



*Empowering the Power with  
New Generation Products & Solutions.*

**Techno Group, a pioneer in the**  
**Transmission & Distribution**  
**Industry**

It is one of the fastest growing ISO-certified manufacturing units in the nation, specialized in the manufacturing of Electrical Power distribution Equipment by serving the entire India.



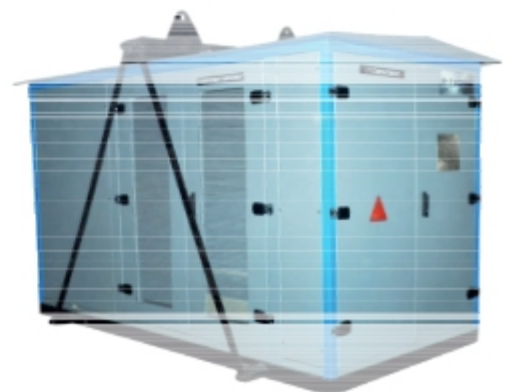
**Specialized in Manufacturing of**



**HT Panels.**



**LT Panels**



**Compact Substations**

**Equipment Serving Across Nation**

## About Us

**T**echno Group, a pioneer in the Transmission & Distribution Industry, was established in 2016,

under the leadership of its **Founder, Mr. Ankit Gupta**, also being the Director, who has an experience of 16 years of working in this industry with some reputed organizations. like ABB, Schneider, CG

By establishing our footprints strong in the industry, we have provided the power solutions, electrical consultancy, and trading services to all of our clientele, whether the Government, Utility, or Industry, with our simple & customized yet elegant technical solutions as per the requirements of our customers across the globe through our expertise in manufacturing, consulting & a Solution provider.

Since its inception, the group has grown from a team to a determined team of more than 30 well-qualified technical employees, having extreme expertise in their work, enabling the group to **supply 1000+ products** to over **500 satisfied customers** in such a short period.

We, at Techno Group share a firm belief in fostering partnerships with the customers by offering customer-centric Solutions rather than just selling the products .



As a Group, we are moving forth with a mission of providing complete technical support, from the first pre-selling day to the end day of after-sales services, to all our existing & future prospective customers.

**Today Techno Group Stands Sky High with Two Companies Under its Name Functioning in Two Discrete Areas.**



### TECHNOSOL ENTERPRISES

M/s TECHNOSOL ENTERPRISES, signifying Technical Solutions, was the first firm of the group aiming to solve the Electrical Power Transmission and Distribution Problems by offering Electrical Consultancy, Trading, and Contracting Solutions with its wide range of product offerings.



### E-TECHNO Switchgear Pvt.Ltd.

E-TECHNO SWITCHGEAR PVT LTD. is a relatively new firm aiming to operate as a manufacturing hand of the group with its Head Office and Manufacturing Base located at Govindpura, Bhopal (M.P.)



## Mission

Our mission at Techno Group is to deliver innovative solutions, with the maximum customer satisfaction ensuring quality power while providing effective protection to the personnel and equipment.

## Values

Techno Group focuses on its core values that helped us to deliver to the next generation needs and requirements by constantly improving our current available resources.



### Technical Elegance

Our whole vision is to provide technical solutions to the daily power distribution and transmission problems, and thus we pursue to enrich our products and solutions with technical elegance through our expert, technical & sound team, allow's us to offer our customers an innovative solution for their problems.



### Innovation

The world demand is changing dynamically than ever and so our customers, which can be catered only by providing the best solution to their problems with a never ending innovation and **Luckily we got that in our DNA.**



### Customer Centricity

For us meeting our customer requirements and demands is a top priority and thus our team works closely with our customers to understand their requirements & provide solutions/products accordingly by meeting their expectations.



### Enrichment

We feel elated when we can improve our customer experience by enriching our products by offering more than the basic utility of it and going beyond to meet every requirement of their needs similarly like an icing is put over a cake.



### Commitment

On time delivery is one of our parameters, and we have our utmost focus on meeting our committed deadlines to our customers fulfilling all their demands, because we believe that deadlines are like nightmares which end unfinished, leaving us with an unsatisfied feeling inside.



