



INDIA

Registered Office: Garia, West Bengal, Kolkata-700084

Phone: +91700354957/ +918420411033

Whatsapp: +918420411033

E-mail: [info@technosolengg.co.in](mailto:info@technosolengg.co.in) / [tes@technosolengg.co.in](mailto:tes@technosolengg.co.in)

Website: [www.technosolengg.co.in](http://www.technosolengg.co.in)



**BUSINESS  
BROCHURE  
2022-23**

**TECHNOSOL**  
A Concrete Trail, by Experts

## INTRO

TECHNOSOL has a team of experienced engineers and operational experts. It reflects in the ever increasing list of clients every year. Hassle free consultancy has led this vibrant organization to become a trustworthy brand in the ever-changing Industrial sector.

Ever since our ORIGIN, the technical acumen of our experts from various sectors has enhanced the quality of the delivered projects. Understanding the concrete requirements of our clients has made us indispensable in various sectors like Steel, Cement, Chemical, Oil & Gas, Mining, Power Transmission & Distribution, Renewable energy etc.

Our dynamic workspace has witnessed innovative strategies being developed keeping in mind the psyche and socio economic impact of our heterogeneous clientele in India, the Middle East and other nations.

Industry experts have applauded our relentless efforts in ensuring the sustainability of all our endeavors to safeguard environmental hazards.

Effective design solutions have been the buzzword of engineering in the recent times. Our domain experts at TECHNOSOL spend a lot of time in preparing detailed survey methodologies. It aids in the successful execution of the projects.



## STRENGTHS WE FLAUNT

- Core Engineering Skills
- Flexibility in Adapting to Complex Fall Outs
- Adhering to Strict Safety measures
- Dynamic Concept & Execution for Commercial Projects

## MISSION

Set new benchmarks in dynamic project consultation & execution. Crafting relentless efforts to prepare a hassle free logistics in solving complex challenges.

## VISION

Create an autonomous consultation platform for both individual & corporate players in the Engineering sector.

## OUR TEAM - OUR REAL ASSETS

Our contribution to the ever changing Engineering Universe is beyond consultation. This unique endeavor has been possible only because of a highly excellent bunch of experienced professionals from different sectors. So apart working as per the principles of engineering, our team members acquire innovation to make each and every project sustainable.

We at TECHNOSOL not only deliver sustainable engineering projects, but we also create a wonderful ecosystem wherein our loyal clients can easily modify any single element without any hassle.



## DESIGN TO FINAL EXECUTION

A comprehensive study of the feasibility of each and every element is a vital part of our initiation process. Our technical acumen penetrates deep into the viability of the strategies planned by the owners of the project. It aids us in crafting a clutter free work module.

The transition from the design table to the groundwork involves understanding of the regular availability of technical resources apart from manpower. This process is passionately done in all the different sectors of engineering.

As we approach the final stages of any project, Industry experts, who form an integral part of our team, conduct three important processes:

- 1 EVALUATION
- 2 BUILDING UP A STRONG MECHANISM FOR TECHNICAL ASSISTANCE
- 3 TRAINING MODULE TO ENHANCE THE PROJECT AFTER A CERTAIN TIMELINE TO AVOID DEPRECIATION

# DELVING DEEP INTO THE VARIOUS FIELDS

## OUR SERVICES

### 1. CONSULTANCY SERVICES

All short of project-based engineering and consultancy for pre bid and post bid association to be entertained.

#### TECHNICAL CONSULTANCY

Pre-investment study, feasibility Studies and preparation of detail reports for a green field project. Site Selection & Survey for preparation of conceptual design based on site condition. Prebid engineering support. Preparation of system design and technical specification for Procurement activities, technical evaluation of supplier or sub vendor and FAT.

#### PROJECT MANAGEMENT CONSULTANCY

All types of Project management consultancy services like Budgeting, cost estimation, material chain management, quality assurance and inspection, site supervision, overall project controlling and preparation of detail project report.

#### ELECTRICAL & AUTOMATION SOLUTION

Executes electrical & automation based turnkey projects and provides engineering consultancy services for industries such as: Metals, Coal, Pharma, Cement, Paper, Material handling, Switchyard & Substation, Renewable energy. Our Automation solutions have been standardized under the strong guidance of very experienced experts of respective domains. With such ready to use solution we are highly equipped to give the best optimum solutions to our customers. Expertise on Siemens, ABB, Rockwell, Beckhoff & Mitsubishi System.





