHTING LIMITED

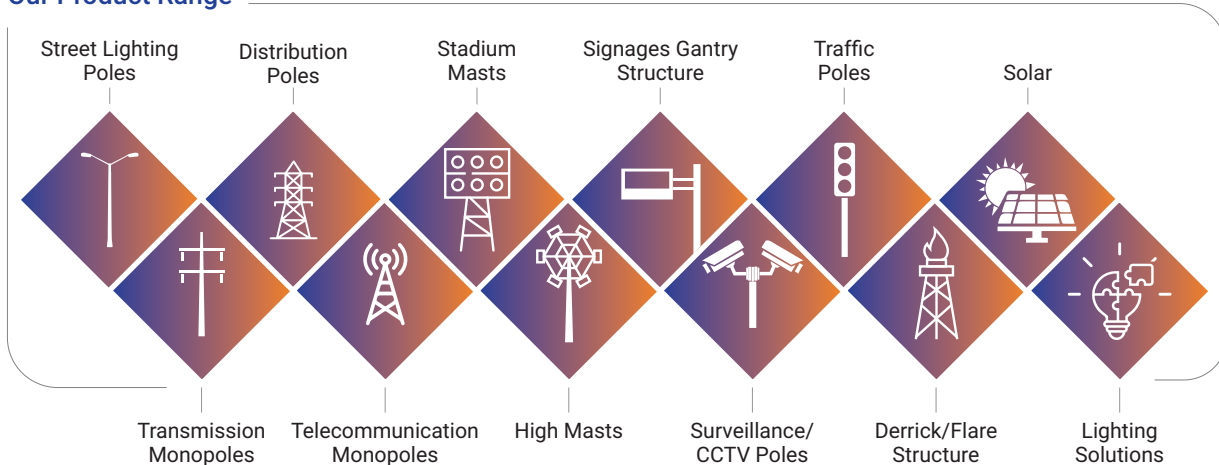
Transrail is a leading turnkey engineering, procurement and construction (EPC) company with primary focus on power transmission and distribution business with 4 decades of experience in Construction and Manufacturing. With its headquarters in India, it is a global enterprise with a footprint in 63 countries across 5 continents. It provides turnkey solutions from Designing, Engineering, Supply, Manufacture, Construction, Testing services across all its business verticals which includes Transmission Lines, Substations, Renewables, Railways, Civil Construction, and Pole & Lighting. It has more than 2700+ employees on its roll. As part of Power T&D business, Transrail has large-scale manufacturing facilities in India for Galvanized Lattice Towers, Overhead Conductors and Galvanized Monopoles in addition to a well-accredited Tower testing facility.

Poles & Lighting

Emerged as the leading and most recognized names in the lighting infrastructure industry.

Exports: USA, Qatar, The Gambia, Zambia.

Our Product Range





- 1 Dust Proof (IP6X) Test (Dust Chamber)
- 2 Water Proof (IP5X) Test (Jet Water Spray)
- 3 Impact Resistance (IK) Test (Pendulum Drop Apparatus)




**National Accreditation Board for
Testing and Calibration Laboratories**

CERTIFICATE OF ACCREDITATION

TRANSRAIL LAB, TRANSRAIL LIGHTING LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

SURVEY NO. 227/1/1/U/1, VILLAGE KHERDI, KHANVEL KHERDI ROAD, SILVASSA, DADRA AND NAGAR HAVELI AND DAMAN AND DIU, INDIA

in the field of

TESTING

Certificate Number: TC-12638 Valid Until: 22/11/2029

Issue Date: 23/11/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: TRANSRAIL LIGHTING LIMITED

Signed for and on behalf of NABL




Anuja Anand
 Director


Dr. Ramanand N. Shukla
 Chief Executive Officer

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POLES AND STRUCTURE

TRANSRAIL

INTEGRATED POWER TRANSMISSION LIGHTING AND SOLAR SOLUTIONS

Octagonal and Conical Poles
Decorative Poles and Brackets
High Masts
Stadium Lighting Masts
Flag Masts
Railway & Metro over head line
Structures

Transmission & Distribution Monopoles
LED and Solar Lighting
Traffic and Antenna, CCTV Poles
Signage Gantries
GI Engineered Structures
Sundry Galvanization



OUR IN-HOUSE CAPABILITIES



Design



Development



Manufacturing



Testing



Supply & EPC Civil, T&D,
Lighting, Electrical and Projects

DESIGN, DEVELOPMENT & QUALITY

Over the years, TRANSRAIL DD & Q wing have invested and developed in house capabilities in Quality design, Innovation, and manufacture of project specific, customized products, solutions and services from concept design to engineering and manufacture of T & D Structures, Monopole, High Masts, Sports Lighting Masts, Lighting Poles, Lighting and many such products used widely in todays Urban and Rural infrastructure projects.

TRANSRAIL Structural design team use globally accepted design Softwares viz. PLS_Pole, PLS_CADD, STAAD PRO CE and inhouse developed calculation and validation tools adopting design procedure to CEI/IEC 60826, ASCE 48-11, other national and international codes and Calculation of wind pressure IS 802 Part 3-1987 and other related international standards.



GALVANIZED OCTAGONAL AND CONICAL STREET LIGHTING POLES

TRANSRAIL designs and manufactures a wide range of flanged mounted type hot dip Galvanized Octagonal, Conical and Swaged poles in its modern plant.

Manufactured using HR Coils of Steel Grade conforming to BS EN 10025, Cold cut and sheared by CNC machines ensuring accurate sizes, dimensions and thickness from 3mm to 6mm.

Automated Fabrication, SAW deformity free welding for sleek and aesthetic appearance and finish.

Single Section Construction up to 14m of varying thickness, conicity and cross section.

Hot dip Galvanized with pre-treatment of 7 tank processes conforming to BS EN ISO 1461.

Poles are provided with Vandal resistant and weatherproof doors to facilitate easy access of junction box for maintenance.



DECORATIVE STREET LIGHTING POLES

TRANSRAIL have developed special designs for Tubular and Conical curved poles to meet the requirements of today's Contemporary and modern road designs and blend with Urban cityscape, Architectural forms and designs as per project needs to satisfy Smart City requirements.

Manufactured using HR Coils, Seamless tubes, sheared by CNC, Plasma cutting and bending machines ensuring accurate forms, sizes, dimensions and thickness from 3mm to 6mm.

Multi section, Single and Twin arms for Decorative and functional street lights up to 14m.

Hot dip Galvanized with pre-treatment of 7 tank processes conforming to BS EN ISO 1461.

Surface final finish of PU Painted or Powder Coated with a wide range of Colour and finish options to meet project requirements.



HIGH MAST LIGHTING SYSTEMS

TRANSRAIL designs and manufactures BEST in class HIGH MAST lighting systems from 10m to 50m for India and Global markets widely used in exterior lighting applications in Cities, Industries, Highways, Ports, etc.

Fabricated Masts sections are continuously tapered 16/18/20 sided cross sections for dove-tailed assembly conforming to BS EN 10025, customer specifications and design as per IS 875 pt III 2015, TR7, PLG 07 and other international design standards. WIND TUNNEL tested design and type tested 30m High Mast for full scale loading.

HR Coils are uncoiled, cold cut and sheared by CNC machines for accuracy and no stress in the plate.

Fabricated mast sections are single dip hot dip galvanized in a 14.3m galvanizing bath for galvanization thickness as per BS EN ISO 1461 or customer specification.

Head frame Capping section houses pulley arrangement with guides and stops for safe operation of wire-ropes.

Hot dip galvanized Tubes and MS Channel are used for Lantern carriage designs as per Flood lights quantities and arrangements.

The bottom segment has designed base plates and strengthening gussets as per IS 2062 and IS 226.

Vandal resistant, weatherproof lockable access door at the mast base for parts like Winch, electrical Motor, internal Trailing Cable, Control Switch.

LM6 alloy pulley system with special self-lubricated bush-bearings on SS shafts.

Wire-ropes (GI or SS) of required lengths are with copper alloy talurits and steel thimbles for ease of assembly.

Heavy duty single/double drum WINCH, powered ELECTRIC MOTOR.

EPR/PCP sheathed copper trailing cable with plug-socket arrangement designed (Optional Telecom and Power Cable combination and arrangement available).

Quality accessories viz. Foundation bolts, anchor plates, etc by TRANSRAIL ensures safe installation.

Specially designed additional accessories used to avoid entanglement between wire ropes and cables.

We also provides the latching System with the following features:

Docking & self locking system of lantern carriage with light fitting in highmast top.

Latching system is provided with the centering system which ensures smooth movement of lantern carriage assembly without jerks & Operates smoothly without slippage / snapping of wire rope.

It releases tension on the wire rope under docked condition & hence improves life & performance of wire rope / winch.

It eliminates the chances of accidents due to docking of the headframe at the top.



APPLICATIONS

- Exterior Areas
- Security Lighting
- Airport Apron Lighting
- Sea Port Lighting
- Container & Railway Yards
- Metro Depots, CAR Parking
- City Junctions & Flyovers
- Highways & Expressways, etc

Supplied for
Punjab Mandi Board



STADIUM LIGHTING MAST

TRANSRAIL Structural and Design teams have domain knowledge, expertise and decades professional experience for Standard Monopole SPORTS LIGHTING MASTS and custom designs to integrate with Stadium Architecture is the hallmark of TRANSRAIL SPORTS LIGHTING HIGH MAST systems for Small, Medium size Sports field and Professional Sports Stadium and Complexes.

HEAD FRAME

Raising lowering, fixed straight/tilted with operator platform for Sports Light installations as per Lighting design.

MAINTENANCE ACCESS OPTIONS

Step bolt arrangement for Mast heights up to 15m
Monkey ladders with safety cage up to 30m
Motorized man rider carriage lift Indian and Imported design up to 70m

KEY INSTALLATIONS

MCA Cricket Stadium, Pune
Pallekele Cricket Stadium, Sri Lanka
Karyvattom Stadium, Kerla
Chinnaswamy Stadium, Bangalore

FEATURES

Mast sections-heavy duty type, Polygonal hot dip galvanized, with stress fit or flange plate design up to 65m.

Masts are fabricated from the best quality HR Coils conforming to BS EN 10025 and customer specifications and structural design meeting.

IS 875 pt III 2015, Tr7, PLG 07 and International design standards HR Coils are uncoiled, cold cut and sheared by CNC machines for accuracy and no stress in the plate.

Fabricated mast sections are single dip hot dip galvanized in a 14.3m galvanizing bath for galvanization thickness as per BS EN ISO 1461 or customer specification.



Karyvattom Stadium, Kerla



MCA Cricket Stadium, Pune

Transrail have supplied Stadium Masts for various International Stadiums within India and abroad.

FLAG MAST

Flag masts are a sign of national pride and identity and TRANSRAIL has a complete system offering up to 70m (higher heights on request).

Typical flag mast consists of Mast, raising and lowering arrangement, National Flag, LED flood lights for night time flag illumination.

Flag mast can be installed on standard foundation or Concrete piles to ensure shorter installation time and enable easier restoration of the area.

Structural design complies with PLG 07/ANSI/NAAMM FP1001-07/IS 800/ IS 875 and is customized to project specifications and requirements.



TRANSMISSION & DISTRIBUTION MONOPOLES

Product range includes Low voltage, Medium voltage upto 33kV and High voltage up to 220kV (higher ratings on request).

FEATURES AND ADVANTAGES

Consists of hot dip galvanized Polygonal continuously tapered cross sections having polygonal cross arms, with Longitudinal welding.

Structures fabricated in Polygonal cross sections continuously tapered available in many sections upto 55m. Section assembly by means of stress fit telescopic joints or flanged plate arrangement.

Designs achieved with reduced and lower base makes it ideal for power transmission in URBAN and INDUSTRIAL applications with improved flexibility in power line routing.

Quick and easy installation at site.

TRANSRail Structural design team use globally accepted design Softwares viz. PLS_Pole, PLS_CADD, STAAD PRO CE and inhouse developed calculation and validation tools adopting Design procedure to CEI/IEC 60826, ASCE 48-11, other national and international codes and Calculation of wind pressure IS 802 Part 3 – 1987 and other related international standards.

We have supplied Monopole structure to various utilities in India & abroad like:

- GETCO ● UPPTCL ● MPKVCL ● TANTRANSCO ● MAHATRANSCO
- PGCIL ● RRVNL

In-house structure design and NABL certified testing facility.



TELECOM ANTENNA MONOPOLES

Telecommunications hot dip galvanized monopoles are alternative to conventional telecom towers and widely adopted and used in GSM/Microwave communication antenna.

Structural design complies with ANSI/TIA -222-G and is customized to project specifications and requirements.



TRAFFIC & SURVEILLANCE POLES

Hot dip galvanized poles in round, octagonal, 16 to 20 sided cross sections with extended bracket or Cantilever design arms to accommodate needs of junctions, intersections to control the traffic.

Minor, Major and Highways roads are ideal choices for meeting today's ever growing traffic needs & monitoring the movement.

Manufactured and built to the exact specifications of local bodies and traffic department needs, easy to install SIGNAL LIGHTS with optional provision for IOT and Smart City devices, CCTV & ANPR cameras.

Structural design complies with PLG09/AASHTO/IS 800/IS 875 and is customized to project specifications and requirements.

Security and surveillance poles are precisely designed and fabricated poles meeting stringent standards as performance of Cameras and other surveillance depends on the deflection criteria and flexibility provided on these poles. They are generally used in areas that require safety and monitoring of a certain location or position. Standard pole heights are 4.0m to 15.0m depending on customer's requirements.