### Skill Enhancement

As our customers, our employees also hold an important place for us and thus we make sure to help them to work upon their skills and its enhancement to meet the growing needs of the industry and not to let them feel left alone to keep supporting the group as a backbone as they have been doing



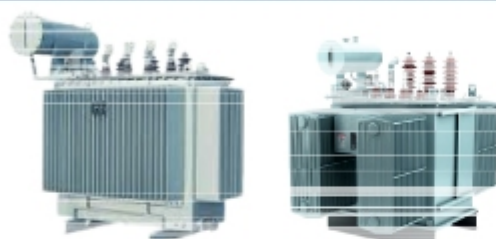
## Product Portfolio :-

## MANUFACTURING PRODUCT RANGES UNDER TECHNOSOL ENTERPRISES

We strive to meet all the needs of our customers with the wide range of products & services for our customers with the help of our both the hands i.e. Technosol Enterprises and E-Techno Switchgear Pvt. Ltd.

### Specialized Products:

| Product - | Transformers<br>(Power & Distribution)  | MV VCB Panels<br>(Including Indoor Panels & Outdoor Kiosks) | Ring Main Units<br>(RMU's)<br>(All Board Specifications)              | Compact Substations                                                                                                               | EHV Switchgears<br>(Breakers, CT/CVT/IVT<br>CRP/Isolators/LA) |
|-----------|-----------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Range     | From 3.3kV, 200 kVA to 132/33kV, 50 MVA | From 3.3kV to 33kV, 630 Amp 25kA to 3150 Amp or 25kA        | Indoor/Outdoor 11kV, 22kV & 33kV RMU's<br>(All possible combinations) | <ul style="list-style-type: none"> <li>From 200kVA, 11kV to 2500kVA, 11kV,</li> <li>From 315kVA, 33kV to 2500kVA, 33kV</li> </ul> | From 66 kV upto 400 kV                                        |



Distribution

Power

### Transformers



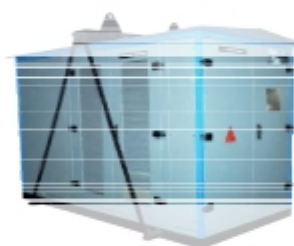
Outdoor Kiosks

Indoor Panels

### MV, VCB Panels



### Ring Main Units (RMUs)



### Compact Substations



Isolators



LA



CT



CVT



IVT



CRP

### EHV Switchgears

## Generic products :-

- Outdoor VCB's & Substation Equipments  
(like Control & Relay Panels, CT, PT, LA and Isolators with fastest deliveries)
- LT & HT Motors  
(Induction, Slip Ring, Vertical & Horizontal Motors)
- LT & HT Cables
- LT & HT Capacitors
- Power Quality Solutions & Energy Management Solutions



LT &amp; HT Motors



LT &amp; HT Capacitors



Outdoor VCB

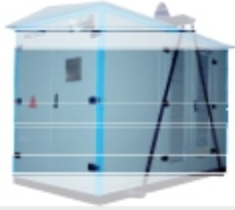


LT &amp; HT Cables



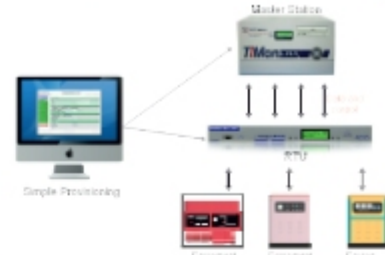
Power Quality Solutions

### Indoor/Outdoor VCB Panels

**Product Portfolio :-**
**MANUFACTURING PRODUCT RANGES UNDER E-TECHNO SWITCHGEAR PVT. LTD**

**Compact/Package Substation**

**Feeders Pillars**

**LT MCC/ PCC PANELS**

**Medium Voltage  
VCB Panels (MV Switchgears)**

**Power SCADA Solutions**
**COMPACT SUBSTATIONS**

Compact Substations, also termed as CSS/PSS/USS, is designed to provide safe, reliable, compact, and economical power distribution for Power Utilities, Multiplexes, Townships, Hospitals, Software Parks, Residential Complexes, shopping malls, Government Offices, etc. by meeting every requirement of all and customizing as per the power utility demand of the clients.