## OUR PRODUCTS

### ELECTRICAL PRODUCTS

- Low voltage Motor
- Low voltage Panels
- ACB / MCCB / MCB / RCCB / RCBO
- Low voltage Drives
- High voltage & Low voltage Cables
- Electric wires
- Current Transformer (CT) / Potential Transformer (PT)
- Cable Trays, Conduits and Light Pole
- Commercial, Industrial & Outdoor Lighting Fixture
- Earthing & Lightning protection products
- Industrial Sockets, Plug & Extension
- Commercial Switch, sockets, fan regulator
- Industrial & Commercial fans,
- Cable Lugs & Glands and Accessories
- Cable Termination, Joint & Accessories
- Safety Materials
- Testing & Measuring instruments

### INSTRUMENT PRODUCTS

- Building Management System
- Valves, Gauges and Transmitters etc.



## ELECTRICAL, INSTRUMENTATION & AUTOMATION PRODUCTS

### LT MOTORS

We deal with low voltage single phase / three phase Squirrel Cage Induction Motor for various application of EPC project and MEP project.

**Standard:** LT motor construction complies the guidelines of IS 325 and IEC 60034-28:2012.

**Cooling:** Generally Natural Air-cooling is considered for small rating motor and Total Enclosed Fan Cooling (TEFC) for high rating motor.

**Insulation:** Depending on winding temperature rise insulation class varies from A to H.

Point Tech provides assistance to select the rating of motors according to the actual application and requirement of efficiency class.

## LT PANEL, ACB/MCCB/MCB AND DRIVES

Technosol provides required assistance for Engineering, Designing, manufacturing, assembling and testing from any reputed panel manufacturer or CPRI approved fabricator for LT switchboard and other panels for various industries.

Supply of individual switchgear components (like ACB, MCCB, MCB, RCCB etc.) are also provided as per client's requirement.

**Standard:** Construction of Panel shall be as per IEC 61439-1&2 and other related IEC and IS standards

### Applications:

1. Power Control Centre (PCC) / Power Cum motor control Centre (PMCC)
2. Motor Control Centre (MCC)
3. Lighting Panel (LP)
4. Main Lighting distribution board (MLDB)
5. Fire Pump control panel
6. HVAC Panel

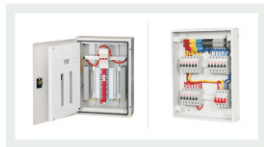


## DISTRIBUTION BOARD

We provide both standard as well as fabricated Distribution Board for industrial and infrastructure project.

Applications:

1. Household lighting and power distribution.
2. As power DB to supply different small equipment.
3. ACDB and DCDB.



## LT CABLES AND WIRES

Aluminium and Copper conductor, XLPE/PVC insulated, Galvanized Steel Flat Strip or round wire armoured and overall extruded PVC sheathed (ST-2), Cables conforming to BS/EN/IEC/IS. These cables are mainly used in all industrial and infrastructure projects. Selection of effective size of cable is important for efficient power management in electrical system.

Optional materials are also available for protection from electrical distortions and defects caused by water, oil, gas and petrochemical penetration such as outer sheathing options containing special additive resins and treatments that act as specific preventives such as "anti-termite", "anti-radiant" or "oil, chemical, gas, alcohol resistance".

### Applications:

1. HT & LT Power Cable: For raw power supply to heavy electrical equipment.
2. Control and Instrumentation cable: For carrying Low voltage or extra low voltage and communication signal to instrument or panel.
3. Flexible unarmoured cable: For accommodating large cable in small space.
4. Telephone, LAN, Coaxial cable: For telephone, Computer, TV and other household and other communication system.

PVC insulated stranded copper conductor single core cables as per BS/IEC/IS for electrical wiring. PVC insulation property is available in the form of FR, FRLS, FRZH etc. Wire is mainly applicable for house building electrical wiring and panel wiring.

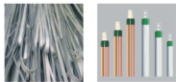


## CT/PT

All type of resin cast and tape wound CTs and PTs used in panel or any other electrical machines to be provided as per customer requirement and range required. Dry and wet type lighting transformer for industrial used are also provided for customer requirement.

## Applications:

1. In HT and LT panel: During manufacturing or repairing and maintenance.
2. Substation/Switchyard project.



## EARTHING &amp; LIGHTNING MATERIALS

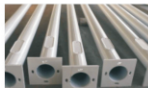
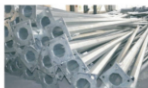
Earthing is a very important system in electrical engineering. To ensure good earthing it is needed proper materials to be used for it. We offer a wide range of earthing & lightning accessories that guarantees the safety of both the equipment and the personnel using them. The items are as follows:-

1. Earth Flat of different sizes
2. Solid & Copper Bonded Earth rods
3. PVC Earth Pits
4. Clamps & Couplers
5. Copper Tape & DC Clip
6. GI pipe electrode (various Dia.)
7. Maintenance free chemical electrode (pipe in pipe and strip in pipe)
8. Copper plate electrode
9. GI/Cu wire or strip of different size
10. Air Terminal in Rod and ESE

## TUBULAR AND OCTAGONAL POLE

Tubular steel pole for streetlight fixing of various height from 7 meter to 16 meter as per BS/IEC/IS. We also supply octagonal street light poles. Poles may be hot dip galvanised or painted as per project specification and customer requirement.