TRANSRAIL capabilities also exist in special designs for Security lights and Defense installations.

Structural design complies with PLG 07/IS 800/IS 875 and is customized to project specifications and requirements.



SIGNAGE GANTRIES

Gantries and cantilever structures for signages can be designed, fabricated & installed as per the requirement of the client. These structures are designed by our structural engineer and made of flanged, high tensile galvanized polygonal pole sections bolted together giving a high quality aesthetic view and very high durability over other types of structures. TRANSRAIL LIGHTING has designed, manufactured, supplied and installed one of the largest gantry (110 m) in India.



Structural design complies with AASHTO / IS 800 / IS 875 and is customized to projects specifications and requirements.

Also, we have inhouse shop for manufacturing retro-reflective signages confirming to MORTH specification & IRC-67.

RAILWAY & METRO OVER HEAD LINE STRUCTURE

TRANSRAIL inhouse capabilities and expertise in developing pre-engineered and fabricated hot dip galvanized customized railway power line Structures and Portals is a good replacement of imported systems.

Use globally accepted design Softwares viz. PLS_Pole, PLS_CADD, STAAD PRO CE and inhouse developed calculation and validation tools adopting design procedure to RDSO compliant, BSEN 50119, other national and international codes and Calculation of wind pressure IS 875 Part 3 and other related international standards.

METRO PORTALS

Conical tubular Portal structures are Sleek in appearance, aerodynamic in design with no human reach on TOP of the PORTALS, Resting and nesting of Birds not possible.

Small footprint of conical Tubular portals w.r.t LATTICE design ideal for BRIDGES and ELEVATED Railway/METRO lines.

Vertical Conical Pole (Mast) manufactured using high tensile sheets of ASTM A572-Gr.65 or Equivalent material grade (Yield Strength-450MPa) having single longitudinal weld using specially developed in house fabrication techniques.

Precision design and engineering for Boom of Portal manufacture of sufficient material thickness ensures perfect fitment, meeting critical design loads and other project requirements of Railway / Metro over head line requirements.

RAILWAY OVER HEAD LINE STRUCTURES

Standard LATTICE GIRDER Designs as per IS 800:2007 for Angles and Bracing with material specifications as per IS 2062, hot dip Galvanized of required heights and booms are fabricated to meet users and project requirements.

We are having RDSO approval of our plant to manufacture Railway Portals & Structures.



Nagpur Metro Rail Project



Nagpur Metro Rail Project



MUMBAI-AHMEDABAD HIGH-SPEED RAIL (BULLET TRAIN) PROJECT

Transrail Lighting Limited is proud to be associated with the prestigious Mumbai-Ahmedabad High-Speed Rail (MAHSR) Project, India's first bullet train corridor and a landmark step in the nation's transportation infrastructure journey.

As a trusted partner to the project, Transrail is responsible for the manufacturing, testing and supply of critical Overhead Electrification (OHE) Poles and Cross Arms, engineered to meet the stringent requirements of high-speed rail operations. All structures are manufactured, inspected and tested in compliance with the Japanese Industrial Standards (JIS), among the most rigorous engineering standards globally.

In a first-of-its-kind achievement for India, Transrail successfully manufactured and type-tested OHE Poles and Cross Arms under the supervision of Japanese Engineers, NHSRCL and SLT representatives, achieving Zero Permanent Deflection during ultimate load testing. This milestone highlights the company's engineering excellence and capability to deliver world-class solutions for safety-critical infrastructure.

Further strengthening its quality credentials, all materials are tested at Transrail's NABL - accredited laboratory, the only facility in India certified to conduct testing as per JIS standards. The company has also supplied over 11,500 OHE poles for the project, demonstrating its strong manufacturing capabilities, robust quality systems and commitment to timely execution.

Key Highlights

First Indian manufacturer to successfully type-test OHE Poles and Cross Arms as per JIS standards

Zero Permanent Deflection achieved during testing

11,500+ OHE Poles supplied for the project

India's only NABL-accredited laboratory certified for JIS-standard testing

Precision Cross Arm bend tolerance of $\pm 0.5^\circ$

Advanced galvanization coating (77-300 microns) for superior durability and corrosion resistance

Through its contribution to India's first bullet train project, Transrail continues to showcase the strength of Indian engineering and manufacturing on a global stage while supporting the development of next-generation transportation infrastructure.



GI ENGINEERED STRUCTURES

Our structural engineered welding line is capable of taking up custom made jobs which require accurate engineering, high quality galvanization and testing. GI structures like flare stacks, solar-panel structures etc. can be undertaken by our capable team on a design, engineering, manufacturing and supply basis. Our sales representatives will be happy to contact you for any inquiries.



SUNDRY GALVANISATION

Our world class galvanization plant has 14.3m galvanising bath with automated PID temperature controllers, fluxing control and high velocity burners. Quenching operation is done at automatically controlled temperatures with a special dichromatic solution. Pretreatment is done in 7 (+3) tanks of 14.3m length with automated maintenance of pH levels. Specialised forced cooled drying oven is used to ensure good finish.



STANDARD CONICAL POLES

Hot-dip galvanised conical poles fabricated from HT steel confirming to BS EN 10025, S-355 JO. (TAPER 12MM/M)

Sr. No	Height Of Pole (mm)	Type (mm)	Top (A/F) (mm)	Bottom (A/F) (mm)	Thickness (mm)	Base Plate (mm)	Pcd (mm)	Door (mm)	J Type Foundation Bolts (mm)
1	3000	---	65	101	3	180X180X12	180	500 X 500	M12 X 450
2	4000	---	65	113	3	180X180X12	180	500 X 500	M12 X 450
3	5000	---	65	125	3	200X200X12	200	500 X 500	M12 X 450
4	6000	---	75	147	3	225X225X12	225	500 X 500	M16 X600
5	7000	---	75	159	3	250X250X16	250	500 X 500	M20 X600
6	8000	---	75	171	3	250X250X16	250	500 X 500	M20 X600
7	9000	---	75	183	3	275X275X16	275	500 X 500	M20 X600
8	10000	---	85	205	3	300X300X20	300	500 X 500	M20 X750
9	11000	---	85	217	3	320X320X20	320	500 X 500	M24 X750
10	12000	---	85	229	3	320X320X20	350	500 X 500	M24 X750
11	14000	---	85	253	4	350X350X20	350	500 X 500	M24 X750

Hot-dip galvanised conical poles (Light Duty) fabricated from HT steel confirming to BS EN 10025, S-355 JO. (TAPER 15MM/M)

Sr. No	Height Of Pole (mm)	Type (mm)	Top (A/F) (mm)	Bottom (A/F) (mm)	Thickness (mm)	Base Plate (mm)	Pcd (mm)	Door (mm)	J Type Foundation Bolts (mm)
1	3000	TLCL3030	65	110	3	200X200X12	200	3192.00	M12 X 450
2	4000	TLCL3040	65	125	3	200X200X12	200	4236.00	M12 X 450
3	5000	TLCL3050	65	140	3	225X225X16	225	5705.00	M16X 450
4	6000	TLCL3060	65	155	3	250X250X16	250	7133.00	M16X 600
5	7000	TLCL3070	65	170	3	250X250X16	250	8473.00	M20 X600
6	8000	TLCL3080	65	185	3	275X275X16	250	10096.00	M20 X600
7	9000	TLCL3090	65	200	3	300X300X20	275	12146.00	M20 X750
8	10000	TLCL3100	70	220	3	320X320X20	320	14590.00	M24 X750
9	11000	TLCL3110	70	235	3	320X320X20	350	16548.00	M24 X750
10	12000	TLCL3120	70	250	3	350X350X20	350	19004.00	M24 X750

Hot-dip galvanised conical poles (Medium Duty) fabricated from HT steel confirming to BS EN 10025, S-355 JO. (TAPER 15MM/M)

Sr. No	Height Of Pole (mm)	Type (mm)	Top (A/F) (mm)	Bottom (A/F) (mm)	Thickness (mm)	Base Plate (mm)	Pcd (mm)	Rate (mm)	J Type Foundation Bolts (mm)
1	3000	TLCM3030	70	115	3	200X200X12	200	3333.00	M16X 450
2	4000	TLCM3040	70	130	3	200X200X12	200	4421.00	M16X 450
3	5000	TLCM3050	70	145	3	225X225X12	225	5737.00	M16X 600
4	6000	TLCM3060	70	160	3	225X225X12	225	7108.00	M16X 600
5	7000	TLCM3070	70	175	3	240X240X12	240	8783.00	M20 X600
6	8000	TLCM3080	70	190	3	270X270X16	270	10406.00	M20 X600
7	9000	TLCM3090	70	205	3	280X280X16	280	12035.00	M20 X600
8	10000	TLCM3100	70	220	3	300X300X16	300	14034.00	M20 X750
9	11000	TLCM3110	80	245	3	320X320X16	320	17121.00	M20 X750
10	12000	TLCM3120	80	260	3	350X350X20	350	20037.00	M24 X750
11	14000	TLCM4140	90	300	4	380X380X20	380	34214.00	M24 X750

STANDARD DIMENSIONS OF OCTAGONAL POLE

POLE	3Mtr -A	4Mtr -A	5Mtr-A	6Mtr-A	7Mtr-A	7Mtr-B	7Mtr-C	8Mtr-A	8Mtr-B	8Mtr-C
Material of Pole	High Tensile Sheet Plates of Grade -S355JO/JR As per BSEN10025 /Equivalent									
Height of Pole	3m	4m	5m	6m	7m	7m	7m	8m	8m	8m
A/F -Top	70	70	70	70	70	100	90	100	70	70
A/F -Base	130	130	130	135	135	200	180	200	135	155
Material Thk in mm	3	3	3	3	3	3	3	3	3	3
Section Length	3000	4000	5000	6000	7000	7000	7000	8000	8000	8000
BASE FLANGE & BOLT DETAILS										
Base flange size	200	200	200	200	225	275	260	290	225	260
Base flange Thk	12	12	12	12	16	16	16	16	16	16
Bolt Details	4-M16	4-M16	4-M16	4-M16	4-M20	4-M20	4-M20	4-M24	4-M20	4-M20
Bolt Length	450	450	450	600	600	700	-	-	750	750
Bolt PCD	200	200	200	200	220	275	260	290	220	260
Door	500x500	500x500	500x500	500x500	500x500	500x500	500x500	500x500	500x500	500x500
MATERIAL PROTECTION										
Metal Protection treatment of fabricated mast section	Single Hot Dip Galvanized									
Thickness of Galvanization	As per BS-1461 (Avg- 70 Microns to 85 Microns)									
Applicable Standatds	DESIGN OF POLE IS AS PER BSEN-40-3									

POLE	9Mtr-A	9Mtr-B	9Mtr-C	10Mtr-A	10Mtr-B	11Mtr -A	11Mtr-B	12Mtr-A	12Mtr-B	14Mtr
Material of Pole	High Tensile Sheet Plates of Grade -S355JO/JR As per BSEN10025 /Equivalent									
Height of Pole	9m	9m	9m	10m	10m	11m	11m	12m	12m	14m
A/F -Top	70	70	100	70	70	90	90	90	90	90
A/F -Base	155	175	200	175	175	210	190	240	210	270
Material Thk in mm	3	3	3	3	4	3	4	3	4	4
Section Length	9000	9000	9000	10000	10000	11000	11000	12000	12000	14000
BASE FLANGE & BOLT DETAILS										
Base flange size	260	275	275	275	275	300	280	325	300	350
Base flange Thk	16	16	16	16	20	20	20	20	20	20
Bolt Details	4-M24	4-M24	4-M24	4-M24	4-M24	4-M24	4-M24	4-M24	4-M24	4-M30
Bolt Length	750	750	750	750	750	750	750	850	850	850
Bolt PCD	260	275	275	275	275	300	280	325	300	350
Door	500x500	500x500	500x500	500x500	500x500	500x500	500x500	500x500	500x500	500x500
MATERIAL PROTECTION										
Metal Protection treatment of fabricated mast section	Single Hot Dip Galvanized									
Thickness of Galvanization	As per BS-1461 (Avg- 70 Microns to 85 Microns)									
Applicable Standatds	DESIGN OF POLE IS AS PER BSEN-40-3									

