

# Cable that Connects the World



**IC** LASER  
POWER & INFRA

ISO 9001:2015 CERTIFIED COMPANY

## ABOUT US

Established 30 years ago, Laser Power & Infra is regarded as one of India's leading cable manufacturers and EPC contractors. We have built a reputation in India's manufacturing industry with our HT & LT Power & Control Cables, Railway Signalling Cables, Aerial Bunched Cables (up to 33 kV) and AAC, ACSR & AAAC Conductors.

Driven by a passionate spirit to evolve, we have upgraded our HT Cable Plant by setting up a modern and state-of-the-art CCV Plant to serve the needs of our new-age customers. A versatile portfolio and superior quality products have earned us accolades in the list of power players making a mark in the market. From Power, Railways and Telecom to Construction and Defence, our comprehensive range of products cater to a wide and diverse spectrum of market .

We are in the business of integrity and strive hard to uphold the highest manufacturing standards aligning operations with our mission of happy customers. Setting and then exceeding our own benchmarks when it comes to delivering high quality, reliable, advanced and safe products has become our cornerstone.

Our cutting-edge equipment, hardware, software and infrastructure are unparalleled, which aide us in achieving record-breaking turnaround time when it comes to delivering smarter and sustainable products. We are constantly pushing the boundaries of innovation, and are poised to enter international markets in the near future.

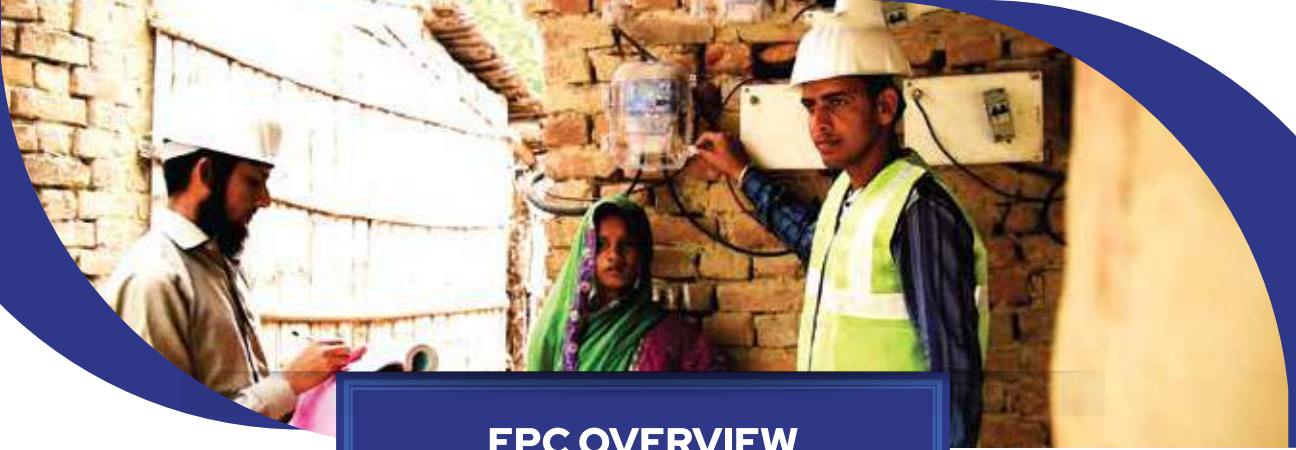


## MANUFACTURING

Area of Plant: Covered – **4.55 Lac sq.ft.** and Uncovered – **2 Lac sq.ft.**

## ANNUAL PRODUCTION CAPACITY

- LT XLPE Cables: **15,000 Kms**
- PVC Cables: **60,000 Kms**
- Railway Signalling Cables: **15,000 kms**
- QUAD Cables: **3000 kms**
- LT Aerial Bunched Cable: **50,000 kms**
- AAC, AAAC, ACSR Conductors: **1,00,000 kms**
- HT Power & Aerial Bunched Cable: **2000 kms**



## EPC OVERVIEW

Laser Power Pvt. Ltd. offers one of the most extensive and innovative line-ups of energy products in India. Our journey, as an EPC contractor for transmission and distribution of power, began three decades ago and is growing stronger every day.

