

Ambit Switchgear India Pvt. Ltd.

Manufacturing Unit





OUR CULTURE

RESPECT

LEARN

MONITOR

ENJOY

AND GROW

TOGETHER AS A

TEAM

Key Data of Facility

- Plot Area – 24,000 Sq. Mtr
- Shop Floor – 1,25,000 Sq. Ft.
- Admin Block – 12,000 Sq. Ft.
- Capacity – INR 2,000 Million

INTRODUCTION



Established in 2005 to provide complete solution of

Electrical Panels

Our motto is to provide

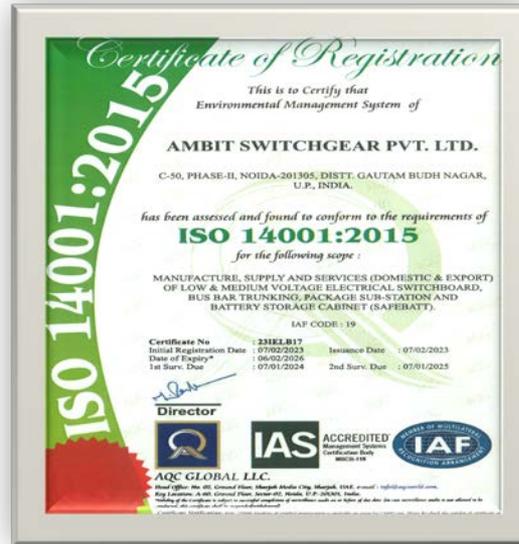
“Technology with Excellence...”

IN ALL OUR ACTIONS

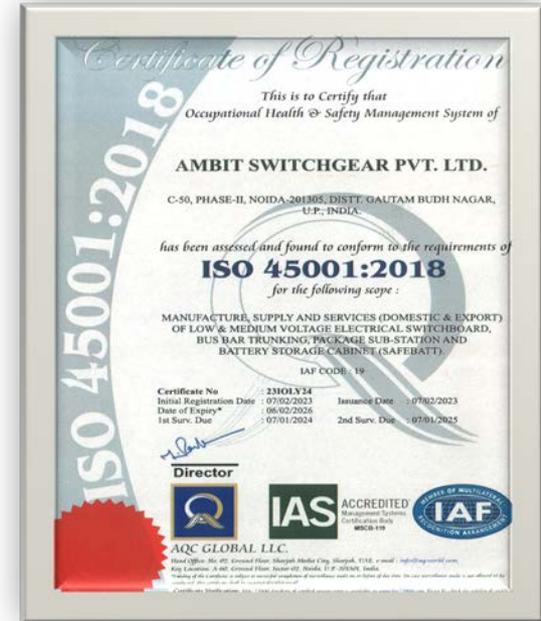
ISO Certificates



ISO 9001 : 2015



ISO 14001 : 2015



ISO 45001 : 2018

Quality Policy

QUALITY POLICY



is committed to grow its Business and
Organization by constantly endeavoring
on to provide

“Technology with Excellence”

We strive to provide best solutions, products & services that
satisfy the requirement of our Customers.

This we shall do by ensuring continual improvement, providing
best services, delivering on time, engaging and aligning all our
stakeholders and encompassing statutory, regulatory, safety,
health and environment at our work place.

Director

Promoters/ Directors



- **Anand P Singhal**

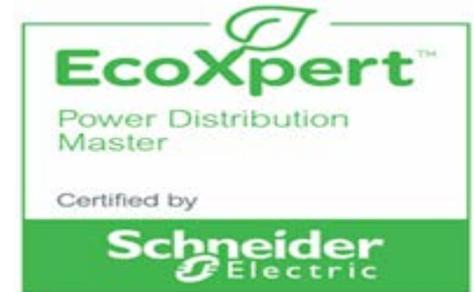
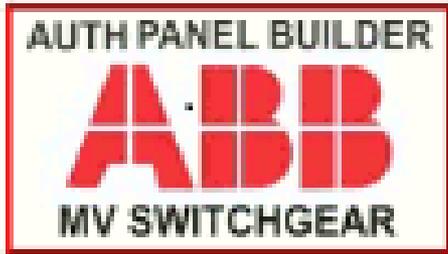
- Electrical Engineer with more than 40 years of experience in **Design, Manufacturing, Testing and Commissioning** of all kinds of Electrical Panels



- **Rakesh Jain**

- Electrical Engineer with wide experience of **Merchant Navy** and more than 40 years of contracting in electrical projects and manufacturing of Electrical Panels .