STANDARD DIMENSIONS OF HIGHMAST

Catlogue No	Height	Top A/F	Bottom A/F	No of Section	Top Section		Middle Setion		Bottom Section		Overlap			
					Length	Thk	Length	Thk	Length	Thk	Top	Bottom		
12M HIGH MAST DETAILS														
TLL-HM-12-360-100-3 (12 SIDED)	12 Mtr (TC-1/2) Life-25 Years	100	360	1	12000	3								
TLL-HM-12-360-150-3(20 SIDED)		150	360	1	12000	3								
TLL-HM-12-360-100-3-3 (12 SIDED)		100	360	2	6250	3			6250	3		500		
TLL-HM-12-360-150-3-3 (20 SIDED)		150	360	2	6250	3			6250	3		500		
12.5 M HIGH MAST DETAILS														
TLL-HM-12.5-360-100-3-3(12 SIDED)	12.5 M (TC-1/2)	100	360	2	6500	3			6500	3		500		
TLL-HM-12.5-360-150-3-3(20 SIDED)	Life-25 Years	150	360	2	6500	3			6500	3		500		
16M HIGH MAST DETAILS														
TLL-HM-16-360-150-3,3 (EQS)	16 Mtr (TC-2) Life-25 Years 16 Mtr (TC-1/2) Life-25 Years	150	360	2	8250	3			8250	3		500		
TLL-HM-16-360-150-3,3		150	360	2	5420	3			10980	3		400		
TLL-HM-16-360-150-4,3 (EQS)		150	360	2	8250	3			8250	4		500		
TLL-HM-16-360-150-4,3		150	360	2	5420	3			10980	4		400		
TLL-HM-16-410-150-3,3 (EQS)		150	410	2	8250	3			8250	3		500		
TLL-HM-16-410-150-3,3		150	410	2	5520	3			10980	3		500		
TLL-HM-16-410-150-4,3 (EQS)		150	410	2	8250	3			8250	4		500		
TLL-HM-16-410-150-4,3		150	410	2	5520	3			10980	4		500		
TLL-HM-16-460-150-4,3 (EQS)		150	460	2	8250	3			8250	4		500		
TLL-HM-16-460-150-4,3		150	460	2	5520	3			10980	4		500		
TLL-HM-16-460-150-5,4 (EQS)		150	460	2	8250	4			8250	5		500		
TLL-HM-16-460-150-5,4		150	460	2	5520	4			10980	5		500		
20M HIGH MAST DETAILS														
TLL-HM-20-360-150-3,3		20 Mtr (TC-1/2) Life-25 Years	150	360	2	9520	3			10980	3		500	
TLL-HM-20-360-150-4,3	150		360	2	9520	3			10980	4		500		
TLL-HM-20-410-150-3,3	150		410	2	9520	3			10980	3		500		
TLL-HM-20-410-150-4,3	150		410	2	9520	3			10980	4		500		
TLL-HM-20-460-150-4,3	150		460	2	9620	3			10980	4		600		
TLL-HM-20-460-150-5,4	150		460	2	9620	4			10980	5		600		
25M HIGH MAST DETAILS														
TLL-HM-25-460-150-4,4,3	25 Mtr (TC-1/2) Life-25 Years	150	460	3	4040	3	10980	4	10980	4	400	600		
TLL-HM-25-460-150-4,4,3 (Eqs)		150	460	3	8750	3	8750	4	8750	4	550	700		
TLL-HM-25-460-150-5,4,3		150	460	3	4040	3	10980	4	10980	5	400	600		
TLL-HM-25-460-150-5,4,3 (Eqs)		150	460	3	8750	3	8750	4	8750	5	550	700		
TLL-HM-25-540-150-5,4,3		150	540	3	4240	3	10980	4	10980	5	500	700		
TLL-HM-25-540-150-5,4,3 (Eqs)		150	540	3	8800	3	8800	4	8800	5	600	800		
TLL-HM-25-540-150-5,4,4		150	540	3	4240	4	10980	4	10980	5	500	700		
TLL-HM-25-540-150-5,4,4 (Eqs)		150	540	3	8800	4	8800	4	8800	5	600	800		
30M HIGH MAST DETAILS														
TLL-HM-30-460-150-5,4,3	30 Mtr (TC-1/2) Life-25 Years	150	460	3	9240	3	10980	4	10980	5	500	700		
TLL-HM-30-540-150-4,4,3		150	540	3	9290	3	10980	4	10980	5	500	750		
TLL-HM-30-540-150-5,4,3		150	540	3	9290	3	10980	4	10980	5	500	750		
TLL-HM-30-540-150-5,4,4		150	540	3	9290	4	10980	4	10980	5	500	750		
TLL-HM-30-540-150-6,5,4		150	540	3	9290	4	10980	5	10980	6	500	750		
TLL-HM-30-610-150-5,4,3		150	610	3	9440	4	10980	5	10980	5	600	800		
TLL-HM-30-610-150-5,4,4		150	610	3	9440	4	10980	5	10980	6	600	800		
TLL-HM-30-610-150-5,5,4		150	610	3	9440	4	10980	5	10980	5	600	800		
TLL-HM-30-610-150-6,5,4		150	610	3	9440	4	10980	5	10980	6	600	800		

***Note- we have capped the design considering max 24 luminaires (trfl-400w/ 350w), please check and confirm with the design team.
For design with the different fitting & no's , please check and confirm with the design team. Orange highlighted rows use ts-600 gr bolt.

	Bolt	Bolt Details			Base Flange		Door Details		NO OF LUMINARIES (TRFL 04802)			Winch	Motor
	P.C.D	Nos	Dia	Length	Dia	Thk	Width	Depth	WIND SPEED				
									44 m/sec	47 m/sec	50 m/sec		
12M HIGH MAST DETAILS													
	445	4	M-24	850	520	20	225	1050	12 Sym	10 Sym	8 Sym	350 kg	0.75/1 HP
	445	4	M-24	850	520	20	225	1050	12 Sym	10 Sym	8 Sym	350 kg	0.75/1 HP
	445	4	M-24	850	520	20	225	1050	12 Sym	10 Sym	8 Sym	350 kg	0.75/1 HP
	445	4	M-24	850	520	20	225	1050	12 Sym	10 Sym	8 Sym	350 kg	0.75/1 HP
12.5 M HIGH MAST DETAILS													
	445	6	M-24	850	520	20	225	1050	16 Sym	14 Sym	12 Sym	350 kg	0.75/1 HP
	445	6	M-24	850	520	20	225	1050	18 Sym	16 Sym	12 Sym	350 kg	0.75/1 HP
16M HIGH MAST DETAILS													
	445	6	M-24	850	520	25	250	1200	16 Sym	12 Sym	10 Sym	350 kg	0.75/1 HP
	445	6	M-24	850	520	25	250	1200	16 Sym	12 Sym	10 Sym	350 kg	0.75/1 HP
	445	6	M-24	850	520	25	250	1200	18 Sym	14 Sym	12 Sym	350 kg	0.75/1 HP
	445	6	M-24	850	520	25	250	1200	18 Sym	14 Sym	12 Sym	350 kg	0.75/1 HP
	490	8	M-24	850	570	25	250	1200	20 Sym	16 Sym	14 Sym	500 kg	0.75/1 HP
	490	8	M-24	850	570	25	250	1200	20 Sym	16 Sym	14 Sym	500 kg	0.75/1 HP
	490	8	M-24	850	570	25	250	1200	24 Sym	22 Sym	18 Sym	500 kg	0.75/1 HP
	490	8	M-24	850	570	25	250	1200	24 Sym	22 Sym	18 Sym	500 kg	0.75/1 HP
	570	8	M-30	850	670	25	300	1200	24 Sym (***)	24 Sym (***)	20 Sym	>500 kg	1.0/1.5 HP
	570	8	M-30	850	670	25	300	1200	24 Sym (***)	24 Sym (***)	20 Sym	>500 kg	1.0/1.5 HP
	570	8	M-30	850	670	30	300	1200	24 Sym (***)	24 Sym (***)	20 Sym	>500 kg	1.0/1.5 HP
	570	8	M-30	850	670	30	300	1200	24 Sym (***)	24 Sym (***)	20 Sym	>500 kg	1.0/1.5 HP
20M HIGH MAST DETAILS													
	445	8	M-24	850	520	25	250	1200	12 Sym	8 Sym	6 Sym	350 kg	0.75/1 HP
	445	8	M-24	850	520	25	250	1200	16 Sym	12 Sym	10 Sym	350 kg	0.75/1 HP
	500	8	M-30	850	590	25	250	1200	14 Sym	10 Sym	8 Sym	500 kg	0.75/1 HP
	500	8	M-30	850	590	25	250	1200	18 Sym	16 Sym	12 Sym	500 kg	0.75/1 HP
	570	8	M-30	850	670	25	300	1200	24 Sym	20 Sym	16 Sym	750 kg	1.0/1.5 HP
	570	8	M-30	850	670	30	300	1200	24 Sym (***)	24 Sym (***)	24 Sym	750 kg	1.0/1.5 HP
25M HIGH MAST DETAILS													
	570	8	M-30	850	670	25	300	1200	18 Sym	16 Sym	10 Sym	>500 kg	1.0/1.5 HP
	570	8	M-30	850	670	25	300	1200	18 Sym	16 Sym	10 Sym	>500 kg	1.0/1.5 HP
	570	8	M-30	850	670	30	300	1200	20 Sym	18 Sym	12 Sym	>500 kg	1.0/1.5 HP
	570	8	M-30	850	670	30	300	1200	20 Sym	18 Sym	12 Sym>500 kg	1.0/1.5 HP	
	635	12	M-30	850	730	30	300	1200	24 Sym (***)	24 Sym (***)	20 Sym	>750 kg	1.5/2.0 HP
	635	12	M-30	850	730	30	300	1200	224 Sym (***)	22 Sym	20 Sym	>750 kg	1.5/2.0 HP
	635	12	M-30	850	730	30	300	1200	24 Sym (***)	24 Sym (***)	24 Sym	>750 kg	1.5/2.0 HP
	635	12	M-30	850	730	30	300	1200	24 Sym (***)	24 Sym (***)	24 Sym	>750 kg	1.5/2.0 HP
30M HIGH MAST DETAILS													
	570	12	M-30	850	670	30	300	1200	8 Sym/6 Asym	-	-	>500 kg	1.0/1.5 HP
	635	12	M-30	850	730	30	300	1200	16 Sym	12 Sym	8 Sym	>500 kg	1.0/1.5 HP
	635	12	M-30	850	730	30	300	1200	16 Sym	12 Sym	8 Sym	>500 kg	1.0/1.5 HP
	635	12	M-30	850	730	30	300	1200	15 Sym	16 Sym	12 Sym	>750 kg	1.5/2.0 HP
	635	12	M-30	850	730	30	300	1200	24 Sym(***)	22 Sym	16 Sym	>750 kg	1.5/2.0 HP
	740	12	M-30	850	840	30	300	1200	22 Sym	20 Sym	18 Sym	>750 kg	1.5/2.0 HP
	740	12	M-30	850	840	30	300	1200	24 Sym	24 Sym	20 Sym	>750 kg	1.5/2.0 HP
	740	12	M-30	850	840	30	300	1200	24 Sym(***)	24 Sym	22 Sym	>750 kg	1.5/2.0 HP
	740	12	M-30	850	840	30	300	1200	24 Sym(***)	24 Sym	22 Sym	>750 kg	1.5/2.0 HP

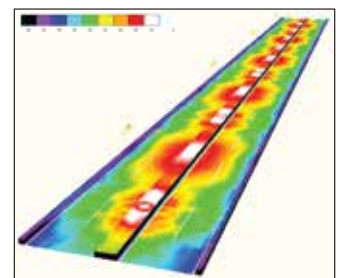
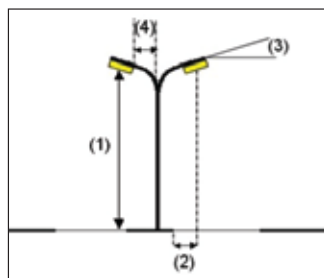
INNOVATIVE AND SMART SOLUTION FOR STREET LIGHTING

Road lighting not only reduces the risk of traffic accidents but also their safety. Transrail Lighting is always developing smart and innovative LED street lighting solutions that improve and enhance people's lives. We aim to improve lighting whilst reducing power consumption and enhancing our experience of light. Transrail provides systems that increase the livability and connectivity of our outdoor solutions.

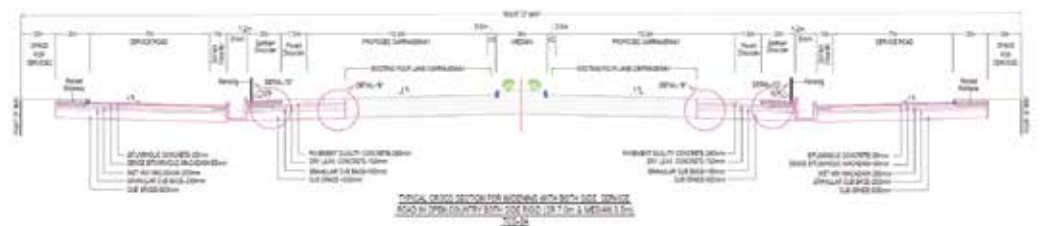


Arrangement	On Median
Pole Distance	35.000 m
Mounting Height (1)	9.000 m
Height	8.950 m

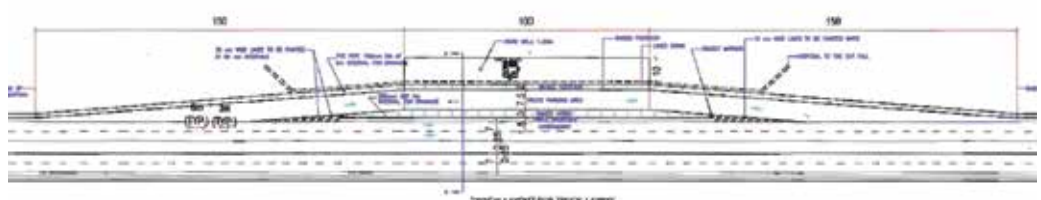
Overhang (2)	0.500 m
Boom Angle (3)	0.00
Boom Length (4)	1.500 m



Main Carriageway



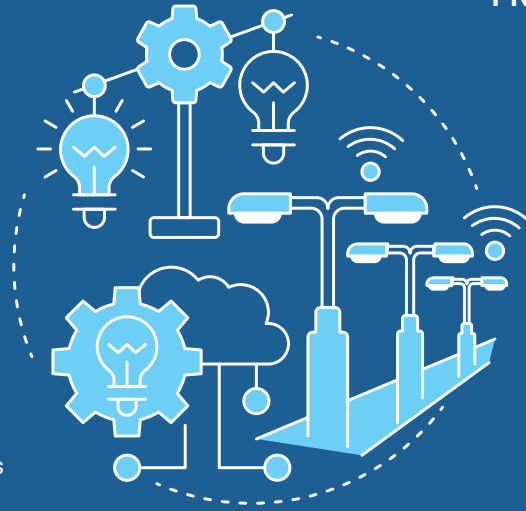
Bus Bays & Truck Lay Bye



IoT STREET LIGHT

The Internet appears everywhere in the world, it is primarily a connection between people. INTERNET OF THINGS (IoT) is a plan to connect things also using the same medium

Introducing IoT Streetlight, an intelligent solution to manage all your street lighting needs. IoT street lights can be remotely monitored and controlled by any device having an internet access, program your street lights for changing situations, monitor individual parameters, control dimming, manage assets, generate actionable reports, analyze, optimize and much more.



