

**POWERLITE**  
electricals

Have low loss power transformer  
AN ISO 9001 : 2015 Certified Company

**Manufacturer & Repairer Of All Kind Of  
Transformer & Package Sub-Station (CSS).**

## VISION AND MISSION

“Powerlite Electricals” is a multi-discipline firm with national and international experience and expertise dedicated to excellence in manufacturing, repairing and servicing of Transformers and Compact Sub-Stations.

“We as a team Powerlite, want to set an ecosystem to strengthen our capabilities of Manufacturing, Repairing & servicing. Our motto is to satisfy valuable clients with our service facilities to meet client requirement with our products. We not only want to satisfy our clients but to serve them our uniqueness which would also make us stand in this competitive market.”

## ABOUT US

Powerlite Electricals was established in the year 1982 in repairing and servicing of Transformers. We have started manufacturing Transformers in the year 2002 and compact substations in the year 2017. We are Providing Our Excellent solutions in the Field Since 1982. We are one of the Leading manufacturers in Gujarat. Consisting of all in-house Testing Facility with Latest Equipments. We are dealing in the manufacturing, repairing and servicing of Power Transformers, Distribution Transformers, Solar Transformers, Furnace Transformers and Package Sub Station (CSS) under the brand name "POWERLITE ELECTRICALS".

We manufacture oil filled Transformers up to 25 MVA in 66 KV class and package Sub-Station (CSS) up to 5 MVA in 33KV class. We design and manufacture a complete range of Transformers and Compact Sub-Station as per relevant IS & IEC. We provide the best service after selling the product In both the segment. We purely believe in quality and backed up by after sales services & installations.

We are Looking Forward For Making The Company Re-owned in Our Field We are One of the Oldest in this field. We have served our costumers since 1982 with excellence we would carry it further with great care and also looking further to develop it through out India and also in outside countries. "Our Team is Our Strength and Our Relation is Our Identity"



**Proprietor - Mr. Kinjal Patel  
(B.E. Electrical)**

To be successful, you have to have your heart in your business, and your business in your heart. We are looking forward to developing our Business in other countries & also in different sectors. Our team is looking forward to it.

(Business Developer)

Growth is never by mere chance; it is the result of forces working together. We work as a Team and our work defines it better than our words. Our Team is our Strength and we together make the Company.

(General Manager)

## CORE STRENGTH

- Young, Dynamic, Result Oriented and Techno savvy Professionals. Best testing facilities.
- Fastest in manufacturing as well as in repairing & servicing of All kind of Transformers and Compact Sub-Stations.
- We are getting updated day by day with all the latest standards, design, technology and equipments.
- Specialized in all type of transformers manufacturing and repairing.
- Our products are having low life cycle cost.

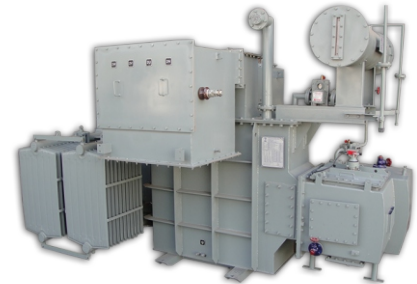
## RANGE OF PRODUCTS:

- Power Transformer.
- Distribution Transformer.
- Package Sub Station (CSS).
- Furnace Transformer.

- Solar Transformer.
- H.T Panel
- L.T Panel.
- NIFPS.

## DISTRIBUTION TRANSFORMER

- Duty Type, Outdoor / Indoor, Pole or Ground Mounted.
- Voltage Class 0.433, 1.1, 2.2, 3.3, 6.6, 11, 22, 33 kv or any Specific.
- Frequency 50/60 Hz.
- Vector Group Dyn 1 or Dyn 5 or Dyn 11 or any specific.
- Insulating Fluid PCB Free Mineral Oil, both inhibited & uninhibited.
- Standard fittings as per IS/IEC and customer requirement.
- Class of Insulation-Class A.
- Off circuit tap changer or On load tap changer

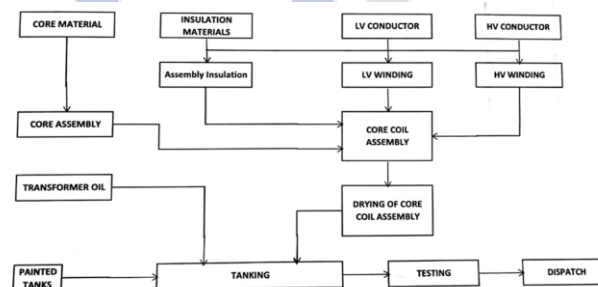


## POWER TRANSFORMER

- 3 phase, 50 Hz in voltages of 11kV, 22kV, 33kV, 66 kV.
- Tapping of the OLTC or OCTC will be according to Clients Requirement.
- Class A, uniform/non-uniform insulated& Paint as per IS/IEC standards.
- Both HV & LV side outdoor bushings or cable boxes as per requirements
- Cooling radiators/fans.
- Standard fittings as per IS/IEC standards.
- Scada base Marshalling box to house oil temperature indicator and winding temperature indicator.
- Cooling control unit
- Nitrogen injection fire protection system provision.
- Use mineral oil or synthetic oil as per specification.