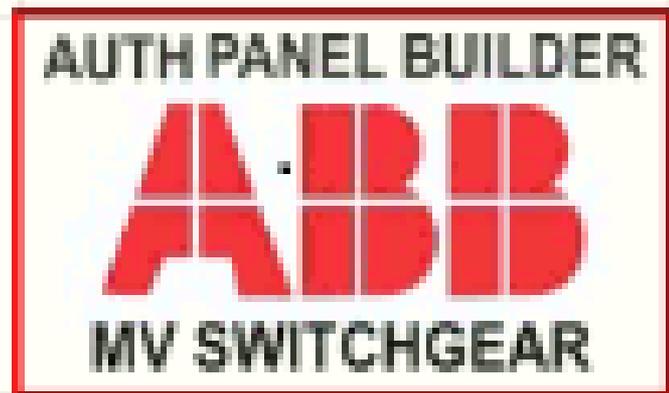
Our Associations



Medium Voltage Switchgear

From 3.3 KV to 33KV Panels

Ambit is an authorized System House of ABB, a global leader in power and Automation technologies for medium voltage switchgear



TTA Solution

Schneider Blokset

- Ambit is an Eco-Xpert LV Panel Master panel builder with advance partner level and as such is qualified to design, assemble, test and sell the electrical panel including TTA solution .
- “Blokset” switchboards are **Fully Type - Tested Design** in accordance with **IEC-61439 – 1 – 2**.



TTA Solution

Ambit – “AMCUBE”

- Ambit renowned to design , assemble , test and manufactures the specific **Fully Type - Tested Design Panel** in accordance with **IEC-61439 – 1 – 2** with **ABB Switchgear**.



SAFEBATT

- Ambit provides unique solutions to store UPS Batteries which in case of a battery fire mishap ensures named as "**SAFEBATT**".
- This is Patent designed product, which gives you ***Continues UPS backup*** and ***Safety to humans and property.***
- https://youtu.be/6_uk8TQ4SUY



Pride of Honor

Sprint Award–2020 for Best Debutant Blokset



Pride of Honor

Supporting Vendor-2019
BHEL



Best Emerging Vendor-2018
BHEL



Pride of Honor by ABB



OEM Silver Award –North - 2016



OEM Silver Award – 2017



Authorized Panel Builder – Silver Category -2023

OUR INFRASTRUCTURE



Assembly Shop



Fabrication Shop

Systematic flow of material



Auto Sheet Loader

Hydraulic Press Brake Machine – RGM3 1003

Specification : 100 T

Make : AMADA

Origin : Japan



Turret Punch

Specification : Twin Servo – 56 Punches

Make : AMADA

Origin : Japan



NC Press Brake – Sheet Bending

Specification : 2500mm X 4mm

Make : AMADA

Origin : Japan

Ambit Salient Features-Infrastructure

Wiring & Assembly

- Neat and dust proof environment
- Air cooled assembly shop
- Large space
- Pneumatic line through out the workshop
- R&D laboratory
- Production is monitored by dedicated FMS
- Fully equipped quality assurance department.

