



# VIDYUT TECHNOLOGIES (INDIA) PVT LTD



Growing  
**POWERFUL**  
Bonds

- ☉ Turnkey Projects
- ☉ Compact Substation Enclosures
- ☉ HT Panel Boards
- ☉ LT Panel Boards
- ☉ Perforated Cable Trays
- ☉ Ladder Cable Trays
- ☉ Busducts
- ☉ Maintenance & Liasioning Services



# Company Overview

Founded in 2009, Vidyut Technologies India Pvt. Ltd. offers the complete range of electrical engineering solutions to various Industrial sectors-from conceptual design, manufacturing and testing to on-site commissioning. A team of qualified managers, experienced engineers, skilled technicians with proven track record.



## Introduction

We take great privilege in introducing ourselves as one of the leading Electrical Panel Builders and "A" Grade Electrical Contractors based in Hyderabad, India. We are in the field of Industrial Electrification for the past 18 years. In this period of growth we have met many challenges successfully and today we possess comprehensive expertise to tackle the most difficult requirements. Mr.Srinivasa Rao, the Managing Director joined Genelec Ltd., as a trainee engineer in 1983 and rise to a senior position.

CVS Chowdary, the technical director, is a Graduate in Electrical Engineering from Mysore University. Joined as an executive engineer in M/s. Genelec Ltd., in 1973 and worked till 1993 holding senior levels. He is recognized for his pioneering efforts in handling projects in various industries.

We started Vidyut Systems, in July 1995 with focus on Electrical Contracts business. An entity with a high benchmark of quality in complete electrical engineering solutions to various industrial sectors from conceptual design, manufacturing and testing to on site commissioning. Our qualified and experienced team of managers, engineers, skilled technicians guarantees lean planning to ensure on time delivery.

## Our Vision

To lead the scene with high quality, cost effective products.

## Our Mission

Endeavour with best efforts in all ways possible to cement relationships with customers and upgrade production processes and capacities .

## Quality Policy

Our Q policy is to ensure 100% accuracy, meeting with latest I.E. regulations by employing highly skilled and experienced professionals.

## Safety Policy

Our staff strategy applies to all Engineers, Supervisors, Skilled and Unskilled Workers. For the purposes of this policy, the following definitions are followed :

**Skilled / Qualified person:** One who has skills and knowledge related to the construction and operation of the electrical equipment and installations and has received safety training to recognize and avoid the hazards involved.

**Unskilled / Unqualified person:** A person who is not a qualified person. Any electrical system modification must be reviewed by and approved by an electrical supervisor.

This policy is intended to establish safety requirements for our employees who may work with or in the vicinity of electrically energized equipment during the course of delivering their duties at sites.

## Certifications

We inform all with pride the fact that our HT Panel Board, Low voltage panels and bus ducts have been type tested and got certified by "CENTRAL POWER RESEARCH INSTITUTE, BANGALORE" for a rated short circuit withstand level of 100KA RMS for a duration of 1 Second.

## Facilities

We have established a comprehensive panel manufacturing industry at Hyderabad with all sophisticated in-house facilities.

Each product is keenly inspected on the assembly line and the trained eye detects the smallest flaws. Members of our QC, testing and RD teams take charge of manufacturing at various stages so that all the products pass the critical parameters tests successfully.



We are capable in meeting the project requirements to any exacting standards, within the specified time frame.

**"A" Grade Electrical Contractors License to all voltages exceeding 33kv from CEIG**



Bus Bar processing Machine

Punching Machine

Sheet Bending Machine

Shearing Machine



# HT Panel Boards Channel Partners with

## Compact Substations LT Panel Boards



### Salient Features of HT Panels

- Fully Type Tested Product as per IEC62271-200
- Extensible & modular construction
- Fully interlocked for operational safety
- Totally compartmentalized
- Modular Design, Indoor/Outdoor type enclosures
- Tailor made for individual requirement
- It is virtually maintenance free and all the circuit breaker operations can be carried out with the door closed

