

SYNERGY ELECTRICALS

Complete Power Distribution
& Protection Solution



ABOUT SYNERGY

Synergy Electricals, set in the year 2012, is an emerging company that practices manufacturing and supplying Control Panels and Boards. We carry extensive expertise in presenting best in class VCB Panels, ACB Panels & DG Synch Panels We are one of the leading electrical control panel manufacturers in Delhi NCR, India Synergy Electricals has a talent, that is vibrant, trained from different academic backdrops, highly experienced, and honored with the equal enthusiasm to add significance to the company. Our team consists of accomplished control panel designers, quality assurance specialists, skilled marketing personnel and hard-working workforce, specially trained for making high-quality electrical control panels. Everyone in our team is interested in exploring new extents of progress by embedding sound efforts in their particular job functions.

Our infrastructure comprises of a wide-scale production facility, which have boosted our productivity to serve bulk requirements of customers with supreme perfection. Owing to our very skilled and enthusiastic designers and engineers, we are able to serve best in class control panels at trivial price tags. Moreover, with their supply under lowest stipulated time has presented us one of the most esteemed names in the market. The able business values and full assurance of highest client fulfilment have authorized us to maintain strong long-term relations with clients

About Vision & Mission



OUR MISSION

To offer Best In Class Products and Services with affordable pricing.



OUR VISION

Becoming valuable Entity for all stakeholders



OUR VALUE

To be open, honest & fair whatever we do

Why SYNERGY??

- Team of Skilled Engineers
- CPRI Type Tested Panels
- Quality Oriented Approach
- Single Window Concept
- Competitive Pricing
- Dedicated Service Team
- Design as per Site Requirement
- Use of A Grade Copper/ Aluminum/ CRCA
- Serving our Customers since 2008
- Two Year Warranty against Manufacturing Defect*

LOW VOLTAGE PANELS RANGE

OUTDOOR
PANEL



APFC
CAPACITOR
PANEL



PCC
PANEL



VFD
PANEL



MCC
PANEL



AIR BUS
DUCT



PLC
PANEL



DG SYNC
PANEL



POWER CONTROL CENTER (PCC)

We offer PCC Panel with a current carrying capacity up to 6300 Amp. We have short circuit type test Certificate of 65 KA/ 1sec from CPRI. Our PCC Panel integrated with all necessary protections to ensure that it meets all safety standards prevailing in the industry. As a special feature we provide energy management system through which you can have one month record of energy data of all feeders.



AUTOMATIC POWER FACTOR CORRECTION PANEL (APFC)

We offer APEC Panel controlled through Thyristor cards or contactor based depends on nature of Load. To overcome harmonic effects we use detuned reactors. We supply the panels with APP/MPP Heavy duty capacitor banks as per characteristics of electrical loads. This panel is of great use to minimize loss and wastage of energy and heavy penalties by electricity boards.

AIR BUS DUCTS

We have product range of Bus Ducts complete with CRCA/Aluminium enclosures. We hold the expertise in design, engineering and manufacturing of various types of bus ducts with a range up to 6300Amp. We provide flexible jumpers if required from the clients end. As an optional feature we provide Heater, Thermo State, MCB Rubber Bellow, Silica Gel Breather.



MOTOR CONTROL CENTER (MCC)

We offer MCC Panel, Fully draw out / Non Draw out / Compartmentalized / Non- compartmentalized /Single front / Double front operated. it is equipped with ACB/MCCB/SFU/MCB, DOL, ATS or Star Delta Starters for Automatic / Manual means of starting and stopping the motor . We provide facility to operate from Local/ Remote dcs from MCC. We offer intelligent MCC which can communicate with PLC, can be controlled from SCADA.

DG Synchronizing Panel

DG Synchronizing panel controls the functionality of a number of diesel generator sets. In industries, more than one DG sets have to be used in parallel to share the total load on the system. To synchronize two or more DG sets is required to match all the parameters viz. voltage, frequency, speed, phase sequence and phase angle.