Ambit Salient Features-Infrastructure

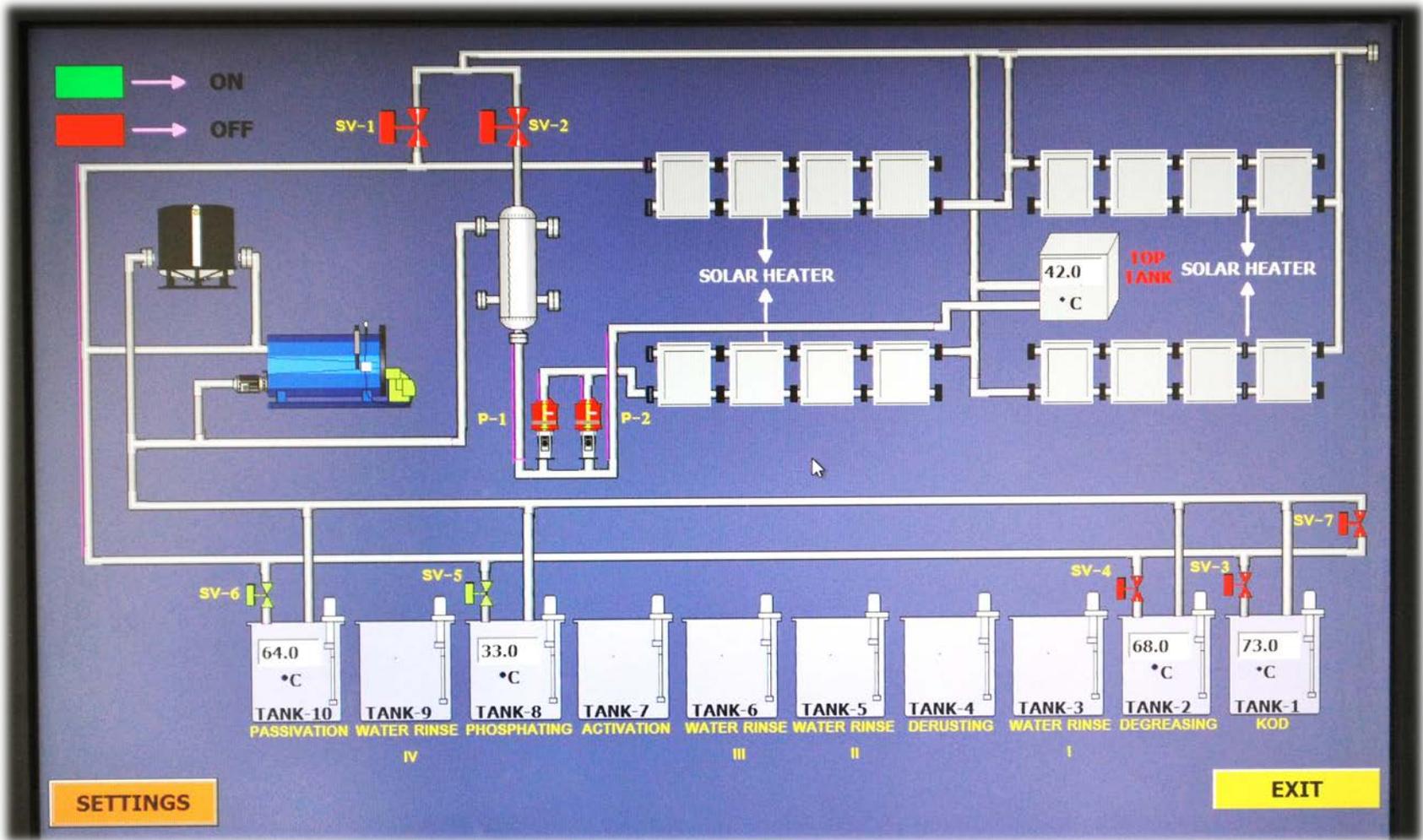
Painting

- PLC controlled 10 tank Pre-treatment system with
 - Auto transporter
 - Temperature monitoring & control (online)
 - Air Agitation
 - Dedicated test laboratory
- Fully converted continuous running powder coating plant
- All Pure Polyester Paint – Indoor/Outdoor for:
 - Longer life
 - UV Stabilized
 - Color Stabilized



Pre-Treatment 10 Tanks

With Auto Transporter System for Pre- Treatment.



Pre-Treatment process monitoring & control system



Oven Camel Back

Specification: 220° C Cont.

Make : Victory

Origin : India



Powder Recovery Chamber

Specification: 3.5 x 1.4 x 0.6 Mtr

Make : Victory

Origin : India



Busbar Section

State of Art Bus-Bar section with double line manufacturing facility.