Compact Substations are widely used for Power Distribution in a modern/ classy way by benefitting the buyer consumer by saving lot of space and are much reliable distribution solution compared to Conventional Over head Lines with transformers mounted on H beams. Compact Substations as its name suggests, are so compact, that it saves atleast 75% of the space taken by conventional substations, though have other advantages too.


**VCB**  
(Vacuum Circuit Breaker)

**Electrical Transformer**

**LT Panel**

**COMPACT SUBSTATION**

## Salient Features of Compact Substation :-

- Customizable design per the requirements with two options available in transformer design: Oil type or Dry type (*Cast Resin*).
- Protection against theft with Smart PSS.
- Ready to Install, Eco-Friendly, and Economical with low maintenance.
- Aesthetically appealing while saving 75% space against Conventional Substations.
- Doors on every side of Substation for convenient maintenance with proper padlocks.
- 2mm thick painted CRCA/GI enclosure mounted on a 4mm thick base frame.
- Proper Compartmentalized partitions between MV, LV & Transformer compartments.
- Gasket/ Stiffeners provided as required. Internal lighting facility provided.

## Add-ON Optional Features

- Compatibility with Data Acquisition System (DAS) to link and monitor it with any Bluetooth/Wi-Fi devices.
- Safety Hooters for the outdoor substations to ensure its safety against theft.
- Fault Passage indicators to locate fault in cables b/w two interconnected CSS.
- Option to link devices to the CSS to get notified when anyone tries to enter the substation.
- APFC Panels
- LV & MV Metering



## Product Configurations : -

The compact substations can be customized as per the requirement of the site power utilization capacity from 11kV, 200kVA & ranging to 2000kVA for both 11kV & 33kV, comprising of the following equipments:



33kV

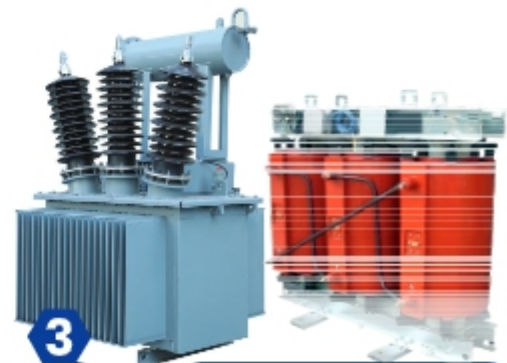


11kV

2



**LV Switchgear or  
LV Panels**



3

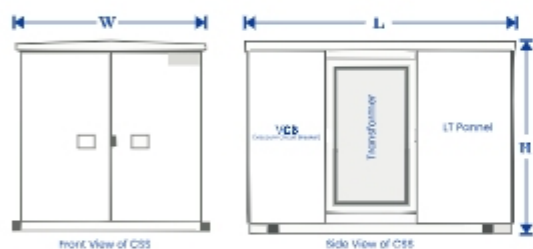
**Distribution Transformers, which  
are available in both  
Cast Resin OR  
Oil type Transformers subject  
to customer requirement .**

1

**MV Switchgears as per  
PSS Ratings, mainly of 11kV &  
33kV Ring Main Units (RMU's).**

## Technical Specification

| Max HT Voltage                                   |     | 11kV      | 33kV      |
|--------------------------------------------------|-----|-----------|-----------|
| Standard Applicable                              | IEC | 62271-202 | 62271-202 |
| Transformer Rating                               | kVA | Upto 2500 | Upto 2500 |
| LT Voltage                                       | V   | 433       | 433       |
| Short Circuit Breaking Capacity                  | kA  | Upto 21   | Upto 25   |
| Frequency                                        | Hz  | 50        | 50        |
| Ingress Protection of HT & LT Compartment        | IP  | IP54      | IP54      |
| Ingress Protection Class Transformer Compartment | IP  | IP34/IP23 | IP34/IP23 |
| Enclosure Class                                  |     | K10       | K10       |