IOT: PEOPLE CONNECTING WITH THINGS

The IoT is intended to extend data collection, smart networking, predictive analytics and deep optimization across interconnected people and most every manner of physical objects and information technology (IT) platforms



TRANSRAIL IoT STREET LIGHTING

This Smart Streetlight Solution has advanced technologies, remote monitoring and control along with substantial operational electricity saving which helps in reducing the energy consumption, maintenance & manpower cost and increasing efficiency.

Analog dimmable driver used is specially designed to have built-in surge voltage, open/short circuit protections.

External surge protection provided for additional safety.

RF antenna is mechanically integrated with driver cover.

Antenna is connected with internal dimmable node, housed in the driver compartment.





LIGHTING MANAGEMENT SOLUTION

UNIFIED END-TO-END PLATFORM FOR MANAGING CITYWIDE LIGHTS

Remote Monitoring Asset Management Light Management Energy Saving

KEY FEATURES

LED driver integrated connectivity module

Plug n play solution for connecting lights to the cloud without any onsite commissioning or provisioning efforts

Supports On/Off, dimming, energy metering and fault detection features

Single dashboard to view millions of Lights under different projects

Schedule Manager for better energy saving

Unified portal and API integration support for 3rd party apps like Smart City App

AGILE COMMUNICATION HARDWARE

Interface with any type of LED light driver irrespective of wattage and get required Light data on a single platform within few seconds!

MULTI SENSOR INTEGRATION SUPPORT

View data from driver as well as from third party sensors like motion sensor, lux sensor etc.



A COMPREHENSIVE SOLUTION READY FOR SMART CITY



Communication Hardware (3GPP Compliant)

Offering:

NB-IoT NIC card or module as per business need

FOTA support

Integrate with any type of LED driver

Industrial grade embedded SIM support



NB-IoT Connectivity

Offering:

Pan India NB-IoT network service

Bundled connectivity

Connectivity Management Portal (CMP)

Bundled Platform Services

Bundled APIs



Platform Service (Cloud)

Offering:

Secure Data Ingestion

Data Processing

Data Management

Data Storage

Reports

Dashboards



User Interface & APIs (Portal Services)

Offering:

Intuitive user interface / portal

B2B APIs for Smart City or 3rd party Apps

Integration support



Business Support (Integration & Service)

Offering:

Integration engineering support

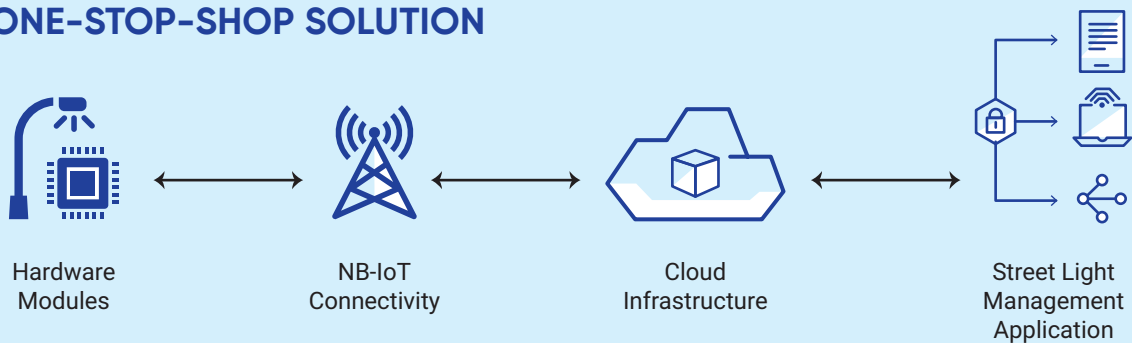
L1, L2 & L3 support

1000+ Pan India Center for service

Device warranty as per business model



ONE-STOP-SHOP SOLUTION



BUSINESS BENEFITS

Upto 25% of energy savings using highly optimized scheduling algorithms

Reduced TCO - One-stop-shop reduces multi-vendor payouts, simplifies management of IoT solution and thus reduces total cost of ownership

Scale to millions of lights using Pan-India NB-IoT network and get ride of infrastructure hassles for interoperable

Zero network setup and network management manpower cost

Plug & Play device integration removing installation hassles

Increased safety of people by identifying faulty lights

Future proof and secure fully encrypted data flows, the system meets the highest standards for security



End to End
Capability



Complete IoT
Streetlight/
Floodlight Range



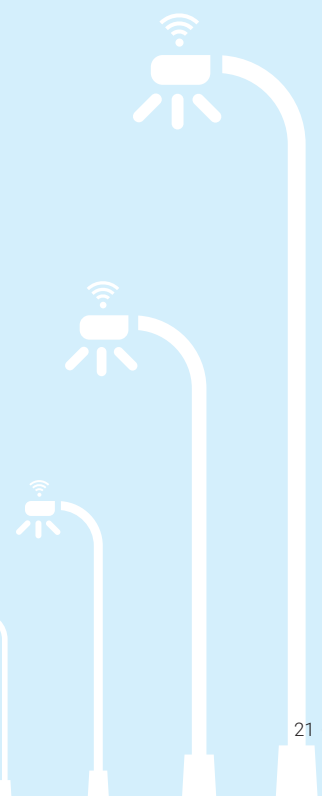
Integration &
Engineering
Support



Network
Assurance



Proactive
Service



Solutions for preset control of street lights

Modern DALI dimmable drivers are not only energy saving but also designed to be future proof enabling luminaires to be upgraded to central command and control center.

Many installations do not require sophisticated control and monitoring as the application does not call for it.

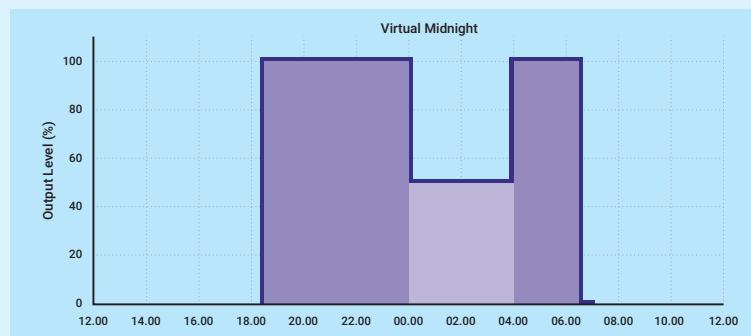
Keeping this in mind as well as the possibility to upgrade the luminaires in the future we can propose to Solutions:

chronoSTEP

This is a preprogrammed light sequence that is triggered by the switching the light on.

The following sequence is graphically represented below:

Switch on	1830 hrs	100% light level
Dim down	0000 hrs	50% light level
Dim up	0400 hrs	100% light level



groupCONTROL

This is also a standalone system for lighting automation however there are additional features like possibility to use Motion Detection sensors amongst others.

Other than the LED Driver there are 2 additional components that are required

1. Zhaga Book 18 Ed 3 connector
2. GPS Node/Lighting Controller connected to the lights
 - a. 1 GPS Node/Lighting can control upto 8 LED drivers which is ideal for high mast lighting.
 - b. This also reduces the number of components

Project requirement

High mast lights must be controllable via DALI signal.

Limitation of wired DALI

The max length of dali control bus is 300m and can be extended to 600m with a repeater.

This poses multiple risks in case the wiring is not correct or signal losses leading to improper operations that are critical.

Solution proposed

The solution proposed is a wireless 6 LowPan Narrow band system operating in the 868 mHz frequency. This is a license free band for use by anybody.

SMART CONTROL, BRIGHTER STREETS

SMART FEEDER

Centralised Control & Monitoring System (CCMS)

Transrail smart lighting automation solution intelligently controls lamps with automated commands. The Smart CCMS device manages lighting activities, saving up to 50% energy. It boosts maintenance productivity with auto alerts and notifications, accessible via mobile and desktop, saving manpower resources.



Technical Specifications

Brief Info

- **Main Chipset:** MDM 9207-1
- **Memory:** 2Gb + 1Gb
- **Sensor:** LSM6DS0(3D Accelerometer and 3D Gyroscope)
- **UE Category:** Cat-1
- **Frequency:** FDD B3/B5/B40
- **Data Rate:** D/L 10Mbps, U/L 5Mbps
- **GPS/AGPS**

Mechanical

- **Dimension:** 111.8 X 60 X 21.94
- **Battery:** LiFePO4 470 mAh
- **Antenna:** Internal Antenna (LTE / GPS)

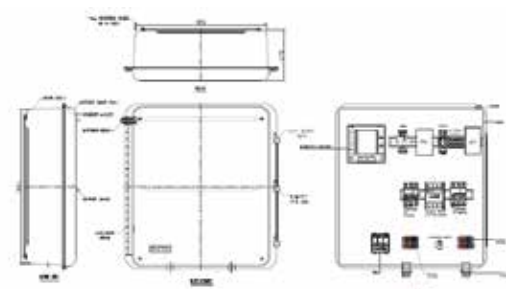
Environmental

- **Operating Temperature:**
Charging -0 to +60°C / Discharging -20 to +70°C
- IP65

Wires definition (13 wires)

- 3 wires for ACC/Battery/Chassis Ground
- 4 wires for 4 digital I/O
- 2 Analog I/O
- 2 wires for RS232 RX/TX
- 1 Digital Ground
- 1 Analog Ground

Reference Panel Drawing

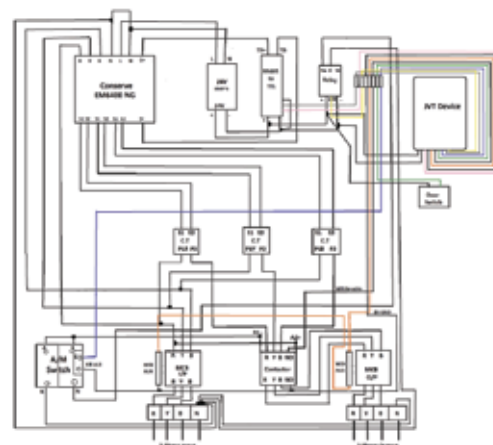


Standard Components in CCMS

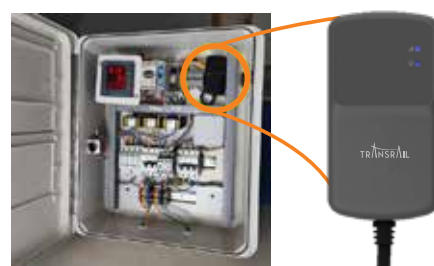
Common Electrical Switchgears

- Energy meter (Single phase or three phase) with or w/o CT
- Contactor / SSR for on/ off as per power rating
- MCB/ ELCB for protection
- Door open sensor
- Auto/ Manual
- Power supply (SMPS)
- kVA rating – 1kVA to 30kVA

Sample wiring diagram



Sample deployment



URSA MINOR

40W/36W/35W/30W/
25W/20W/15W



URSA MINOR

75W/80W/90W/100W



URSA MINOR

72W/70W/65W/60W/50W/45W



LED Streetlight with aesthetically designed pressure die cast aluminium housing along with frame, toughened glass and optical grade PC/PMMA lens for uniform light distribution.