CNC Busbar bending and Punching

Specification: 200 X 15 mm Al/Cu

Make : EUROMAC

Origin : Italy



Busbar Slewing Machine

Specification: Converized, 100° C Constant Speed

Make : PKE

Origin : India



Q.C Laboratory

Testing Equipment

- 3 Ph. 8000 A Primary Current Injection Set
- 3 Ph. 800 A Primary Current Injection Set for MV CT Testing
- 0-200 A Secondary Current Injection
- 0-70 KV High Voltage Set
- 0-5 KV High Voltage Set
- Relay Testing Set
- Conductivity Meter
- Milli Volt Drop Testing Set
- PLC Interphasing Set
- 0-600 V AC Voltage Source
- 0-300 V DC Voltage Source
- Micro Ohm Meter
- Meggars/Digital Multimeters





Ambit's Power Receiving Sub Station

Product Portfolio

- Low Voltage Solutions
- Medium Voltage Solutions
- Packaged Sub Station
- Solar EPC Solutions

Low Voltage Solutions

- Power control center(PCC)- 6300AMP ,100KA
- Motor control center(MCC) – Draw out / Fixed
- Control and relay panels
- DG Synchronizing panels
- Bus ducts and Rising mains
- Soft starter and VFD panels
- Thyrister/ Relay based APFC panels
- Scada / PLC Automation panels
- Intelligent MCC



PCC Panel



[\(12443\) New Generation of BlokSet | Schneider Electric - YouTube](#)

TTA –Blokset Panel



[\(12443\) New Generation of BlokSet | Schneider Electric - YouTube](#)

TTA –Blokset Panel



<https://m.youtube.com/watch?v=yrPNk9seAdY>

DSTP

[\(12443\) New Generation of BlokSeT | Schneider Electric - YouTube](#)

<https://m.youtube.com/watch?v=yrPNk9seAdY>

Links for Blosket Panel & DSTP



VFD Panel- 75 KW to 220 KW



Draw out Panel



Bus-Duct



Rising Mains



Control and Relay Panel

Medium Voltage Solutions

- 3.3 KV – 11KV, VCB / SF6 panels (18.3 / 26.3 / 40KA)
- 33 KV, VCB/SF6 Panels (UPTO 31.5KA)
- 33 KV, VCB, solution for solar application
- Grid/DG Synchronizing solution at 11KV
- 11 KV – 33KV Ring main units
- 11KV LAVT, NGT, NIS & NGR panels.
- 11KV BUS – Ducts
- Earthing Truck- 3.3 KV to 33 KV



33 KV Indoor VCB Panel



33 KV Outdoor VCB Panel



11 KV Panel at Panasonic Work



11 KV Double Busbar Panel



11 KV Outdoor Panel



11 KV Indoor Panel



11KV Feeder Pillar / Outdoor Panel At Maruti

MV Power Protection Solutions

- **NIS** – Neutral Isolation Switch panel
Manual
Electrical- Automatic
- **NGR** – Neutral Grounding Resistor Panel
- **LAVT** – Lightning Arrestor and Voltage Transformer
- **NGT** – Neutral Grounding Transformer



NIS/NGR Panel

Ambit Salient Features-Panel

Fabrication

- Fully bolted design
- Fully compartmentalized
- Rigid construction to bear mechanical stresses
- Use of nut inserts/ cage nuts/stud welding
- Copper coated earth stud duly brazed



Frame Jointing

Ambit Salient Features-Panels

Bus-bar Section

- Use of only electrolytic grade Aluminum/ Copper
 - a) Conductivity Aluminum : **57% min**
 - b) Conductivity Copper : **97% min**
- Aluminum directly sourced from **Jindal / Hindalco** only
- [Special joints technique for Low power loss/Low milli volt drop.](#)
- Tightening of nut/bolt by pneumatic tools.
- Interleaving busbars 4000 Amp and above
- Use of 6mm thick busbars for better heat dissipation.
- Designed for natural ventilation