### HT Panel Boards Variants

1. 1kV, VCB Panels (Indoor / Outdoor)
2. 33kV, VCB / SF6 Circuit Breakers (Indoor / Outdoor)
3. 11kV & 33kV Load Break Switch (Indoor / Outdoor)
4. 11kV & 33kV Outdoor PC VCB
5. 11kV Compact RMU
6. 11kV & 33kV Metering Cubicle



### Compact Substation Enclosures

**Application:** The new ultra compact substation significantly contributes in the global cost reduction for the utilities as well as for the industrial users because of three main reasons. First, the reduced surface area required to install the substation generates cost-savings, especially in urban areas where space is hard to find and also expensive. Second, the substation needs less labor installation costs, since it is delivered as a ready-to-install assembly. Third, the procurement of the substation as a complete assembly facilitates purchasing, management, storage and handling operations. To distribute and control power.

**Range:** As per customer need

**Provisions:**

- Transformer
- VCB, ACB, RTCC Panel
- Metering



### LT Panel Boards Variants

#### PCC Panel Boards

**Application:** ● To Distribute, Operate & Control the power throughout of the unit.

- To protect the sub panel boards and equipment by short circuit, overload, earth fault by using relays incorporated in MCCB and ACB.
- To facilitate and distribute the power generated by the Diesel Generator

**Range:** Upto 5000A

**Provisions:**

- Incomer for EB Power ● Incomer for DG Power
- Bus-coupler for Sharing the EB and DG Power
- Flanges for connecting the Bus-duct from Transformer
- Meters like Voltmeter, Ammeter, kWh, Multifunction Meter, RYB Phase Indications, Mechanical / Electrical Interlocking between
- Aluminium or Copper Bus-bars with color code sleeves to indicate phase



#### MCC Panel Boards

**Application:** ● To Distribute, Operate & Control the power to 1Phase & 3 Phase Motors.

- To protect the equipment by short circuit, Overload, Earth Fault by using relays incorporated in incomer MCCB.

**Range:** DOL, Star / Delta

**Provisions:**

- Incomer for EB Power / DG Power
- Bus-coupler for Sharing the EB and DG Power if necessary
- Cable Alleys for connecting the cables of motors
- Meters like Voltmeter, Ammeter, kWh, Multifunction Meter, RYB Phase Indications, Mechanical / Electrical Interlocking between
- Aluminium or Copper Bus-bars with Sleeves to indicate phase





# LT Panel Boards



## Sailent Features in Common :

- Design** : We design all panel boards, as tailor made basis i.e., as per customer specifications and suitable for site conditions, like
- ⊙ Front operation model
  - ⊙ Back operation model
  - ⊙ Double front model
  - ⊙ Top Entry provision for Incoming Cables
  - ⊙ Bottom Entry provision for Incoming Cables
- Raw Material** : We use good quality of raw material (CRCA Sheets, Hardware and other panel accessories) for manufacturing of panel boards
- Fabrication** : After receiving the clear drawing approval from our customer, our dedicated fabrication team fabricate the panel board as per drawing
- Standard** : Dust Proof, Vermin Proof, Cubicle Type, Free Standing Floor Mountable, Expandable
- Painting** : We use 7 Tank Processed Epoxy Powder Coating process to painting our panel boards
- Switchgear** : We use switchgear components of reputed make like L&T, Schneider, ABB, Seimen's or as per choice of customer
- Busbar** : We use electrolytic grade aluminium or copper bus-bars to interconnect the switchgear within the panel board, whatever the customer needs
- Accessories** : Like Meters, Lamps, Hardware, Locks, Earthing material would be used of reputed companies or according to the customer's specific makes
- Wiring** : We provide the panel boards with all control wiring with suitable branded copper flexible multi-strand wires using lugs and indication ferrules
- Testing** : All panel boards would be tested before packing in our works by well qualified electrical engineers
- Packing** : All Panel Boards would be packed with polythene self adhesive rolling pack, which will protect panels from dust, rain and any other damages while in transport