HOUSING AND FRAME

Powder coated pressure die-cast aluminum housing with heat dissipating fins



COVER GLASS

Heat resistant toughened clear glass



LIGHT SOURCE

High power SMD LED
Luminarie Efficacy: 100/120/140 lm/W
Other Lumen Package, CCT & CRI available on request



DRIVER

Constant current electronic driver with Over voltage & Short circuit protection



INPUT VOLTAGE

Input voltage range 140 to 270V AC/50Hz



RELIABLE AND SAFE

Inbuilt Surge Protection: 4kV
External Surge protection: 10kV



MOUNTING

Side entry mounting suitable for 42mm OD pipe brackets

APPLICATIONS

Residential roads | Housing complex | Industry roads

IK	IP	CRI	Col. Temp.
08	66	>70	5700K ±355°K

ELECTRICAL SPECIFICATIONS

Cat. Ref.	SAP Code	System Wattage (W)	Input Voltage (V) AC	System Current (Amp.) @240V AC	Power Factor	THD
URSA MINOR 40W-15W						
TSL00400 SD	BS00405770SDN36	40W	240V	0.180A	≥0.95	<10%
TSL00482 SD	BS00485772SDN36	40W	240V	0.180A	≥0.95	<10%
TSL00360 SD	BS00365770SDN36	36W	240V	0.157A	≥0.95	<10%
TSL00442 SD	BS00445772SDN36	36W	240V	0.157A	≥0.95	<10%
TSL00350 SD	BS00355770SDN36	35W	240V	0.154A	≥0.95	<10%
TSL00422 SD	BS00425772SDN36	35W	240V	0.154A	≥0.95	<10%
TSL00300 SD	BS00305770SDN36	30W	240V	0.135A	≥0.95	<10%
TSL00362 SD	BS00365772SDN36	30W	240V	0.135A	≥0.95	<10%
TSL00250 SD	BS00255770SDN36	25W	240V	0.120A	≥0.95	<10%
TSL00302 SD	BS00305772SDN36	25W	240V	0.120A	≥0.95	<10%
TSL00200 SD	BS00205770SDN36	20W	240V	0.090A	≥0.95	<10%
TSL00242 SD	BS00245772SDN36	20W	240V	0.090A	≥0.95	<10%
TSL00150 SD	BS00155770SDN36	15W	240V	0.080A	≥0.95	<10%
TSL00182 SD	BS00185770SDN36	15W	240V	0.080A	≥0.95	<10%
URSA MINOR 72W-45W						
TSL00720 SD	BS00725770SDN36	72W	240V	0.330A	≥0.95	<10%
TSL00872 SD	BS00875772SDN36	72W	240V	0.330A	≥0.95	<10%
TSL00700 SD	BS00705770SDN36	70W	240V	0.315A	≥0.95	<10%
TSL00842 SD	BS00845772SDN36	70W	240V	0.315A	≥0.95	<10%
TSL00650 SD	BS00655770SDN36	65W	240V	0.300A	≥0.95	<10%
TSL00782 SD	BS00785772SDN36	65W	240V	0.300A	≥0.95	<10%
TSL00600 SD	BS00605770SDN36	60W	240V	0.270A	≥0.95	<10%
TSL00722 SD	BS00725772SDN36	60W	240V	0.270A	≥0.95	<10%
TSL00500 SD	BS00505770SDN36	50W	240V	0.225A	≥0.95	<10%
TSL00602 SD	BS00605772SDN36	50W	240V	0.225A	≥0.95	<10%
TSL00450 SD	BS00455770SDN36	45W	240V	0.210A	≥0.95	<10%
TSL00542 SD	BS00545772SDN36	45W	240V	0.210A	≥0.95	<10%
URSA MINOR - 100W-75W						
TSL01000 SD	BS01005770SDN36	100W	240V	0.439A	≥0.95	<10%
TSL01202 SD	BS01205772SDN36	100W	240V	0.439A	≥0.95	<10%
TSL00900 SD	BS00905770SDN36	90W	240V	0.395A	≥0.95	<10%
TSL01082 SD	BS01085772SDN36	90W	240V	0.395A	≥0.95	<10%
TSL00800 SD	BS00805770SDN36	80W	240V	0.360A	≥0.95	<10%
TSL00962 SD	BS00965772SDN36	80W	240V	0.360A	≥0.95	<10%
TSL00750 SD	BS00755770SDN36	75W	240V	0.335A	≥0.95	<10%
TSL00902 SD	BS00905772SDN36	75W	240V	0.335A	≥0.95	<10%

URSA

110W/120W/135W/
140W/150W



URSA MAJOR

200W/190W/180W/
170W/160W



URSA MAJOR

250W/240W/230W/
220W/210W



LYNX IP LENS

250W/240W/230W/
220W/210W



LED Streetlight with aesthetically designed pressure die cast aluminium housing along with frame, toughened glass and optical grade PC/PMMA lens for uniform light distribution.



HOUSING AND FRAME

Powder coated pressure die-cast aluminum housing with heat dissipating fins



COVER GLASS

Heat resistant toughened clear glass



LIGHT SOURCE

High power SMD LED
Luminarie Efficacy: 100/120/140 lm/W
Other Lumen Package, CCT & CRI available on request



DRIVER

Constant current electronic driver
with Over voltage & Short circuit protection



INPUT VOLTAGE

Input voltage range 140 to 270V AC/50Hz



RELIABLE AND SAFE

Inbuilt Surge Protection: 4kV
External Surge protection: 10kV



MOUNTING

Side entry mounting suitable for
42mm OD pipe brackets

APPLICATIONS

Residential roads | Housing complex | Industry roads

IK	IP	CRI	Col. Temp.
08	66	>70	5700K ±355°K

ELECTRICAL SPECIFICATIONS

Cat. Ref.	SAP Code	System Wattage (W)	Input Voltage (V) AC	System Current (Amp.) @240V AC	Power Factor	THD
URSA - 150W-110W						
TSL01802 SD	BS01805772SDN36	150W	240V	0.658A	≥0.95	<10%
TSL02104 SD	BS02105774SDN36	150W	240V	0.658A	≥0.95	<10%
TSL01400 SD	BS01405770SDN36	140W	240V	0.640A	≥0.95	<10%
TSL01682 SD	BS01685772SDN36	140W	240V	0.640A	≥0.95	<10%
TSL01350 SD	BS01355770SDN36	135W	240V	0.582A	≥0.95	<10%
TSL01622 SD	BS01625772SDN36	135W	240V	0.582A	≥0.95	<10%
TSL01200 SD	BS01205770SDN36	120W	240V	0.526A	≥0.95	<10%
TSL01442 SD	BS01445772SDN36	120W	240V	0.526A	≥0.95	<10%
TSL01100 SD	BS01105770SDN36	110W	240V	0.482A	≥0.95	<10%
TSL01322 SD	BS01325772SDN36	110W	240V	0.482A	≥0.95	<10%
URSA MAJOR - 200W-160W						
TSL02402 SD	BS02405772SDN36	200W	240V	0.880A	≥0.95	<10%
TSL02804 SD	BS02805774SDN36	200W	240V	0.880A	≥0.95	<10%
TSL02282 SD	BS02285772SDN36	190W	240V	0.833A	≥0.95	<10%
TSL02664 SD	BS02665774SDN36	190W	240V	0.833A	≥0.95	<10%
TSL02162 SD	BS02165772SDN36	180W	240V	0.789A	≥0.95	<10%
TSL02524 SD	BS02525774SDN36	180W	240V	0.789A	≥0.95	<10%
TSL02042 SD	BS02045772SDN36	170W	240V	0.780A	≥0.95	<10%
TSL02384 SD	BS02385774SDN36	170W	240V	0.780A	≥0.95	<10%
TSL01922 SD	BS01925772SDN36	160W	240V	0.720A	≥0.95	<10%
TSL02244 SD	BS02245774SDN36	160W	240V	0.720A	≥0.95	<10%
URSA MAJOR - 250W-210W						
TSL03002 SD	BS03005772SDN36	250W	240V	1.096A	≥0.95	<10%
TSL03504 SD	BS03505774SDN36	250W	240V	1.096A	≥0.95	<10%
TSL02882 SD	BS02885772SDN36	240W	240V	0.640A	≥0.95	<10%
TSL03364 SD	BS03365774SDN36	240W	240V	0.640A	≥0.95	<10%
TSL02762 SD	BS02765772SDN36	230W	240V	0.582A	≥0.95	<10%
TSL03224 SD	BS03225774SDN36	230W	240V	0.582A	≥0.95	<10%
TSL02642 SD	BS02645772SDN36	220W	240V	0.526A	≥0.95	<10%
TSL03084 SD	BS03085774SDN36	220W	240V	0.526A	≥0.95	<10%
TSL02522 SD	BS02525772SDN36	210W	240V	0.921A	≥0.95	<10%
TSL02944 SD	BS02945774SDN36	210W	240V	0.921A	≥0.95	<10%
LYNX IP LENS - 24W-250W						
TISL 00240 SD	BI00245770SDN36	24W	240V	0.105A	≥0.95	<10
TISL 00282 SD	BI00285772SDN36	24W	240V	0.105A	≥0.95	<10
TISL 00350 SD	BI00355770SDN36	35W	240V	0.154A	≥0.95	<10
TISL 00422 SD	BI00425772SDN36	35W	240V	0.154A	≥0.95	<10
TISL 00450 SD	BI00455770SDN36	45W	240V	0.197A	≥0.95	<10
TISL 00542 SD	BI00545772SDN36	45W	240V	0.197A	≥0.95	<10
TISL 00600 SD	BI00605770SDN36	60W	240V	0.263A	≥0.95	<10
TISL 00722 SD	BI00725772SDN36	60W	240V	0.263A	≥0.95	<10
TISL 00700 SD	BI00705770SDN36	70W	240V	0.307A	≥0.95	<10
TISL 00842 SD	BI00845772SDN36	70W	240V	0.307A	≥0.95	<10
TISL 00720 SD	BI00725770SDN36	72W	240V	0.330A	≥0.95	<10
TISL 00862 SD	BI00865772SDN36	72W	240V	0.330A	≥0.95	<10
TISL 00900 SD	BI00905770SDN36	90W	240V	0.396A	≥0.95	<10
TISL 01082 SD	BI01085772SDN36	90W	240V	0.396A	≥0.95	<10
TISL 01000 SD	BI01005770SDN36	100W	240V	0.439A	≥0.95	<10
TISL 01202 SD	BI01205772SDN36	100W	240V	0.439A	≥0.95	<10
TISL 01200 SD	BI01205770SDN36	120W	240V	0.526A	≥0.95	<10
TISL 01442 SD	BI01445772SDN36	120W	240V	0.526A	≥0.95	<10
TISL 01100 SD	BI01105770SDN36	110W	240V	0.482A	≥0.95	<10
TISL 01322 SD	BI01325772SDN36	110W	240V	0.482A	≥0.95	<10
TISL 01802 SD	BI01805772SDN36	150W	240V	0.658A	≥0.95	<10
TISL 02104 SD	BI02105774SDN36	150W	240V	0.658A	≥0.95	<10
TISL 01350 SD	BI01355770SDN36	135W	240V	0.582A	≥0.95	<10
TISL 01622 SD	BI01625772SDN36	135W	240V	0.582A	≥0.95	<10
TISL 01600 SD	BI01605770SDN36	160W	240V	0.701A	≥0.95	<10
TISL 01922 SD	BI01925772SDN36	160W	240V	0.701A	≥0.95	<10
TISL 03002 SD	BI03005772SDN36	250W	240V	1.096A	≥0.95	<10
TISL 03504 SD	BI03505774SDN36	250W	240V	1.096A	≥0.95	<10
TISL 02402 SD	BI02405772SDN36	200W	240V	0.887A	≥0.95	<10
TISL 02804 SD	BI02805774SDN36	200W	240V	0.887A	≥0.95	<10
TISL 02162 SD	BI02165772SDN36	180W	240V	0.789A	≥0.95	<10
TISL 02524 SD	BI02525774SDN36	180W	240V	0.789A	≥0.95	<10
TISL 02282 SD	BI02285772SDN36	190W	240V	0.833A	≥0.95	<10
TISL 02664 SD	BI02665774SDN36	190W	240V	0.833A	≥0.95	<10

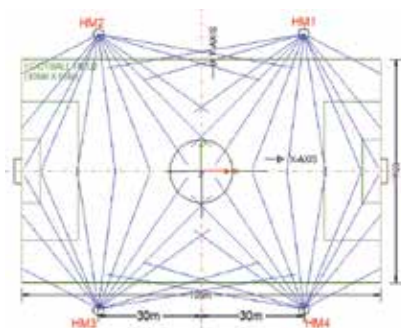
* Technical data subject to change due to constant improvement in the design, material and LED technology without prior notice.

On request CCT 3000K & 4000K with minimum MOQ.

Lynx Street Light above 150W the 170lm/w product also available on request.

INNOVATIVE AND SMART SOLUTION FOR SPORTS LIGHTING

Transrail LED flood lighting gives the right illumination levels for the sports occasion, pleasing every fan both at home and in the stadium. Clear visibility and glare-free lighting help to capture each and every action. This sports lighting enhances the atmosphere and attracts visitors with intelligent control systems to reduce operational costs. We have start-to-finish services from initial planning and design through to product supply, installation, commissioning and servicing.