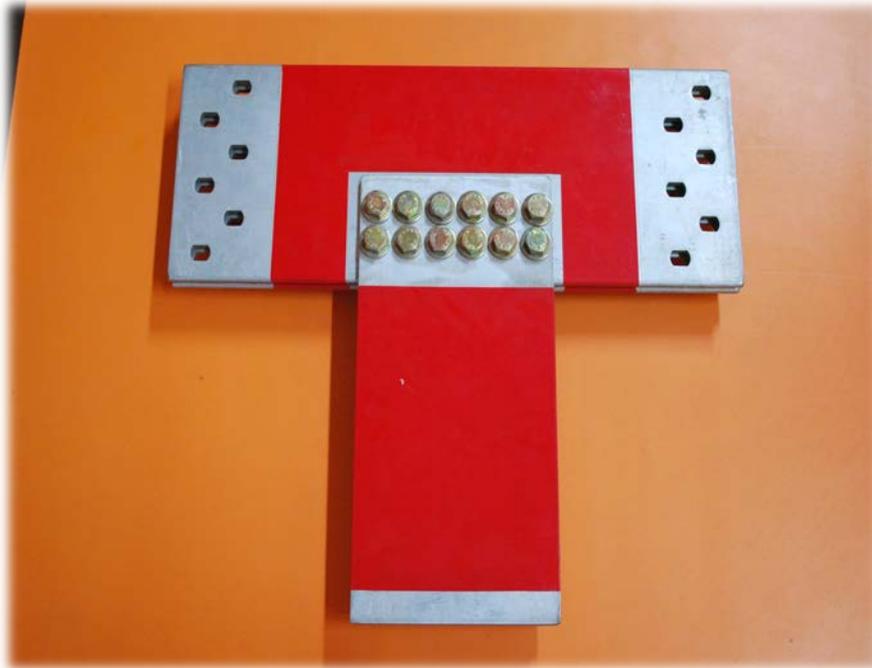


Bus-Coupler Connections

Bus Bar Connections



Ambit



Conventional



Unique Bus Bar Jointing System

Ambit Salient Features-Panel

Wiring & Assembly

- Feeder compartment flexibility at a pitch of 25 mm
 - Dust and vermin proof
 - Use of **steel reinforced EPDM gasket**-life minimum 15 years
 - Sufficient space for cable connection and Ease of maintenance
 - Personal safety- shrouding with poly carbonate sheet
 - Commissioning friendly
 - a) Common fish plates
 - b) Plug socket terminal at transport section
 - Internal quality assurance 100%
 - Complete traceability of components
-

Packaged Sub Station-PSS

Ready to use substation

- **11 KV Rating 160 to 2500 KVA**
 - Transformer Hermetically sealed oil/dry type
 - Solution with OFTC and OLTC Trafo.
 - MV Compact unit
 - LV Panel

- **22-33 KV Rating 500 to 3000 KVA**
 - Transformer Hermetically sealed oil.
 - Solution with OFTC
 - MV Compact unit /fixed VCB
 - LV Panel