Solar Street Light: We also deal with solar street light pole with inbuilt solar panel, battery and light fixture.



## CABLE TRAY AND CABLE MANAGEMENT SYSTEM

Hot dipped Galvanized ladder or perforated type cable tray of different sizes from 50mm to 900mm width available as per client's requirement. These trays are used in industrial projects. Sheet thickness and collar height are variable as per customer's requirement. Construction of ladder cable tray conforms IEC-61537. The material provides the structure with the rigid, heavy load bearing capacity.

Wire Mesh Cable tray: We also deal with a low weight, galvanised or powder coated wire mesh cable tray are used for house building and other infrastructure project. Features of this tray are easy installation, easy laying of cable, dust-debris free and releases heat faster.





### LED LIGHT FITTINGS

LED based illumination is the most effective application in the present days due to its low energy consumption, look, lightweight, easy fixing and longevity. Various type of industrial, domestic, commercial, indoor and outdoor type LED light fittings are available as per client's requirement.

#### Application:

1. Industrial Lighting: Indoor as well outdoor illumination of plant.
2. Building Lighting: Indoor, periferal and different landscaping lighting.
3. Road Light: Illumination of different road

### FANS

Availability of various type of household and industrial fans for different applications. Domestic purpose decorative ceiling fan, heavy-duty exhaust fan, wall mounted fan, pedestal fan etc. are our range of supply. Also, provide various type medium and heavy-duty industrial purpose exhaust fan, air circulation fan etc.

#### Application:

1. Industrial: Heavy duty Exhaust Fan, air circulator, ventilation fan etc.
2. House building application: Ceiling Fan, Exhaust fan, Wall mounted fan etc.



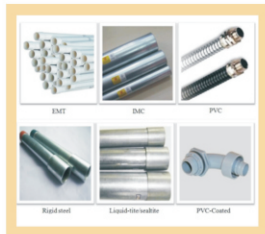
### MODULAR SWITCH & SOCKETS

Modular type switch, socket and other accessories with hot dip Galvanised box are available as per customer's requirement. All latest design and premium quality switching accessories for house building, office, cate etc.



### CABLE TERMINATION, JOINTS AND ACCESSORIES

We deal with 11/33 kV Straight through Joint & End termination kit as per customer's requirement.



### CONDUIT

Conduit are used to carry small size cable or wire through underground, building concealed wiring, structural building etc. Conduit may be of different material like PVC, GI, MS according to the location of application. We deal with all above conduit of light, medium and heavy-duty category and their flexibles.

### CABLE GLANDS, LUGS & OTHER ACCESSORIES

Cable lugs and ferrules are connecting devices used primarily for terminating and joining cable and wire conductors in electrical installations and equipment. All size of high quality double or single compression brass metal cable/PVC/Aluminium/Stainless steel gland and copper or aluminium lugs as per cable rating are supplied as per customer requirement. Also, provide cable hoods for outdoor applications.



### FLAMEPROOF LIGHT FITTINGS

For hazardous area application: FLP light fixtures with LED light.

### INSTRUMENTS

We deal with various type of instruments that are used in process industries like oil & gas, cement plant, power plant etc.





**SAFETY MATERIALS**

Insulation mat of HV and LV grade 6.6kV to 132kV grade discharge rod, Gloves, Shoes, helmet etc.

**INDUSTRIAL SOCKETS, PLUGS & EXTENSIONS**

We deal with Industrial sockets, plugs & extensions suitable for the needs of all segments and all kinds of environments, both indoor and outdoor use. Further accessories include switches, earthing contact DIN-rail, fuse and a further protective casing.

**ELECTRICAL MEASURING INSTRUMENT**

We deal with various types of digital-measuring instrument of different reputed manufacturer as per clients requirement.

Digital Multimeter, Digital Megger, Insulation tester, clamp meter etc.





#### SWITCHYARD HARDWARES

On requirement basis we provide switchyard hardware materials and also provide tailor made hardware against design.

#### FLAMEPROOF PANEL / JB / LPBS

FLP products like JB / Panel / LPBS / Socket etc. as per the project requirement and its use.



#### FRP JB / METER BOX

FRP is the latest trend of advance engineering. We provide various type of FRP enclosures as per clients requirements, FRP fencing and portable stairs.