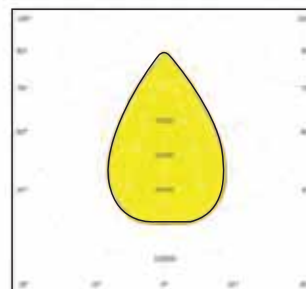
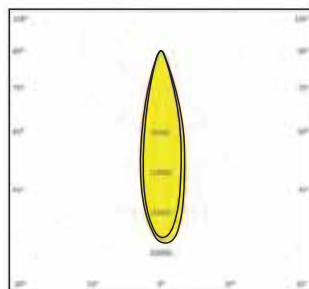
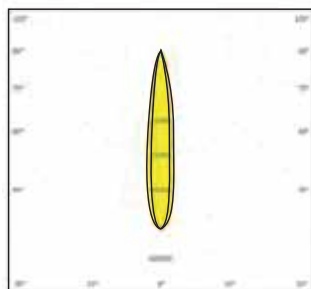


PROJECT FACILITIES

Lighting scope according to the classification of play

Stadium high mast scope

Luminaire specification





INDUS

80W/75W/70W/60W
50W/45W/40W/20W



INDUS

160W/150W/140W/120W/
110W/100W/90W



INDUS

250W/240W/220W/
200W/190W/180W



LYRA

360W/350W/300W



LYRA

500W/450W/400W



Excellent general purpose area flood light housed in single piece die cast aluminum. It reduces energy consumption and meets the highest performance along with outstanding light quality and safety assurance



HOUSING AND FRAME

Powder coated pressure die-cast aluminum housing with heat dissipating fins



COVER GLASS

Heat resistant toughened clear glass



LIGHT SOURCE

High power SMD LED
Luminarie Efficacy: 100/120/140 lm/W
Other Lumen Package, CCT & CRI available on request



DRIVER

Constant current electronic driver with Over voltage & Short circuit protection



INPUT VOLTAGE

Input voltage range 140 to 270V AC/50Hz



RELIABLE AND SAFE

Inbuilt Surge Protection: 4kV
External Surge protection: 10kV



MOUNTING

MS mounting bracket fixed on pressure die cast aluminum housing for aiming adjustment and high mast lantern carriage installation

APPLICATIONS

Large Open Areas | Railway & Container Yards
Air & Sea Ports | Under Pass Applications

IK 08	IP 66	CRI >70	Col. Temp. 5700K ±355°K
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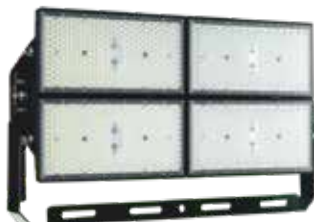
ELECTRICAL SPECIFICATIONS

Cat. Ref.	SAP Code	System Wattage (W)	Input Voltage (V) AC	System Current (Amp.) @240V AC	Power Factor	THD
INDUS - 80W-20W						
TRFL 00800 WB	BF0080577060N36	80W	240V	0.360A	≥0.95	<10%
TRFL 00962 WB	BF0096577260N36	80W	240V	0.360A	≥0.95	<10%
TRFL 00750 WB	BF0075577060N36	75W	240V	0.320A	≥0.95	<10%
TRFL 00902 WB	BF0090577260N36	75W	240V	0.320A	≥0.95	<10%
TRFL 00700 WB	BF0070577060N36	70W	240V	0.307A	≥0.95	<10%
TRFL 00842 WB	BF0084577260N36	70W	240V	0.307A	≥0.95	<10%
TRFL 00600 WB	BF0060577060N36	60W	240V	0.270A	≥0.95	<10%
TRFL 00722 WB	BF0072577260N36	60W	240V	0.270A	≥0.95	<10%
TRFL 00500 WB	BF0050577060N36	50W	240V	0.225A	≥0.95	<10%
TRFL 00602 WB	BF0060577260N36	50W	240V	0.225A	≥0.95	<10%
TRFL 00450 WB	BF0045577060N36	45W	240V	0.200A	≥0.95	<10%
TRFL 00542 WB	BF0054577260N36	45W	240V	0.200A	≥0.95	<10%
TRFL 00400 WB	BF0040577060N36	40W	240V	0.180A	≥0.95	<10%
TRFL 00482 WB	BF0048577260N36	40W	240V	0.180A	≥0.95	<10%
TRFL 00300 WB	BF0030577060N36	30W	240V	0.135A	≥0.95	<10%
TRFL 00362 WB	BF0036577260N36	30W	240V	0.135A	≥0.95	<10%
TRFL 00200 WB	BF0020577060N36	20W	240V	0.090A	≥0.95	<10%
TRFL 00242 WB	BF0024577260N36	20W	240V	0.090A	≥0.95	<10%
INDUS - 90W-160W						
TRFL 01600 WB	BF0160577060N34	160W	240V	0.720A	≥0.95	<10%
TRFL 01922 WB	BF0192577260N34	160W	240V	0.720A	≥0.95	<10%
TRFL 01500 WB	BF0150577060N34	150W	240V	0.658A	≥0.95	<10%
TRFL 01802 WB	BF0180577260N34	150W	240V	0.658A	≥0.95	<10%
TRFL 01400 WB	BF0140577060N34	140W	240V	0.614A	≥0.95	<10%
TRFL 01682 WB	BF0168577260N34	140W	240V	0.614A	≥0.95	<10%
TRFL 01200 WB	BF0120577260N34	120W	240V	0.526A	≥0.95	<10%
TRFL 01442 WB	BS01445772S2N34	120W	240V	0.526A	≥0.95	<10%
TRFL 01100 WB	BF0110577060N34	110W	240V	0.482A	≥0.95	<10%
TRFL 01322 WB	BF0132577260N34	110W	240V	0.482A	≥0.95	<10%
TRFL 01000 WB	BF0100577060N34	100W	240V	0.439A	≥0.95	<10%
TRFL 01200 WB	BF0120577060N34	100W	240V	0.439A	≥0.95	<10%
TRFL 00900 WB	BF0090577060N34	90W	240V	0.400A	≥0.95	<10%
TRFL 01082 WB	BF0108577260N34	90W	240V	0.400A	≥0.95	<10%
INDUS - 250W-180W						
TRFL 02500 WB	BF0250577060N36	250W	240V	1.096A	≥0.95	<10%
TRFL 03002 WB	BF0300577260N36	250W	240V	1.096A	≥0.95	<10%
TRFL 02400 WB	BF0240577060N36	240W	240V	1.053A	≥0.95	<10%
TRFL 02882 WB	BF0288577260N36	240W	240V	1.053A	≥0.95	<10%
TRFL 02200 WB	BF0220577060N36	220W	240V	0.985A	≥0.95	<10%
TRFL 02642 WB	BF0264577260N36	220W	240V	0.985A	≥0.95	<10%
TRFL 02000 WB	BF0200577060N36	200W	240V	0.877A	≥0.95	<10%
TRFL 02402 WB	BF0240577260N36	200W	240V	0.877A	≥0.95	<10%
TRFL 01900 WB	BF0190577060N36	190W	240V	0.833A	≥0.95	<10%
TRFL 02282 WB	BF0228577260N36	190W	240V	0.833A	≥0.95	<10%
TRFL 01802 WB	BF0180577060N36	180W	240V	0.805A	≥0.95	<10%
TRFL 02162 WB	BF0216577260N36	180W	240V	0.805A	≥0.95	<10%
LYRA - 360-300W						
TRFL 04322 WB	BF0432577260N36	360W	240V	1.620A	≥0.95	<10%
TRFL 05044 WB	BF0504577460N36	360W	240V	1.620A	≥0.95	<10%
TRFL 04322 MB	BF0432577230N36	360W	240V	1.620A	≥0.95	<10%
TRFL 05044 MB	BF0504577430N36	360W	240V	1.620A	≥0.95	<10%
TRFL 04202 WB	BF0420577260N36	350W	240V	1.535A	≥0.95	<10%
TRFL 04904 WB	BF0490577460N36	350W	240V	1.535A	≥0.95	<10%
TRFL 04202 MB	BF0420577230N36	350W	240V	1.535A	≥0.95	<10%
TRFL 04904 MB	BF0490577430N36	350W	240V	1.535A	≥0.95	<10%
TRFL 03602 WB	BF0360577260N36	300W	240V	1.316A	≥0.95	<10%
TRFL 04204 WB	BF0420577460N36	300W	240V	1.316A	≥0.95	<10%
TRFL 03602 MB	BF0360577230N36	300W	240V	1.316A	≥0.95	<10%
TRFL 04204 MB	BF0420577430N36	300W	240V	1.316A	≥0.95	<10%
LYRA - 500W-400W						
TRFL 06002 MB	BF0600577230N36	500W	240V	2.193A	≥0.95	<10%
TRFL 07004 MB	BF0700577430N36	500W	240V	2.193A	≥0.95	<10%
TRFL 06002 NB	BF0600577215N36	500W	240V	2.193A	≥0.95	<10%
TRFL 07004 NB	BF0700577415N36	500W	240V	2.193A	≥0.95	<10%
TRFL 05402 MB	BF0540577230N36	450W	240V	1.974A	≥0.95	<10%
TRFL 06304 MB	BF0630577430N36	450W	240V	1.974A	≥0.95	<10%
TRFL 05402 NB	BF0540577215N36	450W	240V	1.974A	≥0.95	<10%
TRFL 06304 NB	BF0630577415N36	450W	240V	1.974A	≥0.95	<10%
TRFL 04802 MB	BF0480577230N36	400W	240V	1.754A	≥0.95	<10%
TRFL 05604 MB	BF0560577430N36	400W	240V	1.754A	≥0.95	<10%
TRFL 04802 NB	BF0480577215N36	400W	240V	1.754A	≥0.95	<10%
TRFL 05604 NB	BF0560577415N36	400W	240V	1.754A	≥0.95	<10%

* Technical data subject to change due to constant improvement in the design, material and LED technology without prior notice.

SOLIS

1500W/1300W/
1200W/1100W
900W/800W/
750W



SOLIS PLUS

1000W/800W/
600W/500W



SOLIS PRO

1200W/1500W/
1600W/1650W/
1800W



LYNX

400W - 70W



Excellent general purpose area flood light housed in single piece die cast aluminum. It reduces energy consumption and meets the highest performance along with outstanding light quality and safety assurance



HOUSING AND FRAME

Powder coated pressure die-cast aluminum housing with heat dissipating fins



COVER

Polyarbonate lens cum cover of various beam angles



LIGHT SOURCE

High power SMD LED
Luminarie Efficacy: 100/120/140 lm/W
Other Lumen Package, CCT & CRI available on request



DRIVER

Constant current electronic driver with Over voltage & Short circuit protection



INPUT VOLTAGE

Input voltage range 140 to 270V AC/50Hz



RELIABLE AND SAFE

Inbuilt Surge Protection: 4kV
External Surge protection: 10kV



MOUNTING

MS mounting bracket fixed on pressure die cast aluminum housing for aiming adjustment and high mast lantern carriage installation

APPLICATIONS

Large Open Areas | Railway & Container Yards
Air & Sea Ports | Under Pass Applications

IK 08	IP 66	CRI >70	Col. Temp. 5700K ±355°K
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ELECTRICAL SPECIFICATIONS

Cat. Ref.	SAP Code	System Wattage (W)	Input Voltage (V) AC	System Current (Amp.) @240V AC	Power Factor	THD
SOLIS - 1500W-750W						
TRFL 18002 NB	BF1800577215N19	1500W	240V	6.578A	≥0.95	<10%
TRFL 15602 NB	BF1560577215N19	1300W	240V	5.701A	≥0.95	<10%
TRFL 14402 NB	BF1440577215N19	1200W	240V	5.263A	≥0.95	<10%
TRFL 12002 NB	BF1200577215N19	1000W	240V	4.385A	≥0.95	<10%
TRFL 10802 NB	BF1080577215N19	900W	240V	3.947A	≥0.95	<10%
TRFL 09602 NB	BF0960577215N19	800W	240V	3.508A	≥0.95	<10%
TRFL 09002 NB	BF0900577215N19	750W	240V	3.289A	≥0.95	<10%
SOLIS PLUS - 1000W/800W/600W/500W						
TRFL 06002 MB SP	BF0600577230N36SP	500W	240V	2.193A	≥0.95	<10%
TRFL 07004 MB SP	BF0700577430N36SP	500W	240V	2.193A	≥0.95	<10%
TRFL 06002 NB SP	BF0600577215N36SP	500W	240V	2.193A	≥0.95	<10%
TRFL 07004 NB SP	BF0700577415N36SP	500W	240V	2.193A	≥0.95	<10%
TRFL 07202 MB SP	BF0720577230N36SP	600W	240V	2.632A	≥0.95	<10%
TRFL 08404 MB SP	BF0840577430N36SP	600W	240V	2.632A	≥0.95	<10%
TRFL 07202 NB SP	BF0720577215N36SP	600W	240V	2.632A	≥0.95	<10%
TRFL 08404 NB SP	BF0840577415N36SP	600W	240V	2.632A	≥0.95	<10%
TRFL 09602 MB SP	BF0960577230N36SP	800W	240V	3.510A	≥0.95	<10%
TRFL 11204 MB SP	BF1120577430N36SP	800W	240V	3.510A	≥0.95	<10%
TRFL 09602 NB SP	BF0960577215N36SP	800W	240V	3.510A	≥0.95	<10%
TRFL 11204 NB SP	BF1120577415N36SP	800W	240V	3.510A	≥0.95	<10%
TRFL 12002 MB SP	BF1200577230N36SP	1000W	240V	4.380A	≥0.95	<10%
TRFL 14004 MB SP	BF1400577430N36SP	1000W	240V	4.380A	≥0.95	<10%
TRFL 12002 NB SP	BF1200577215N36SP	1000W	240V	4.380A	≥0.95	<10%
TRFL 14004 NB SP	BF1400577415N36SP	1000W	240V	4.380A	≥0.95	<10%
SOLIS PRO - 1200W/1500W/1600W/1650W						
TRFL 14402 MB SR	BF1440577230N36SR	1200W	240V	5.26A	≥0.95	<10%
TRFL 16804 MB SR	BF1680577430N36SR	1200W	240V	5.26A	≥0.95	<10%
TRFL 14402 NB SR	BF1440577215N36SR	1200W	240V	5.26A	≥0.95	<10%
TRFL 16804 NB SR	BF1680577415N36SR	1200W	240V	5.26A	≥0.95	<10%
TRFL 18002 MB SR	BF1800577230N36SR	1500W	240V	6.57A	≥0.95	<10%
TRFL 21004 MB SR	BF2100577430N36SR	1500W	240V	6.57A	≥0.95	<10%
TRFL 18002 NB SR	BF1800577215N36SR	1500W	240V	6.57A	≥0.95	<10%
TRFL 21004 NB SR	BF2100577415N36SR	1500W	240V	6.57A	≥0.95	<10%
TRFL 19202 MB SR	BF1920577230N36SR	1600W	240V	7.02A	≥0.95	<10%
TRFL 22404 MB SR	BF2240577430N36SR	1600W	240V	7.02A	≥0.95	<10%
TRFL 19202 NB SR	BF1920577215N36SR	1600W	240V	7.02A	≥0.95	<10%
TRFL 22404 NB SR	BF2240577415N36SR	1600W	240V	7.02A	≥0.95	<10%
TRFL 19802 MB SR	BF1980577230N36SR	1650W	240V	7.23A	≥0.95	<10%
TRFL 23104 MB SR	BF2310577430N36SR	1650W	240V	7.23A	≥0.95	<10%
TRFL 19802 NB SR	BF1980577215N36SR	1650W	240V	7.23A	≥0.95	<10%
TRFL 23104 NB SR	BF2310577415N36SR	1650W	240V	7.23A	≥0.95	<10%
TRFL 21602 NB SR	BF2160577215N36SR	1800W	240V	7.89A	≥0.95	<10%
LYNX - 400W to 70W						
TIFL 00700 WB	BI0070577060N36	70W	240V	0.307A	≥0.95	<10%
TIFL 00800 WB	BI0080577060N36	80W	240V	0.350A	≥0.95	<10%
TIFL 00900 WB	BI0090577060N36	90W	240V	0.394A	≥0.95	<10%
TIFL 01000 WB	BI0100577060N36	100W	240V	0.438A	≥0.95	<10%
TIFL 01200 WB	BI0120577060N36	120W	240V	0.526A	≥0.95	<10%
TIFL 01400 WB	BI0140577060N36	140W	240V	0.614A	≥0.95	<10%
TIFL 01500 WB	BI0150577060N36	150W	240V	0.657A	≥0.95	<10%
TIFL 01600 WB	BI0160577060N36	160W	240V	0.701A	≥0.95	<10%
TIFL 01800 WB	BI0180577060N36	180W	240V	0.789A	≥0.95	<10%
TIFL 02000 WB	BI0200577060N36	200W	240V	0.877A	≥0.95	<10%
TIFL 02400 WB	BI0240577060N36	240W	240V	1.052A	≥0.95	<10%
TIFL 02500 MB	BI0250577030N36	250W	240V	1.096A	≥0.95	<10%
TIFL 03000 MB	BI0300577030N36	300W	240V	1.315A	≥0.95	<10%
TIFL 03500 MB	BI0350577030N36	350W	240V	1.535A	≥0.95	<10%
TIFL 04000 MB	BI0400577030N36	400W	240V	1.754A	≥0.95	<10%