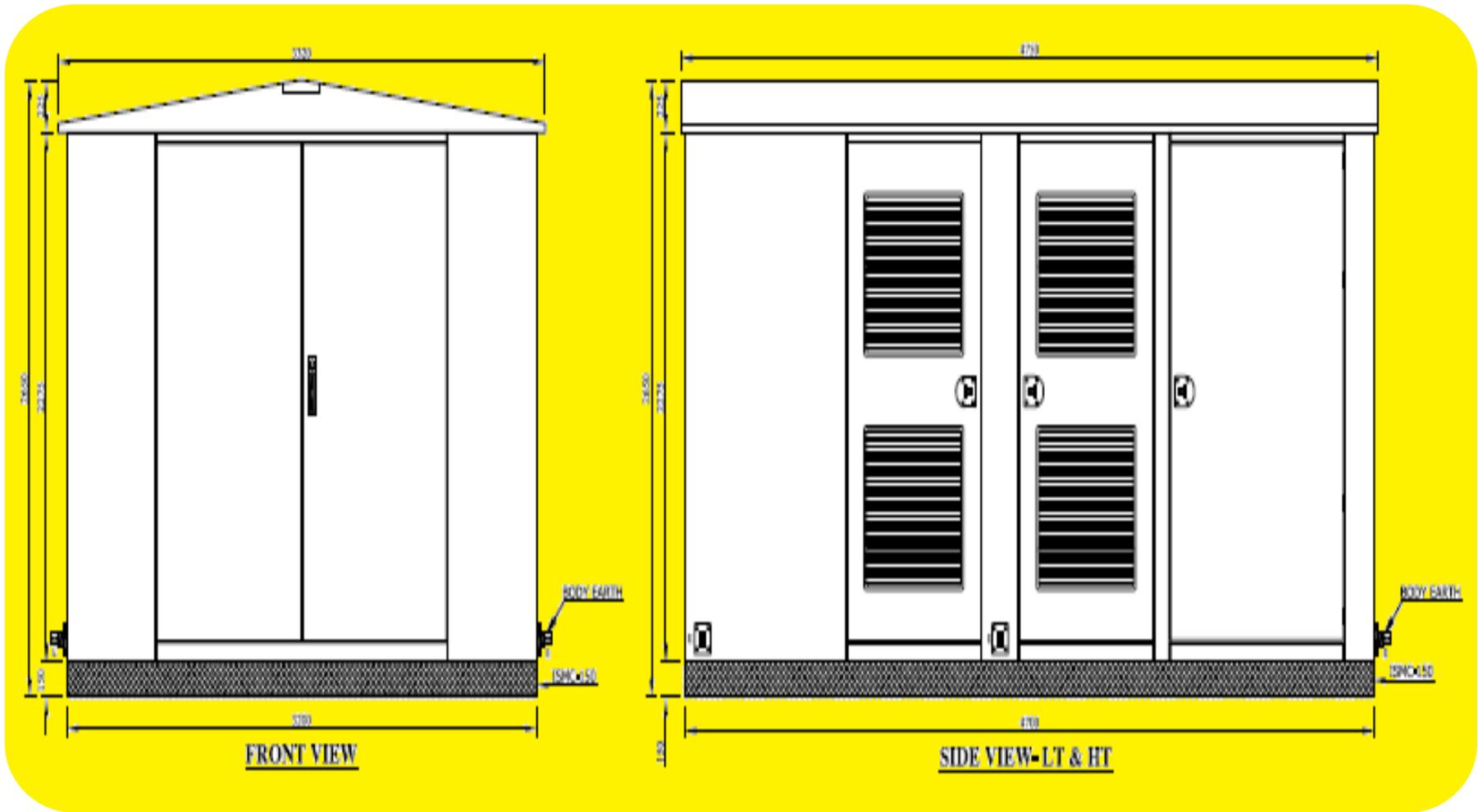
11 KV Package Substation



Packaged Sub Station-PSS

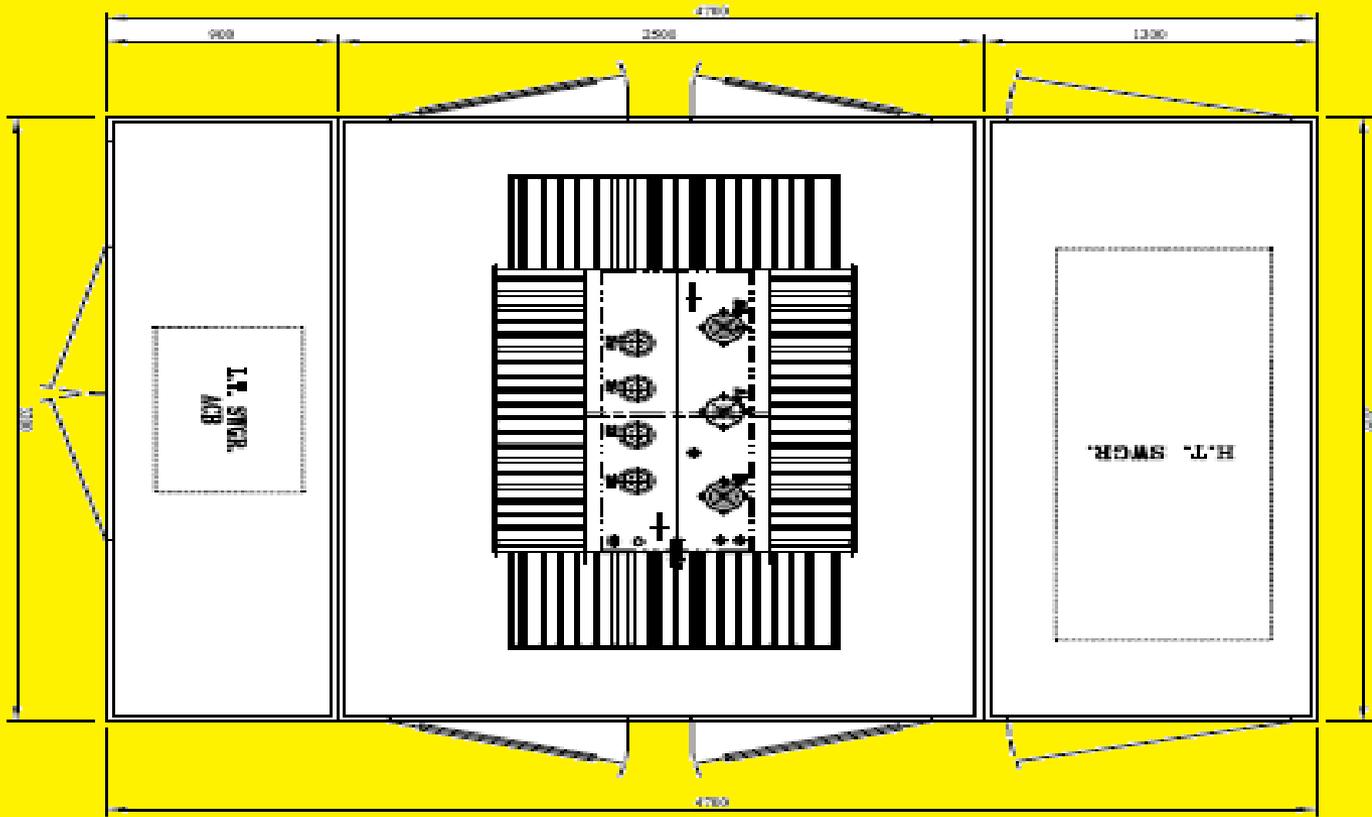
Salient Features

- In-house - Custom Built for all Applications.
- Fabricated from GI Sheet.
- Pure Polyester based Powder Coating for Outdoor.
- CSS Shipment with Transformer Inside–Faster Installation.
- Fully Compartmentalized.
- Stainless Steel Bolts, Hinges and Locks.
- Doors with steel reinforced EPDM Gasket.
- Natural Ventilation.



1000 KVA, 33KV PSS

SIDE VIEW-HT & LT



SECTIONAL TOP VIEW

FRONT VIEW

REAR VIEW

SIDE VIEW-LT & HT

1000 KVA, 33KV PSS



HT/LT Sections of Package Substation





Skid Mounted Mobile Sub Station





11 KV Compact Substation at TGB Housing Noida



After Sales Service

- Well qualified and trained team
- Commissioning support is complimentary
- Fully equipped with tools and Spares