The following underpins the continuous growth of our company:

- 📍 Home to seasoned and dynamic workforce that plays a critical role in planning, engineering, drawing & designing, execution, Quality Control (ISO 9001:2015) and Safety Measures (OHSAS 18001:2015)
- 📍 Strong tie-ups with our clients (PGCIL, NTPC, SBPDCL, NBPDC, WBSEDCL, OPTCL, JBVNL & APDCL) whose continuous support has helped the company cement its position as the industry leader
- 📍 A full-fledged construction division with cutting-edge equipment, tools and testing instruments that ensure high-quality products

Our shining awards-shelf clearly shows that how and to what extent we are shaping the industry with innovations and serving communities with the most energy-efficient solutions. The two most prestigious government-owned corporations in India's Power segment – PGCIL & NTPC – have awarded us the most challenging RGGVY project worth Rs. 603 Cr. In recognition of our dedication to faster delivery timelines, the Certificate of Appreciation and Excellence was conferred upon us by Bihar State Utility during 2017-18.

Innovation is the key to gaining competitive advantage in the Power Transmission & Distribution sector where Laser Power has been a pioneer. We're the proud recipient of consolidated contracts worth approximately Rs. 3500 Cr. across Eastern and North-Eastern India.

Laser Power is at the forefront of Distribution, installing a number of new 33/11kV substations and thousands of Kilometres of 33kV, 11kV & LT line Distribution Transformers. After successfully making a mark in the Power industry, we plan to expand our portfolio and take up Transmission, EHV Network, Solar Power and other challenging projects in the future.







We feel proud of our various endeavours across districts in West Bengal, Odisha, Bihar, Assam, Tripura and Jharkhand.

|   |  |      |         |
|---|--|------|---------|
| 1 | Village Electrified  | NOS. | 12940   |
| 2 | No. of APL & BPL Household Connections   | NOS. | 1521590 |
| 3 | Erection & Commissioning of 33kV HT OH Line  | KMS  | 745     |
| 4 | Erection & Commissioning of 11kV HT OH Line  | KMS  | 15490   |
| 5 | Erection & Commissioning of LT OH Line   | KMS  | 25480   |
| 6 | Laying of 33 & 11kV U/G HT Power Cables  | KMS  | 59.9    |
| 7 | Installation & Commissioning of New 33/11kV Sub-Station including all associated works | NOS. | 64      |
| 8 | Commissioning of 11kV Distribution Transformers  | NOS. | 22571   |
| 9 | Installation of SPV Modules for a total capacity                                       | kWp  | 2250    |

## OUR PRODUCTS

### LT Power Cables: Standards IS – 7098 (Part-I)

LT Power Cable consists of four major components: conductors, insulation, metal armour and protective jacket. The makeup of individual cables varies depending upon the application.

**LASER LT Power Cables** with PVC or XLPE insulation voltage confirm to various Indian and International Standards. XLPE insulated cables are cross linked, mechanically strong and offer better resistance against stress cracking and ageing caused by hot air.

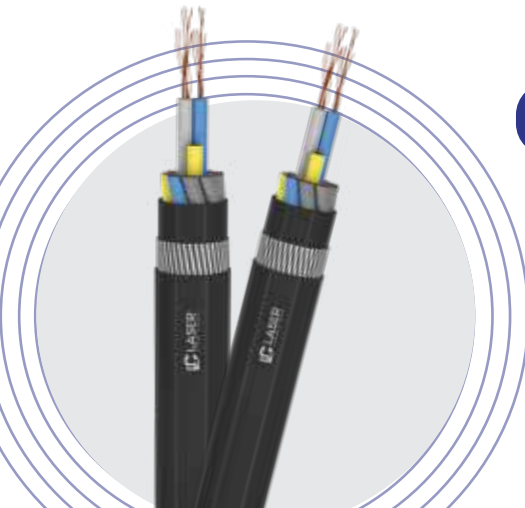
**LASER FRLSH Cables** are manufactured using special compounds for sheathing and are resistive to fire.