* Technical data subject to change due to constant improvement in the design, material and LED technology without prior notice.

On request CCT 3000K & 4000K with minimum MOQ

For CRI 80 & 90 available on request

LED HIGHBAY



Single piece pressure die-cast corrosion resistant aluminum alloy & epoxy powder coated, highest performance along with outstanding light quality and safety assurance.

LED TUNNEL



HOUSING AND FRAME

Powder coated pressure die-cast aluminum housing



LIGHT SOURCE

High power SMD LED
Luminarie efficacy: 100/120/130 lm/W
Other lumen package, CCT & CRI available on request



DRIVER

Constant current electronic driver
with over voltage & short circuit protection



INPUT VOLTAGE

Input voltage range 140 to 270V AC/50Hz



RELIABLE AND SAFE

Inbuilt surge protection: 4kV
External surge protection: 10kV

LED INDUSTRIAL BATTEN



LED WELLGLASS



APPLICATIONS

Large Open Areas | Railway & Container Yards
Air & Sea Ports | Under Pass Applications

IK 08	IP 66	CRI >70	Col. Temp. 5700K ±355°K
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ELECTRICAL SPECIFICATIONS

Cat. Ref.	SAP Code	System Wattage (W)	Input Voltage (V) AC	System Current (Amp.) @240V AC	Power Factor	THD
LED HIGHBAY - 50W/80W/100W/120W/150W/200W/250W/300W/350W/400W						
THBL 00500 WB	BH0050577090N36	50W	240V	0.23A	≥0.95	<10%
THBL 00602 WB	BH0060577290N36	50W	240V	0.23A	≥0.95	<10%
THBL 00800 WB	BH0080577090N36	80W	240V	0.37A	≥0.95	<10%
THBL 00962 WB	BH0096577290N36	80W	240V	0.37A	≥0.95	<10%
THBL 01000 WB	BH0100577090N36	100W	240V	0.45A	≥0.95	<10%
THBL 01202 WB	BH0120577290N36	100W	240V	0.45A	≥0.95	<10%
THBL 01200 WB	BH0120577090N36	120W	240V	0.55A	≥0.95	<10%
THBL 01442 WB	BH0144577290N36	120W	240V	0.55A	≥0.95	<10%
THBL 01500 WB	BH0150577090N36	150W	240V	0.68A	≥0.95	<10%
THBL 01802 WB	BH0180577290N36	150W	240V	0.68A	≥0.95	<10%
THBL 02000 MB	BH0200577060N36	200W	240V	0.92A	≥0.95	<10%
THBL 02402 MB	BH0240577260N36	200W	240V	0.92A	≥0.95	<10%
THBL 02500 MB	BH0250577060N36	250W	240V	1.51A	≥0.95	<10%
THBL 03002 NB	BH0300577230N36	250W	240V	1.51A	≥0.95	<10%
THBL 03000 NB	BH0300577060N36	300W	240V	1.37A	≥0.95	<10%
THBL 03602 NB	BH0360577260N36	300W	240V	1.37A	≥0.95	<10%
THBL 03500 NB	BH0350577060N36	350W	240V	1.60A	≥0.95	<10%
THBL 04202 NB	BH0420577260N36	350W	240V	1.60A	≥0.95	<10%
THBL 04000 NB	BH0400577060N36	400W	240V	1.83A	≥0.95	<10%
THBL 04802 NB	BH0480577260N36	400W	240V	1.83A	≥0.95	<10%
LED TUNNEL - 20W/80W/100W/150W//300W						
TUNL 00200 SD	BT00204070SDN36	20W	240V	0.09A	≥0.95	<10%
TUNL 00242 SD	BT00244072SDN36	20W	240V	0.09A	≥0.95	<10%
TUNL 00800 SD	BT00804070SDN36	80W	240V	0.350A	≥0.95	<10%
TUNL 00962 SD	BT00964072SDN36	80W	240V	0.350A	≥0.95	<10%
TUNL 01000 SD	BT01004070SDN36	100W	240V	0.438A	≥0.95	<10%
TUNL 01202 SD	BT01204072SDN36	100W	240V	0.438A	≥0.95	<10%
TUNL 01500 SD	BT01504070SDN36	150W	240V	0.657A	≥0.95	<10%
TUNL 01802 SD	BT01804072SDN36	150W	240V	0.657A	≥0.95	<10%
TUNL 03000 SD	BT03004070SDN36	300W	240V	1.320A	≥0.95	<10%
TUNL 03602 SD	BT03604072SDN36	300W	240V	1.320A	≥0.95	<10%
LED INDUSTRIAL BATTEN - 20W/36W/40W						
TIPC 00200 SD	BB00205770SDN36PC	20W	240V	0.09A	≥0.95	<10%
TIPC 00242 SD	BB00245772SDN36PC	20W	240V	0.09A	≥0.95	<10%
TIPC 00360 SD	BB00365770SDN36PC	36W	240V	0.157A	≥0.95	<10%
TIPC 00432 SD	BB00435772SDN36PC	36W	240V	0.157A	≥0.95	<10%
TIPC 00400 SD	BB00405770SDN36PC	40W	240V	0.175A	≥0.95	<10%
TIPC 00482 SD	BB00485772SDN36PC	40W	240V	0.175A	≥0.95	<10%
LED WELLGLASS - 25W/30W/35W/40W/50W/60W/70W/90W/100W						
TWL 00250 SD	BW00255770SDN36	25W	240V	0.109A	≥0.95	<10%
TWL 00302 SD	BW00305772SDN36	25W	240V	0.109A	≥0.95	<10%
TWL 00300 SD	BW00305770SDN36	30W	240V	0.131A	≥0.95	<10%
TWL 00362 SD	BW00365772SDN36	30W	240V	0.131A	≥0.95	<10%
TWL 00350 SD	BW00355770SDN36	35W	240V	0.153A	≥0.95	<10%
TWL 00422 SD	BW00425772SDN36	35W	240V	0.153A	≥0.95	<10%
TWL 00400 SD	BW00405770SDN36	40W	240V	0.175A	≥0.95	<10%
TWL 00402 SD	BW00485772SDN36	40W	240V	0.175A	≥0.95	<10%
TWL 00500 SD	BW00505770SDN36	50W	240V	0.219A	≥0.95	<10%
TWL 00602 SD	BW00605772SDN36	50W	240V	0.219A	≥0.95	<10%
TWL 00600 SD	BW00605770SDN36	60W	240V	0.263A	≥0.95	<10%
TWL 00722 SD	BW00725772SDN36	60W	240V	0.307A	≥0.95	<10%
TWL 00700 SD	BW00705770SDN36	70W	240V	0.263A	≥0.95	<10%
TWL 00842 SD	BW00845772SDN36	70W	240V	0.263A	≥0.95	<10%
TWL 00900 SD	BW00905770SDN36	90W	240V	0.394A	≥0.95	<10%
TWL 01082 SD	BW01085772SDN36	90W	240V	0.394A	≥0.95	<10%
TWL 01000 SD	BW01005770SDN36	100W	240V	0.438A	≥0.95	<10%
TWL 01202 SD	BW01205772SDN36	100W	240V	0.438A	≥0.95	<10%

APUS

Aviation Obstruction Light
9W



Omni directional Aviation Obstruction light
suitable for Neon Spiral lamp LED (Apus 3.0).

TECHNICAL FEATURES

Apus 3.0 - LED 13W 300 led lamps constant voltage drop
type aviation obstruction light.

Housing of die cast aluminium of robust and sturdy
construction.

Dome made of non-yellowing, non-cracking UV-proof
clear polycarbonate (Apus 3.0) and of specially toughened,
heat resistant glass (Apus 1.0).

Superbright Red LEDS - 300 nos. per lamp

Colour: Aviation Red (Dominant wavelength 626nm).

Powder Coated corrosion resistant body.

High quality EPDM gasket securely maintains the IP rating

XLPE insulated wiring as standard supply.

IP 65 ingress protection. Class I electrical equipment.

Average Burning Life: 100000 Hrs

Mounting: 3/4" X 4" G.I. Barrel nipple with 02 nos G.I. chucknuts

SPECIAL FEATURES

All wires and cables XLPE insulated. Long lasting protection.
Halogen free manufacturing. Requirement of latest
international environmental norms.

Transrail Lighting products are designed to optimize and
efficiently use material and energy during all stages of
manufacture, installation and usage-a standard practice of
Transrail Lighting Limited to minimize carbon footprint and
save the environment

APPLICATIONS

Ideally Matched for Highmast | Chimney Stacks
Highrises Telecommunication Towers

ELECTRICAL SPECIFICATIONS

Cat. Ref.	Ordering Code	System Wattage (W)	Input Voltage (V)	Dome Type
TF11310A	BOALAPUSTW301015N	>9W	240V	Twin
TF11310S	BOALAPUS301015LSN	<9W	240V	Single

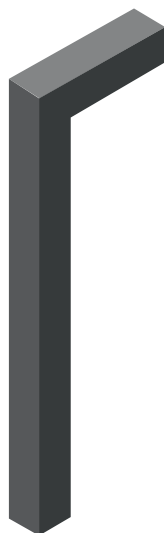


LED BOLLARD



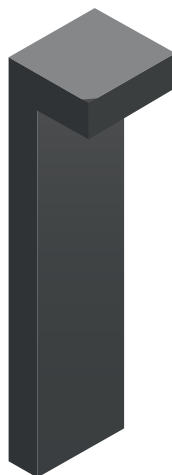
PUPPIS VE

9W



CAPRICORNUS

9W



CAPRICORNUS

9W



CAPRICORNUS

9W



HOUSING

Aluminium housing, graphite grey colour



DIFFUSER

Optical grade PC opal / clear diffuser



LIGHT SOURCE

High Bright LED



DRIVER

Constant current electronic driver with Over voltage & Short circuit protection



INPUT VOLTAGE

Input voltage range 150 to 300V AC/50Hz



RELIABLE AND SAFE

Inbuilt Surge Protection: 4kV



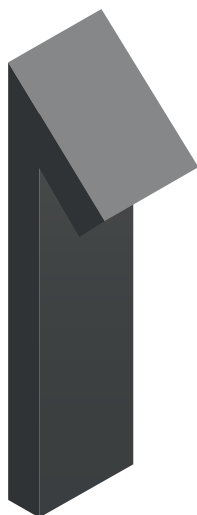
WEATHER-PROOF

IP65 Protection

IK	IP	CRI	Col. Temp.
08	65	>80	3000K±500°K



LED BOLLARD



SUBRA

9W



LUPUS

30W/40W/60W/72W

LED SPIKE LIGHT



WURREN

5W/9W



CASTOR

9W/15W/25W

APPLICATIONS

Squares & Pedestrian Areas | Bridges | Bike & Pedestrian Paths | Car Parks | Plants & Trees | Sculptures & Structures

ELECTRICAL SPECIFICATIONS

Cat. Ref.	SAP Code	System Wattage (W)	Input Voltage (V) AC	System Current (Amp.) @240V AC	Power Factor	THD
LED BOLLARD - PUPPIS VE						
TBP0009	BL000930800PN34P	9W	240V	0.035	≥0.95	<10%
TBP0009	BL000930800CLN34P	9W	240V	0.035	≥0.95	<10%
LED BOLLARD - CAPRICORNUS						
TBP0009	BL000930800PN34C4	9W	240V	0.035	≥0.95	<10%
TBP0009	BL000930800PN34CE	9W	240V	0.035	≥0.95	<10%
TBP0009	BL000930800PN34C9	9W	240V	0.035	≥0.95	<10%
LED BOLLARD - SUBRA						
TBP0009	BL000930800PN30SE	9W	240V	0.035	≥0.95	<10%
LED BOLLARD - LUPUS						
TBP0030	BL00305770CLN30LD	30W	240V	-	≥0.95	<10%
TBP0040	BL00405770CLN30LD	40W	240V	-	≥0.95	<10%
TBP0060	BL00605770CLN30LD	60W	240V	-	≥0.95	<10%
TBP0072	BL00725770CLN30LD	72W	240V	-	≥0.95	<10%
LED SPIKE LIGHT - WURREN						
TL0005	BL0005307038N34R	5W	240V	-	≥0.95	<10%
TL0009	BL0009307038N34R	9W	240V	-	≥0.95	<10%
LED SPIKE LIGHT - CASTOR						
TL0009	BL0009307038N34S	9W	240V	-	≥0.95	<10%
TL0015	BL0015307058N34S	15W	240V	-	≥0.95	<10%
TL0025	BL0025307058N34S	25W	240V	-	≥0.95	<10%

* Technical data subject to change due to constant improvement in the design, material and LED technology without prior notice.