We provide a full range of high quality DG Synchronization panels for all requirements. It performs a variety of functions like starting, sharing, transfer and stopping load variations.

We have many in-built safety features for the security of various equipments like alternators, engines etc. Our panels come with complete controlling and protection relays, which are capable of synchronizing a number of DG sets. simultaneously.

MEDIUM VOLTAGE PANELS RANGE

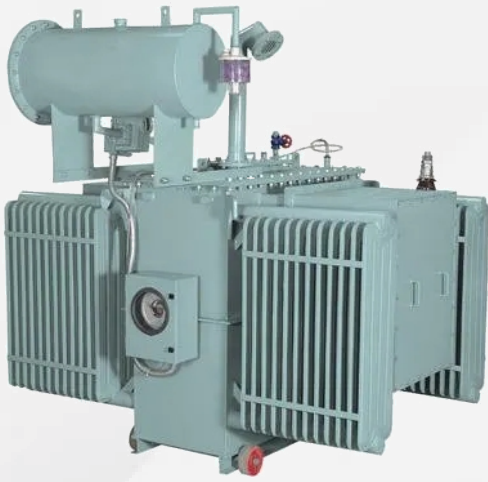
3.3- 33 KV VCB Panels

Synergy is a leading Panel manufacturer and Supplier of VCB Panels in North India .Our range offer state of art switchgear for 11 & 33kV with cutting edge technologies in VCB upto 1500MVA fault levels."We have developed our expertise to offer our esteemed clients with an exclusive range of HT Electrical Panel. Manufactured using a combination of high quality raw materials and latest techniques we have developed a range of product that are of high quality. We make timely delivery of ordered consignments within the given time frame and work towards providing maximum customer satisfaction.

VCB Panels Range

- Rated Voltage - 3.3/6.6/11/ 33 KV
- Rated Current - 630/800/1250/ 1600 Amp
- Short Ckt current - 20/26.3/ 40 KA
- Application : Indoor / Outdoor
- Bus Bar- Aluminum/ Copper
- Type : Extensible/ Non Extensible





Transformer

From Inception, we are leading Supplier of Distribution Transformers Range 100 KVA – 10 MVA. We are Channel partner with some of renowned manufacturers of Transformers which helped us in offering complete range of Distribution Transformers including Oil/ Dry Type with OCTC / OLTC System.

Ring Main Unit

A ring main unit (RMU) is a factory assembled, metal enclosed set of switchgear used at the load connection points of a ring-type distribution network. It includes in one unit two switches that connect both sides of the load to the main conductors and a fusible switch or circuit breaker that tee-off to feed a distribution transformer medium voltage to low voltage (MV to LV). We offer complete range of RMU Units manufactured by ABB/ Schneider with different Isolator+ VCB Combinations as required by Client.



Control Relay Panel

We manufacture Control & Relay Panels (CRPs) used for the protection of electrical networks ranging from 11kV to 66 kV. Our product range for both indoor and outdoor panels includes

- Feeder protection panel for both incoming and outgoing lines
 - Transformer panel covering both HV and LV side protection
- We have expertise in using electromechanical, analog and digital relays in our panels. We integrate relays from popular manufacturers like ABB, Areva, Siemens, GE, SEL. Etc. The panels of varying sizes based on the requirement are designed. Based on the design and wiring terminations the panel are classified into simplex, duplex, twin feeder and triple feeder

Outdoor Vacuum circuit breaker

Our 33KV Outdoor Vacuum Circuit Breaker Panel comes with reliability, performance, maintenance free and long life. We have Outdoor VCB Breaker in two ranges: 11 KV Outdoor Vacuum Circuit Breaker Panel and 33KV Outdoor Vacuum Circuit Breaker Panel. 33 KV Outdoor Breaker are widely used for protection of overhead lines, distribution transformer, motor, capacitor bank. We are capable to take demands of bulk orders of Outdoor Vacuum Circuit Breaker Panel.