### Control Cables: Standards IS – 1554 (Part-I), IS – 7098 (Part I)

Control Cable is an amalgamation of conductors, insulation, metal armour and protective jacket.

**LASER Control Cables** are multi-conductor cables used in automation and instrumentation. These cables are typically shielded with a foil shield, braid shield or combination of the two. LASER takes complete care of the flexibility of conductor while manufacturing it.



### HT Power Cables: Standards IS – 7098 (Part-II), IEC – 60502, BS – 6622

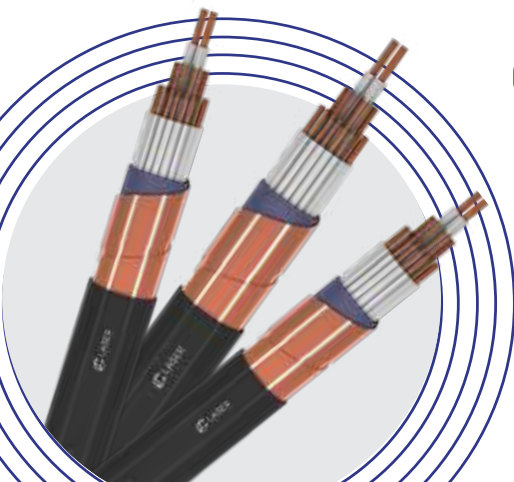
XLPE Insulated HT Power Cables up to 66 kV are designed to comply with a standard set of Indian and International specifications. XLPE insulated cross-linked poly-ethylene insulated cables offer extraordinary strength to withstand high voltages and are used as HT (High Tension) Cables for underground voltage transmission systems. Salient features of these cables include better electrical, mechanical and thermal properties along with the merit of being lightweight.

**FRLSH outer sheath is available on request.**



### Railway Signalling Cable: Standard as per RDSO

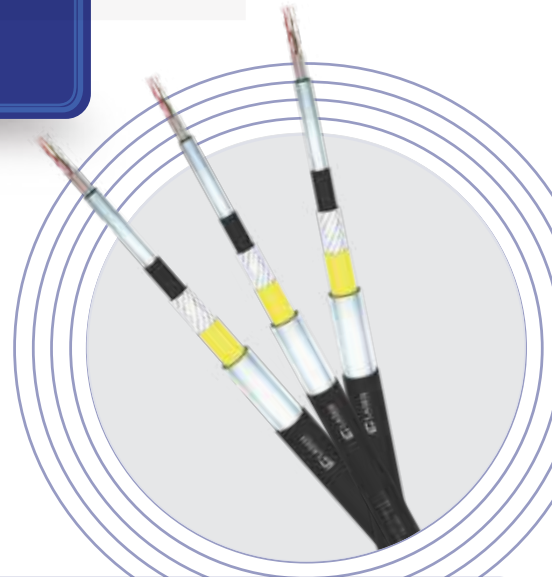
Being one of the largest Signalling Cable suppliers to Indian Railways, our cables contribute significantly to the safety of passengers and cargo. **LASER Railway Signalling Cables** manufactured with stringent RDSO specifications play an essential role in smooth running and connectivity of the railway network, ensuring transmission of signals and continuous power supply.



## OUR PRODUCTS

### Quad Cables: Standard as per RDSO

**LASER** Quad cables are manufactured such that they are in harmony with RDSO specifications. Polythene Sheathed Jelly-filled Cable with Poly-Al moisture barrier is used in providing telephone connections to the subscribers. Jelly-filled quad cables are used for special purposes like control circuits, axle counters etc. in RE and Non-RE areas.