ALL-IN-ONE SMART SOLAR STREET LIGHT

- Introducing a next-generation smart solar lighting solution, equipped with comprehensive all-in-one intelligent features, set to transform the street lighting landscape and deliver unmatched efficiency and reliability.
- Transrail's All-in-One solar lighting solution delivers high-efficiency illumination through a compact, aesthetically refined design ensuring extended service life, cost-effective.
- Transrail's All-in-One solar lighting solution integrates a solar panel with an inbuilt battery, high-performance LED luminaire, and advanced MPPT technology powered by intelligent firmware. The system also features smart PIR sensing, enabling adaptive lighting based on human presence, making it a truly future-ready solution.
- Affordable, easy installation & Low maintenance.
- MNRE & BIS approved solar panel & Battery.



Applications

- Urban and rural Roads
- Remote locations
- Residential Layout
- Parks
- Public Garden
- Industrial & commercial campuses
- National Highways.

SPECIAL FEATURES

Programmed with Intelligent Dimming profile to manage long battery backup

Intelligent auto ON-OFF function available

CCT: 5500-6500
@ CRI: ≥ 70

Operating Temperature:
0°C to 50°C

Hybrid, Bluetooth & CCMS/RMS options available on request

IK08 & IP65
Qualified product

LM80 certified LED with
longer lifespan @50000 hrs

Operating Voltage:
12V & 24V DC



Electrical Specifications

Product Description	System Wattage (W)	Luminous Efficacy (Lm/W)	Lumens (Lm)
TLL-Venus-AIO	11W – 80W	≥ 180	$\geq 2000 - 14500$
TLL-JUPITER-AIO	90W – 150W	≥ 160	$\geq 2000 - 24000$
TLL-MARS-TIO	11W – 40W	≥ 130	$\geq 1450 - 5200$

STAND ALONE STREET LIGHT

- MNRE-approved solar panels and battery systems
- Integrated (inbuilt) charge controller
- Extensive branch network across India
- Comprehensive range of luminaires for diverse solar applications
- Highly qualified and experienced team of lighting engineers
- Dedicated solar division of Transrail Lighting Ltd
- Supports sustainable and green energy initiatives
- Safe, user-friendly, and easy installation
- Long operational life with minimal maintenance
- Ideal for remote locations where grid power is unavailable
- Requires minimal skilled manpower for operation
- Environment-friendly solution with low operational cost
- Enables energy storage and retrieval capability
- Eliminates the need for trenching, cabling, or external wiring



Applications

- Roads & Highways
- Urban & Smart City Projects
- Industrial & Commercial Areas
- Residential & Township Areas
- Rural & Remote Areas,
- Infrastructure Projects
- Institutional & Government Projects
- Parking & Public Spaces
- NHAI

SPECIAL FEATURES

Programmed with Intelligent Dimming profile to manage long battery backup

Intelligent auto ON-OFF function available

CCT: 2700-6500
@ CRI: ≥ 70

Approve by BIS & MNRE
for added reliability

Operating Temperature:
0°C to 50°C

Hybrid, Bluetooth & IOT options
available on request

IK08 & IP65
Qualified product

LM80 certified LED with
longer lifespan @50000 hrs

Specially designed
optics

Operating Voltage:
12V & 24V DC

BENEFITS

Renewable and independent green energy source

Automated ON/OFF operation

Easy to install and operate

Ideal for rural and remote areas with unreliable power supply

Minimal operational costs

Low maintenance requirement

Designed for long service life

Electrical Specifications

Product Description	System Wattage (W)	Luminous Efficacy (Lm/W)	Lumens (Lm)
TLL-MERCURY-SA	7W – 75W	≥ 150	$\geq 1100 - 115000$
TLL-NHAI-SA	80W – 180W	≥ 150	$\geq 12000 - 27000$

SMART SOLAR FLOOD LIGHT

- Inbuilt MPPT technology powered by intelligent firmware.
- Affordable, easy to install & Low maintenance.
- Suitable for all types of battery.
- Delivers superior performance across a wide wattage range, ensuring versatility across applications.
- Optimized battery voltage configuration enhances efficiency, stability, and overall system reliability.
- Specially engineered optics with high-quality precision lenses ensure superior light distribution.
- Delivers excellent uniformity with wider coverage for enhanced illumination performance.
- MNRE & BIS approved solar panel & Battery

Applications

- Traffic Junctions
- Street & Public Infrastructure
- Remote & Rural Areas
- Sports & Recreational Areas
- Security & Surveillance
- Industrial & commercial area
- Car parking
- Area lighting

SPECIAL FEATURES

Programmed with Intelligent Dimming profile to manage long battery backup

Intelligent auto ON-OFF function available

CCT: 2700-6500
@ CRI: ≥ 70

Approve by BIS & MNRE for added reliability

Operating Temperature:
0°C to 50°C

Hybrid, Bluetooth & IOT options available on request

IK08 & IP65
Qualified product

LM80 certified LED with longer lifespan @50000 hrs

Specially designed optics

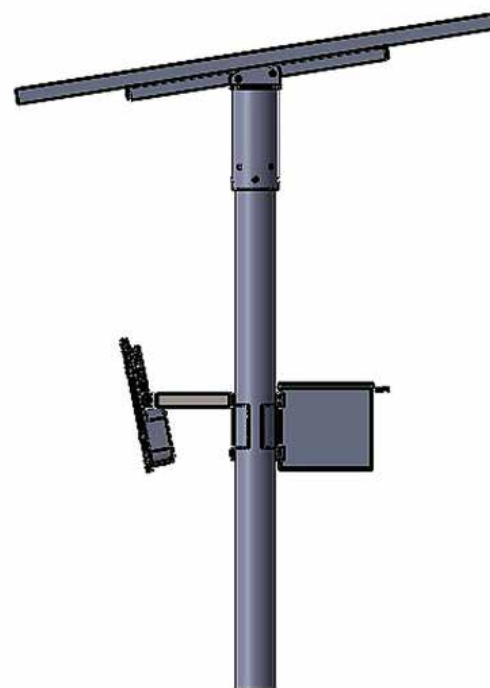
Operating Voltage:
12V & 24V DC

SMART SOLAR HIGHMAST

- Charge controller, battery, and related electrical accessories are mounted on the lantern carriage with a weatherproof construction.
- Equipped with 4 to 6 nos. of LED street and flood lights with IP66 PDC aluminium housing and SMD-type LEDs, delivering >150 LPW.
- Provision of secondary optical lens arrangement for enhanced lighting performance and uniform illumination.
- Available with manual winch or electro-mechanically motorized winch operation.

BENEFITS

- Renewable and independent green energy source
- Automated ON/OFF operation
- Easy to install and operate
- No external cabling or trenching required
- Ideal for rural and remote areas with unreliable power supply
- Minimal operational costs
- Low maintenance requirement
- Designed for long service life



Electrical Specifications

Product Description	System Wattage (W)	Luminous Efficacy (Lm/W)	Lumens (Lm)
TLL-PLUTO-FL	20W – 75W	≥ 150	$\geq 3000 - 11500$
TLL-JUPITER-FL	80W – 150W	≥ 150	$\geq 12000 - 23000$



HIGHWAY SIGNAGE

Engineered structures designed for installation of traffic and information signboards on highways, expressways, and urban roads in compliance with IRC standards.

KEY FEATURES

Designed as per IRC 67 / IS 875 wind load standards

Suitable for **Gantry, Cantilever & Butterfly** configurations

Hot-dip galvanized for corrosion resistance

Designed for high wind zones (up to 55 m/s or project-specific)

Modular design for ease of transportation & erection

Applications

- National & State Highways
- Smart City Projects
- Toll Plazas & Urban Roads



BACKLIT UNIPOLE SIGNAGE

Premium advertising structures designed for high-visibility branding with integrated illumination systems.

KEY FEATURES

High mast monopole structure with **large format display panels**

Provision for **LED / backlit illumination systems**

Aesthetic and sleek design suitable for urban landscapes

Engineered for wind load and fatigue resistance

Customizable sizes and panel configurations

Applications

- Highways & Expressways
- Wayside Amenities
- Urban Advertising Corridors
- Commercial Zones & City Entrances



SIGNAGE MAST STRUCTURES

Vertical mast structures used for mounting directional, regulatory, and informational signage at optimal visibility heights.

KEY FEATURES

- Fabricated from high-grade steel tubular sections
- Designed for single or multiple signage mounting
- Corrosion-protected with hot-dip galvanization
- Suitable for **urban & semi-urban installations**
- Compact footprint with high structural stability

Applications

- Retail Brands, Fuel Stations
- Urban Roads, Junctions & Smart City High Signs
- Industrial Zones, SEZs & Large Campuses
- Toll Plazas, Expressways & Corridors Advertisements
- Airports, Ports & Logistics Parks



SIGNAGE SOLUTIONS BY TRANSRAIL LIGHTING

End-to-end **Design, Engineering, Manufacturing & SITC capability**

Compliance with **IRC / IS Standards**

Optimized for **wind load, durability & long life**

Logistics advantage: **FOR delivery (transportation, unloading, insurance included)**

Proven execution in **large-scale EPC & infrastructure projects**





THE HERITAGE SERIES

Cast Iron Poles

The Gold Standard for Timeless Durability. Our Cast Iron range is designed for projects that require a sense of permanence and history. These poles are virtually indestructible and offer the heavy-weight prestige found in the world's most famous city centres.

KEY FEATURES

High compressive strength, superior vibration dampening, and authentic vintage textures.

FINISH

Zinc-rich primer with a polyurethane (PU) topcoat for maximum rust resistance.

BEST FOR

Heritage sites, luxury townships, and public promenades.

THE ELITE SERIES

Cast Aluminium Poles

Sophisticated Design Meets Lightweight Performance. When elegance requires precision and corrosion is a concern (especially in coastal areas), our Cast Aluminium poles are the premier choice. They offer intricate detailing with a fraction of the weight of iron.

KEY FEATURES

Naturally rust-proof, easy to install, and 100% recyclable.

FINISH

High-quality architectural powder coating in a variety of RAL shades.

BEST FOR

Seaside resorts, modern villas, and upscale commercial hubs.



WHY CHOOSE OUR DECORATIVE POLES?

- Precision Engineering:**
 Every joint is flawlessly welded or bolted to ensure a seamless silhouette.
- Weather-Shield Technology:**
 Our multi-stage coating process involves de-greasing, phosphating, and UV-resistant painting to ensure the colour doesn't fade under the harsh sun.
- Customization:**
 We don't just sell poles; we manufacture visions. We can customize the base diameter, bracket arm reach, and finial style to match your architectural theme.

CORROSION RESISTANCE

Cast Iron	High (with coating)
Cast Aluminium	Exceptional
MS Pipe (Hybrid)	Moderate (Requires Galvanization)

DETAILING LEVEL

Cast Iron	Very High/Ornate
Cast Aluminium	High/Sharp
MS Pipe (Hybrid)	Modern/Modular

WEIGHT

Cast Iron	Heavy / Stable
Cast Aluminium	Lightweight
MS Pipe (Hybrid)	Medium

IMPACT RESISTANCE

Cast Iron	Maximum
Cast Aluminium	Moderate
MS Pipe (Hybrid)	High

STANDARD HEIGHTS

Cast Iron	3M – 5M
Cast Aluminium	2.5M – 4.5M
MS Pipe (Hybrid)	3M – 12M

THE HYBRID SERIES

MS Pipe with Decorative Castings

Structural Strength Meets Artistic Flair. By combining heavy-duty Mild Steel (MS) pipes with decorative casted bases and brackets, we offer a versatile solution that reaches greater heights without compromising on style.

KEY FEATURES

High tensile strength, customizable heights (up to 9M), and cost-effective durability.

FINISH

Seamless MS pipes integrated with ornate casted sleeves and finials.

BEST FOR

Street lighting, highway beautification, and large-scale urban developments.



501 A,B,C,E, Fortune 2000, Block-G, Bandra Kurla Complex, Bandra (East), Mumbai 400051, India. Phone: +91 22 63068400.
Website: www.transrail.in | Email: enquiry@transraillighting.com | Customer Care: support.pole@transraillighting.com