## MANUFACTURING PROCESS OF TRANSFORMER:



## TESTING FACILITIES

### Routine Test:

- Ratio.
- I.R Values.
- No load loss Test.
- Load loss and Impedance Test.
- Separate source voltage Test.
- Vector Group Test.
- Winding resistance.
- Induced Over Voltage Test.
- Magnetic Balance Test
- Hipot test

### Special Test:

\* Any of the special test can be arranged on special requirement of customer.

### Type Test:

- Temperature Rise Test (Heat-Run Test).
- Zero Phase Sequence Impedance Test.
- Dynamic Short Circuit test.
- Impulse Test.
- Oil Leakage test.

## COMPACT SUB STATION

### **Description**

•The substation is a compact enclosure consisting of MV Breaker, a Transformer and an LT switchgear located in three separate compartments which are segregated from each other by means of partitions in order to ensure personnel safety. They are designed to be compact & placed in the areas Like city areas so that it could save the space and as well as economical solution.

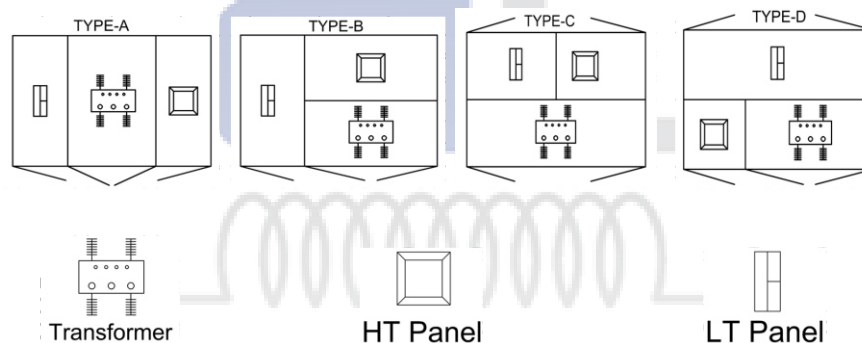


### **Specification:**

- All the CSS are been manufactured according to the standard IEC: 62271-202.
- The degree of protection IP54 for HT & LT compartment and IP23D for Transformer compartment.
- Completely well Designed for better Performance.
- Every Parts is been Housed Completely in safety and been protected.
- Opening (Doors) for Every Necessary part of the CSS.
- Designed for Best Cooling of the System.
- The Breaker & Switchgear will be According to the Client's requirement.
- Components are Light in Weight and Detachable.



## VARIANT TYPE OF CSS



## POWERLITE ELECTRICALS

### Transformer

- Designed for 20 years of trouble-free performance
- Designed according to IS 1180, IS 2026, IEC 60076, ANSI, CBIP, NEMA and other relevant standards.
- It has above 99% efficiency.
- Low power loss and low level noise.
- Designed to withstand electrical impulses and thermal and dynamic stresses.
- Optimum utilization of active materials for compactness.
- Modern manufacturing techniques ensure cost effectiveness and reliability.

### Compact substation

- Reduced electrical losses as css can be installed near the load center.
- Easy to install, operate & require very less maintenance.
- A high degree of safety & operational reliability is achieved by HT & LT switchgear with protective relays.
- Due to the enclosed construction, it avoids bird hit, human / animal contact which may lead to fatal accident and disruption of power supply.
- No separate room is required.
- Designed for indoor & outdoor application.



## VALUABLE CLIENTS

## PACKAGED SUBSTATION



**Ready Tr  
for PSS**



**HT & LT  
Breaker in PSS**



**Arrangement inside  
PSS**



**Ready PSS**

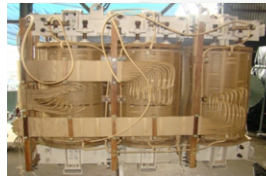


**Installed PSS**

## TRANSFORMER



**Winding**



**Core Coil Assembly**



**Ovening**



**Tanking**



**Ready for dispatch**

## CONTACT US

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