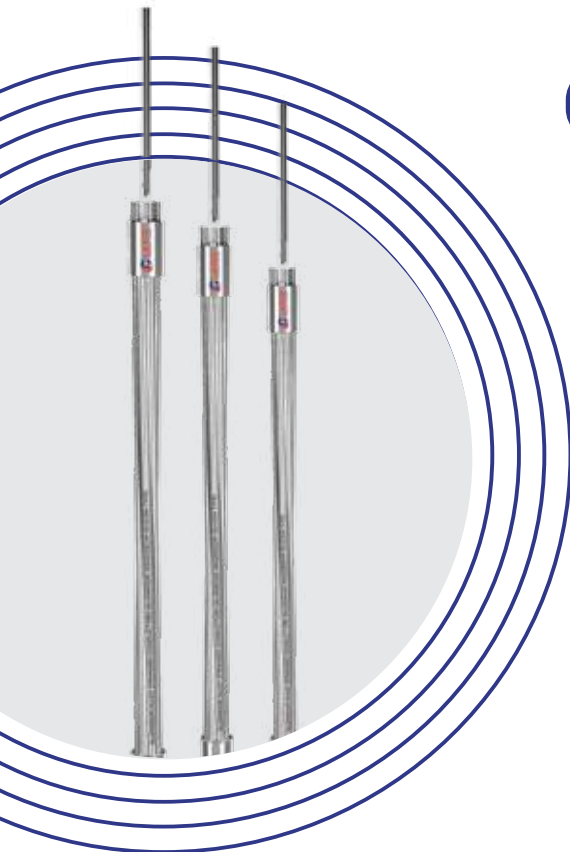
### Conductors: Standards IS: 398-1, 2, 4 & 5

Being the largest conductor manufacturer in Eastern India, we are a leading manufacturer of all types of Aluminium conductors, which include all-aluminium Conductor, Aluminium Conductor Steel-Reinforced and Aluminium Alloy Conductor of National and International Standards, for overhead power transmission lines.

Our conductors are widely known for high tensile strength, corrosion resistance and cost effectiveness. These conductors are manufactured using electrolytically refined aluminium, which has a purity of minimum 99.7 % and is used in transmission lines in rural and grid power distribution.

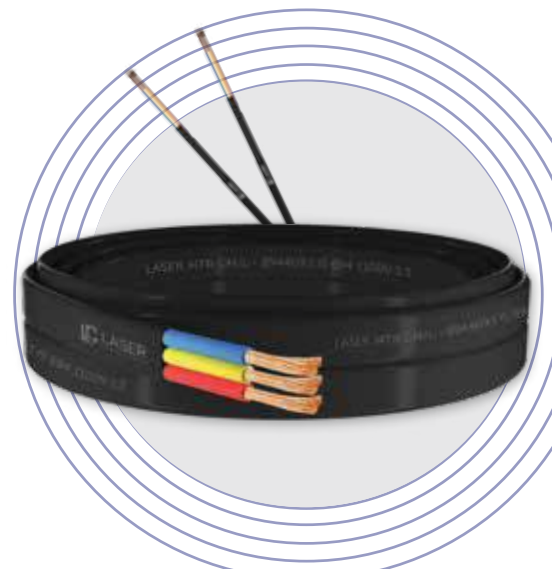
**LASER ACSR** (Aluminium Conductor Steel-Reinforced) is manufactured using high quality steel corewire surrounded by aluminium wire of Indian and International standards. Imparted with properties like durability, high conductivity and low weight, these conductors are widely used in overhead transmission and distribution systems (up to 700 kV Line).

**LASER AAC** (Aluminium Alloy Conductor) is designed and developed using aluminium, magnesium and silicon. These alloys have high electrical conductivity and add to its improved mechanical properties and sag & tension.



### PVC Insulated Copper Cables: ZHFR, HRFR, FR-LSH: Standard IS 694

**LASER** PVC Insulated Single and Multicore Copper Flexible Cables are designed and manufactured for low-voltage applications. This cable finds wide usage in Panel Control Wiring, Industrial and Commercial Building Wiring, Home Appliance Cords, Battery Cable and 3-Core Flat Cable for submersible pumps. Mankind and environmental safety being our utmost concern, all flexible cables are heat-resistant, fire-retardant and emit considerable low smoke.