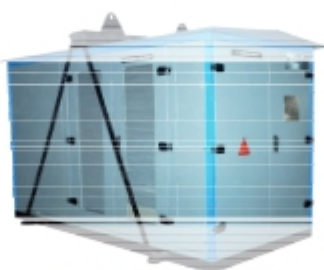


Dimensions of the Compact Substations across the Various Ranges

| Ratings (in kVA) | L    | W    | H    |
|------------------|------|------|------|
| 200              | 2700 | 1800 | 2200 |
| 250              | 3000 | 1800 | 2200 |
| 315              | 3250 | 1800 | 2200 |
| 400              | 3250 | 1800 | 2200 |
| 500              | 3500 | 2200 | 2300 |
| 630              | 3500 | 2200 | 2300 |
| 1000             | 3800 | 2650 | 2500 |



Front View of CSS



Side View of CSS



### Advantages : -

- Saves 75% of the space than conventional substation.
- Ensure high safety of Operators, Personnel, and Equipment on site.
- Easily Mobile in nature to transfer from one place to another.
- Reduction of power losses with self-powered relays with low power consumption

## Packaging & Transportation :-

- Package Substations are delivered with a protective packaging while transported through road, where lifting lugs with the complete Beam is provided to ensure proper and safe Loading/Unloading practices of the transported product.
- When transporting through the sea, sea worthy packing is done as an option on request.
- The PSS is delivered completely equipped with Transformer, LT Panel & HT panel with Interconnections of LT side with help of Busbars with Transformer & Transformer with HT RMU via cable with termination kit. Only External Cable connection with termination to Incomer is required at site.



## LT PANELS

We offer LT panels that are engineered using high grade material. LT panel is a perfect example of excellence and performance, We keep an uncompromising endeavor towards perfection, quality and customer satisfaction in manufacturing LT panel. Our range of panels is suitable for high operational voltage and distribution system and finds application in power and motor control centers and other electronic devices.

## LT SWITCHBOARDS

|           |  |             |  |                              |  |           |  |           |  |
|-----------|--|-------------|--|------------------------------|--|-----------|--|-----------|--|
| PCC PANEL |  | APFC PANEL  |  | MOTOR CONTROL<br>PANEL (MCC) |  | BUS DUCT  |  |           |  |
| PLC       |  | SCADA PANEL |  | VFD PANEL                    |  | AMF PANEL |  | CRP PANEL |  |



## LT PANEL

# Our Manufacturing Product Ranges

| Products          | Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PCC PANEL</b>  | <p>We offer PCC panel with</p> <ul style="list-style-type: none"> <li>• Range upto <b>6300 A, 80KA, 690 V</b></li> <li>• PCC With single/multiple incomers, bus couplers with proper interlocking</li> <li>• Required protection, fault indications, interlocking is provided</li> <li>• Various designs are offered in PCC like top, Middle, Bottom horizontal bus chamber,</li> <li>• Panel with aluminum copper bus bars, top/bottom/ front/rear cable termination, combinations of APFC Part with PCC.</li> </ul>                                                                                                                                                                                                      |
| <b>APFC PANEL</b> | <p>Rated Volatge: <b>415V-440V/50Hz</b><br/>(Design available for <b>380V, 480V, 690V, 750V - 0/60Hz</b>)<br/>Capacitors : Normal Power, Super Heavy Duty Series used are rated at <b>525V, 690V and 880V, 50/60Hz</b> as per network voltage</p> <ul style="list-style-type: none"> <li>• Available with Tuned, <b>7%, 5.6%, 4%</b> or any other Tuning frequency as per customer request</li> <li>• Highly intelligent micro processor based 3 phase P.F. Controller with Dual P.F. Setting and Master Slave modes</li> <li>• LCD Controller has inbuilt with Load Manager with front optical port</li> <li>• Optional plugable Data Logger, Ethernet, USB, Rs485, GSM modem and capacitor protection modules</li> </ul> |
| <b>MCC PANEL</b>  | <p>Rating : <b>3 Phase, 415 V AC , 50 Hz , Rated Current Up to 3200 Amp</b></p> <ul style="list-style-type: none"> <li>• Single front &amp; double front construction.</li> <li>• Multi-Tier compartmentalized Circuit Breaker Panel</li> <li>• Doors can be hinged on either side offering greater flexibility to configure the panel as per the site conditions.</li> <li>• Manual/Auto/Remote accessibility.</li> <li>• Provision for BMS Compatibility.</li> </ul>                                                                                                                                                                                                                                                     |