PACKAGED SUB STATION (PSS)

100-2500kva

Factory built MV/LV Substation assemblies meet users needs with respect to reliability, safety, overall quality, time-saving and appropriateness for the local surroundings

Ready to use Substation with

- Oil / Dry type OCTC / OLTC Transformer
- MV Compact RMU Unit
- LV Panel.

Benefits at a Glance

- Cost effective and economical
- Assured higher safety
- End to End solution
- Time saving
- Optimized footprints
- Reduced project risk



CHARACTERISTICS OF OUTDOOR PACKAGE SUB STATION (PSS)

100-2500kva

Technical Specification

A. General Characteristics

| | | |
|----------------------|-----------------------------|---------------------------|
| Applicable Standards | Package Substation | IEC 62271-202 |
| Ambient Temperature | Normal Operating Conditions | - 5 Deg C to 50 Deg C |
| Standard Color | | RAL 7032 |
| Installation | | Indoor / Outdoor |
| Construction | | Compartmentalised |
| Ventilation | | Natural Air Cooled |
| Degree of Protection | MV Compartment | IP54 |
| | Transformer Compartment | IP23 / IP34 (On Request) |
| | LV Compartment | IP54 |
| Enclosure Class | | K5 - K10 |

B. Electrical Characteristics

| | | | | |
|---|--------------------------------|-------|-------|-------|
| Rated Voltage (kV) | | 12 | 24 | 33* |
| Rated Insulation Level | kV rms, 50 Hz 1 Min. | 28 | 50 | 70 |
| | kV impulse, 1.2/50 micro secs. | 75 | 125 | 170 |
| Rated Frequency (Hz) | | 50 | 50 | 50 |
| Rated Current of MV Switchgear / CBs (A) | | 630 | 630 | 630 |
| Maximum Allowable Impulse current withstand | kA rms - 1 Sec | 21 | 16 | 25 |
| | kA peak | 50 | 40 | 63 |
| Maximum LV Current (A) | | 3200 | 3200 | 3200 |
| LV Current withstand (kA) | | 50/65 | 50/65 | 50/65 |

Salient Features

- Access to the MV & LV compartment provided through a double door arrangement.
- Louvers designed for natural ventilation ratio and therma class K10.
- Spaciously designed to have adequate clearance.
- Degree of protection for MV/LV compartment is IP54 & for transformer compartment Ip34.
- Internal earthing with 50x6mm Aluminium or 25x2mm copper busbars.



ELECTRICAL SITC WORK

Along with Supply we offer Installation, Testing and commissioning of Electrical Sub station Items including LV Panels, VCB Panels, Transformers, DG Sets etc. We also undertake Cable Laying and Termination Work. Electrical Substation being one of the most critical part of any Infra Project, need skilled approach. Our Site team is well versed with technical and practical knowledge, which help the customer to commission the system successfully. We ensure that Electrical Project is completed timely and in efficient manner. This vertical (SITC) helps us to offer **Single Window Concept** to Client, which is mutually beneficial. We extend our Services for technical discussion with client, Vendor, Consultant etc. We ensure that complete work is done as per Industry/ Utility Guidelines.

We Cover Installation & Commissioning of

- LT Panels (In House)
- Transformers
- Earthing
- Indoor & Lighting
- Fire Fighting, Electrical System
- HVAC Electrical Systems
- HT Panels (In House)
- DG
- Cabling