## OUR PRODUCTS



### Aluminium Wire Rods and Aluminium-Alloy Wire Rods

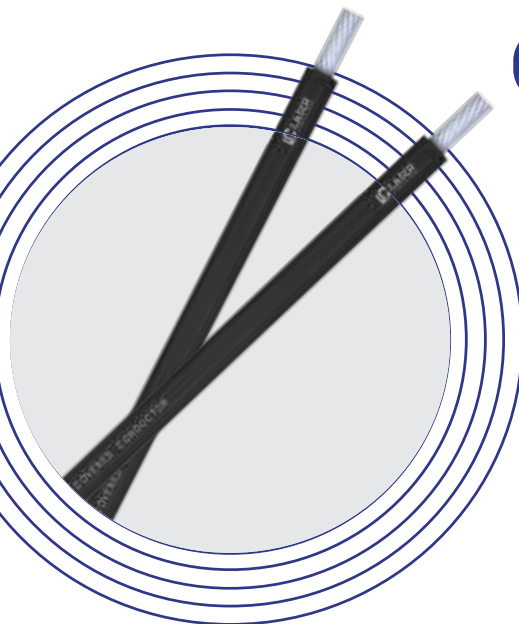
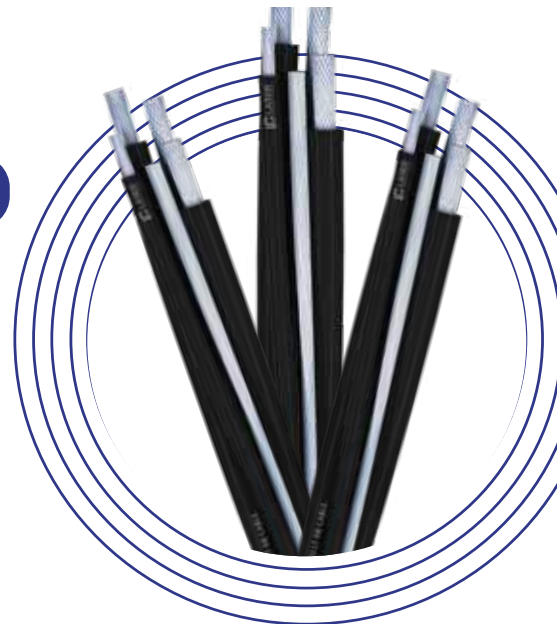
**LASER AI Rods** are manufactured in house with a production capacity of 100 tons per day. Chemical compositions are checked using a Spectral machine so as to achieve the desired specifications of AI & Alloy Rods.

Aluminium Wire Rods of 9.5 mm in EC and Alloy Grade, Aluminium Alloy Wire Rods (6201 Alloy Rods in T-4 & M temper- online solutionized) and Aluminium Alloy 6061.

### LT & HT Aerial Bunched Cables: Standard IS-14255, 7098 - Part II

**LASER Aerial Bunched Cable** is the safest cable for inhabited areas, minimising the risk of electrical shocks. Salient features include high insulation resistance to earth throughout the year, negligible leakage currents, low losses and anti-theft solutions.

It is dubbed as an ideal product for Overhead Power Distribution, which provides higher safety and reliability in comparison to bare conductor overhead distribution systems.



### Covered Conductors : Standard EN 50397 Part 1

**LASER Medium Voltage Covered Conductor** is a safe and economical choice for HT overhead conductor. Covered conductor has a casing of insulated material(s) that acts as a protection against other covered conductors it might accidentally come in contact with and grounded parts such as tree branches, etc. In comparison to insulated conductors, this covering is known for its reduced thickness but is sufficient enough to withstand the phase-to-earth voltage temporarily.

Conductor: Longitudinally water-tight, stranded All-Aluminium Alloy (AAAC) or Aluminium Conductor Steel Reinforced (ACSR)

Conductor Screen: Water swellable semi-conducting tape (if required) and extruded semi-conducting compound; Inner Insulation: XLPE

Outer insulation: UV protected and anti-tracking black coloured XLPE or HDPE

## OUR CLIENTELE

### GOVERNMENT CLIENTS



### PRIVATE CLIENTS



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