**PCC PANEL**

**APFC PANEL**

**MCC PANEL**

# Our Manufacturing Product Ranges

| Products            | Range                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BUS DUCT</b>     | We offer an LV and HV custom built bus duct for various applications like power generation, distribution, mining etc. our bus ducts are designed to meet the fault level of the system. Bus ducts above 3000 Amps current rating are made out of Aluminum enclosure, with option of copper or aluminum bus bars.                                              |
| <b>PLC PANEL</b>    | Some of the areas of application of our products include: <ul style="list-style-type: none"><li>• Processing units</li><li>• Hydro Power Plant</li><li>• Factory automation</li><li>• Steam Power Plant</li><li>• Pumping application</li></ul>                                                                                                               |
| <b>SCADA SYSTEM</b> | Data acquisition begins at the RTU or PLC level and includes meter readings and equipment status reports that are communicated to SCADA as required. Data is then compiled and formatted in such a way that a control room operator using the HMI can make supervisory decisions to adjust or override normal RTU (PLC) controls.                             |
| <b>VFD PANEL</b>    | We design and manufacture a diverse range of VFD panels for varied applications (closed-loop and open-loop applications). <ul style="list-style-type: none"><li>• AHU / Chiller control</li><li>• Pump / Motor / Blower speed control</li><li>• Reactor control</li><li>• Conveyor / Crane system</li><li>• Remote / Local / Bypass control options</li></ul> |



**BUS DUCT**



**PLC PANEL**



**VFD PANEL**

# Our Manufacturing Product Ranges

| Products                                                   | Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AMF PANEL</b>                                           | <p>Available for <b>5-250 KVA</b> Rating<br/>3-Phase</p> <ul style="list-style-type: none"> <li>• Contactor type panel</li> <li>• Ambient Air Temperature &lt;50 C</li> <li>• Power Consumption &lt;3 W</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Control Metering &amp; Protection Panel (CRP Panel)</b> | <p>We manufacture 2 types of CRP panel</p> <p><b>11KV Switchgear:</b> 11kV switchgear products are used for the protection of power generation &amp; distribution in electrical equipments.</p> <ul style="list-style-type: none"> <li>• Transformer protection</li> <li>• Generator protection</li> <li>• Feeder protection</li> <li>• Capacitor switching</li> </ul> <p><b>33KV Switchgear:</b> 33kV switchgear products mainly used to protection of power transmission electrical equipments.</p> <ul style="list-style-type: none"> <li>• Transformer protection</li> <li>• Feeder protection</li> </ul> |



**AMF PANEL**



**CRP PANEL**

## OPTIONAL FEATURES

- Customizable LCD/LED Displays
- Energy Efficiency Monitoring (EMS)
- Automatic Power Factor Correction (APFC)
- Real-time Load Monitoring
- Arc Fault Detection and Protection
- Ground Fault Protection
- Modular Design for Easy Upgrades
- Plug-and-Play Connectivity
- Surge Protection Devices (SPDs)

## OUR TESTING SERVICES

- Continuity Testing
- HV Tester up to **75 kv**
- Megger testing upto **5000 V**
- Relay test Kit
- Secondary injection Kit - **1000 A**



**MEGGER KIT**



**RELAY TEST KIT**



**HV TEST KIT**



**SECONDARY CURRENT INJECTION KIT**

## Our Associated Vendors: -



## Our Satisfied Customers



& many more..

Contact Us ☎ 9975781180, 7709768571



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etechno.switchgears@gmail.com

### Registered Address

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### Communication Address

📍 Plot No 16, Jadon House, IInd Floor, Sahyog Vihar, Rohit Nagar, Bhopal (M.P.) 462039, INDIA

### Factory Address

📍 Shade No 36, 143-A, Sector-H, Industrial Area, Govindpura, Bhopal

www.technosolent.com