## APFC Panel Boards

- Application:**
- ⊙ To maintain the power factor in the desired range.
  - ⊙ To ensure the accurate power factor by using advanced microprocessor relays.
- Range:** 50kVAR, 100kVAR, 150kVAR, 250kVAR, 500kVAR & as per customer need
- Provisions:**
- ⊙ Incomer for EB Power
  - ⊙ Heavy Duty Capacitors
  - ⊙ Automatic Power Factor Relay of suitable stage (6,8,12 stage)
  - ⊙ Cable Alleys for connecting the cables to capacitors
  - ⊙ Meters like Voltmeter, Ammeter, kWh, Multifunction Meter, RYB Phase Indications
  - ⊙ Aluminium or Copper Bus-bars with Sleeves to indicate phase



## Relay & Control Panel Boards

- Range:** As per customer needs, depending on the rating of DG Sets and Transformer
- Provisions:**
- ⊙ Incomer for EB Power
  - ⊙ Aluminium or Copper Bus-bars with Sleeves to indicate phase
  - ⊙ Generally relays, If needed, PLC boards for operation



## Synchronizing Panel Boards

- Application:** To synchronize manually or automatically, the power from EB & one or more DG Sets, or Breakers to meet the power requirements of the unit.
- Range:** As per customer needs, depending on the rating of DG Sets and Transformer.
- Provisions:**
- ⊙ Incomer for EB Power
  - ⊙ Aluminium or Copper Bus-bars with Sleeves to indicate phase
  - ⊙ Generally, relays need PLC boards for operation.



## AMF Panel Boards

- Application:** To automatically changeover from mains electricity supply to stand-by generator or gen set on failure of the mains supply. When the mains supply is restored, the system automatically changes back and stops the gen set. The stand-by generator will be eventually shut down after a short cooling down period.
- Range:** As per customer needs, depends upon the rating of DG Set and Transformer
- Provisions:**
- ⊙ Incomer for EB Power
  - ⊙ Aluminium or Copper Bus-bars with Sleeves to indicate phase
  - ⊙ Generally relays, If needed, PLC boards for operation



## Power & Lighting Distribution Boards

- Application:** Dedicated to supply power to raw power usage points like sockets, switches and light point.
- Provisions:** SPN DBs, TPN DBs, Single Door or Double Door Indoor or Outdoor type.





# Turnkey Projects



## Turnkey Projects

We undertake supply, installation, testing and commissioning of many tailor - made substations, industrial power distribution systems, illumination projects right from design stage to satisfactory completion for renowned customers within india.

### Turnkey Projects Include

- ⦿ Overhead Lines up to 132 kV
- ⦿ Sub-stations up to 132kV
- ⦿ External Electrification
  - ⦿ Diesel Generator System
  - ⦿ Earthing System
  - ⦿ Advanced Lightning Protection System
  - ⦿ External Yard Lighting
  - ⦿ External Lighting
- ⦿ Internal Electrification
  - ⦿ Raw Power Distribution
  - ⦿ UPS System
  - ⦿ Raw Power / UPS Cabling
  - ⦿ Internal Lighting
  - ⦿ DATA / LAN Cabling
  - ⦿ CC Camera System
  - ⦿ Public Addressing System



## SERVICES

### Maintenance

We provide annual electrical maintenance services to several well known customers upto 132kv system, DG Sets, Lighting and overall internal electrical maintenance.

### Liasioning Services

We also provide liasioning services with

- 1) Chief Electrical Inspector to Govt
- 2) Telangana & AP-Power Distribution Corporation Limited