OUR CLIENTS

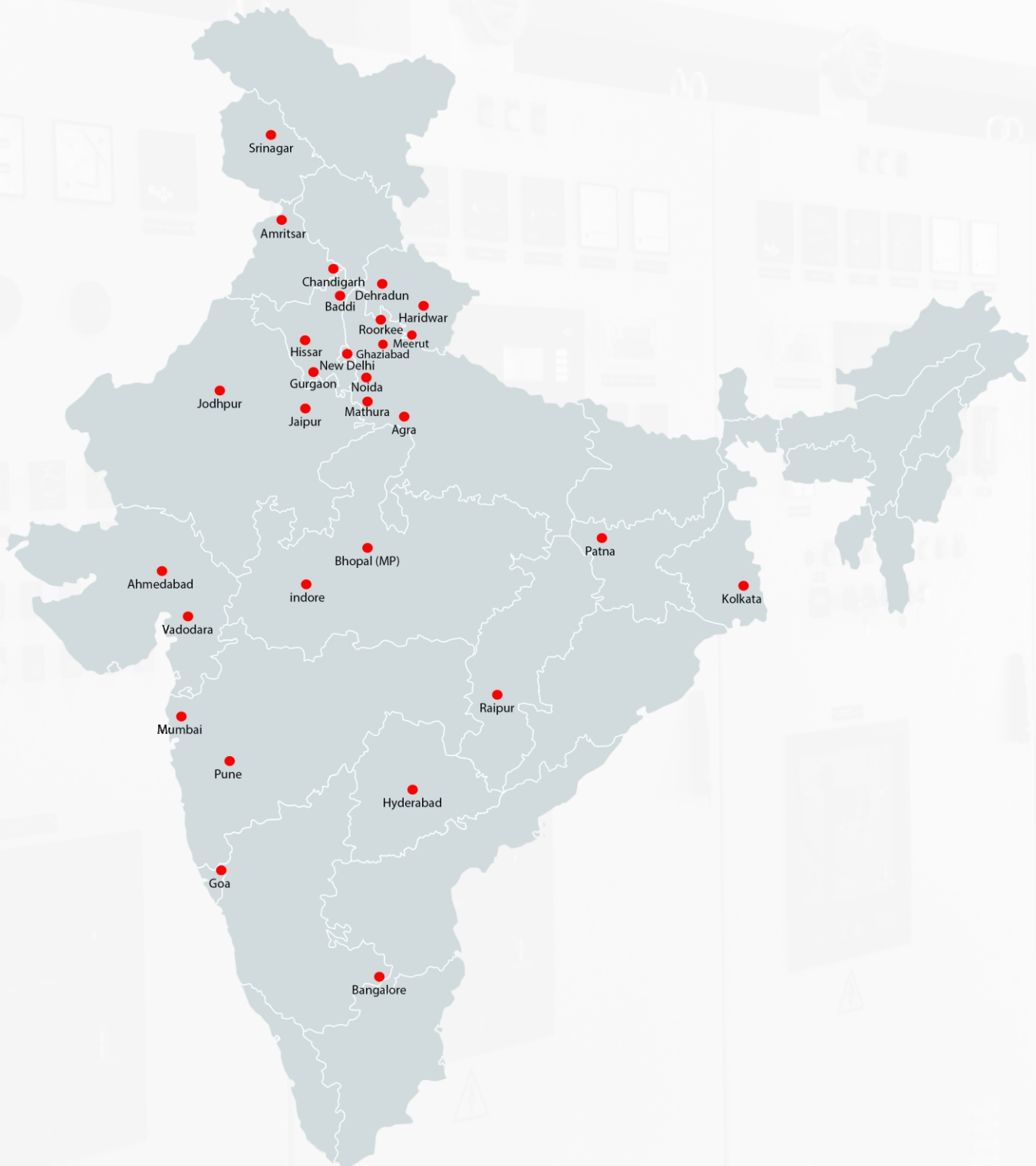


OUR ASSOCIATE PARTNERS



OUR Presence

**SYNERGY
ELECTRICALS**



**MANUFACTURERS OF LT DISTRIBUTION PANELS,
VCB PANELS, COMPACT SUBSTATION**

Address- Plot No.254-255, Udyog Kendra-II, Ecotech-III, Greater Noida, Uttar Pradesh

Cell: +919971874242, +91 85348 46437

Website :www.synergielectricals.com