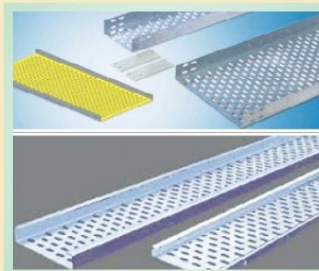


# Cable Trays & Bus Ducts



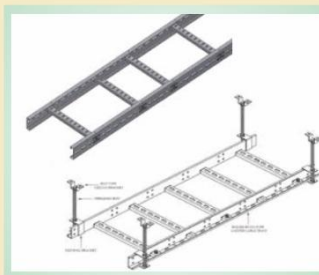
## Perforated Cable Trays

- Application:** To provide space for laying cables at various heights, where there is no chance to lay cables, in trenches and underground.
- Features :** Provides base for laying of cables and ventilation for the cable's long life. Durability, provision for tying cables with cable ties.
- Raw Material:**
- ⦿ Tre-galvanised Iron Sheets ( GI Sheets ) - GI Cable Trays
  - ⦿ Cooled Rolled Sheets ( CRCA Sheets ) - powder coated / painted cable trays / Hot Dip CRCA
- Range:**
- ⦿ Length - standard i.e., 2.5 Mtr.
  - ⦿ Width - 50,100,150,200,150,300,400,600,1000 mm or as per customer need.
  - ⦿ Height - 30, 40,50, 75 and 100 mm.
  - ⦿ Thickness - 1.2, 1.5, 1.6, 2.0 , 2.5 mm, and 3.0 mm.
  - ⦿ Types of Finish- Galvanised, Powder Coated and Painted.



## Ladder Cable Trays

- Application:** To provide space for laying cables at various levels of height where there is no chance to lay cables in trenches and underground.
- Features:** Provides base for laying of cables and ventilation for the cable's long life. Durability, provision for tying cables with cable ties.
- Raw Material:**
- ⦿ Galvanised Iron Sheets ( GI Sheets ) in case GI Cable Trays
  - ⦿ Cooled Rolled Sheets ( CR Sheets ) in case powder coated / painted cable trays
  - ⦿ MS Angles ( based on customers requirements )
- Range :**
- ⦿ Length - standard i.e., 2.5 Mtr.
  - ⦿ Width - 100,150,200,150,300,400,600,1000 mm or as per customer need.
  - ⦿ Height - 40,50, 75 and 100 mm.
  - ⦿ Thickness - 1.2, 1.5, 1.6, 2.0 , 2.5 mm, and 3.0 mm.
  - ⦿ Types of Finish- Galvanised, Powder Coated and Painted.



## Bus Ducts

We design, manufacture and supply Bus Ducts with Aluminum or Copper Bus bars as per customers need. Our bus ducts upto 6300A have been tested and certified by CPRI, Bangalore.

- Application :** To connect the transformer and Main PCC Panel Boards
- Provisions :** Suitable space for Bus Bars  
Phase Indication heat shrinkable sleeves for Bus Bars  
Bus bar Insulators / Supports to provide fixing support for Bus Bar
- Raw Material :** CR Sheets, Electrolytic grade Aluminum / Copper Bus Ducts
- Range :** Upto 6300A



## Our Service Sectors

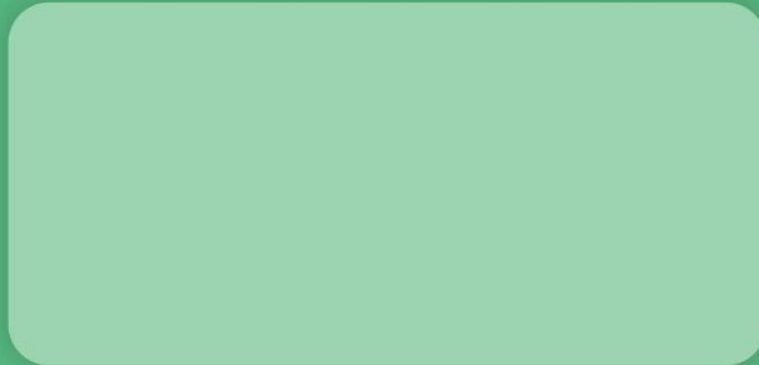
We serve the following Industries in Telangana , Andhra Pradesh and many other states:

Pharma & Bulk Drug Industries	Chemical Industries	Spinning Mills
Engineering Industries	Beverages	Print & Electronic Media
Infrastructure	Educational Institutions	Charitable Trusts
Cement Industry	Residential & Commercial Complexes	Hospitals
Steel Industry	IT Industry	

## Clients



## Our Authorised Dealer



### Head Office

Off.No. 16, 17 & 18 Part, First Floor, Sony Business Complex,  
Prashanth Nagar, I.E., Kukatpally, Hyderabad - 500 072,

Ph: +91 40 - 23070 066 / 4011 | M: +91 90005 02887



### Works

Plot No. B78 & 79, APIE, Sanathnagar, Balanagar Post,  
Hyderabad - 500 018

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### Branch Office

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