- Ready to serve even after warrantee is over.
- AMC services offered

Key Approvals/Consultants/ Associations

- DMRC –(AC/DC DBs for CE8 Lot-1 Siemens)
- DMRC-(LVAC Panels , JBs, ACDB/DCDB for L&T CE 08)
- DMRC- (33KV Indoor VCB Panel through Pratibha)
- BHEL
- MECON
- CPWD – PM House
- Northern Railways, Jhansi
- Nuclear Power Corporation Indore
- ESI Hospital
- CBRE, RITES

Major References –High Commission and VVIP Installations in NDMC Area

- **US Embassy**
- **Russian Embassy**
- **British School**
- **PM House**
- **Teen Moorthi Bhawan**
- **DMRC**
- **Malaysian Embassy**

Our Presence

- Power Sector
- Renewable Energy
- Industry
- Infrastructure
- Building
- Global

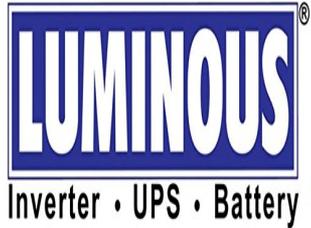


Global Presence



- NIGERIA
- EUTHOPIA
- MOZAMBIQUE
- AFGANISTAN
- ANGOLA
- INDONESIA
- HONG KONG
- SRI LANKA
- MAURITIUS
- MYANMAR
- LAOS
- TANZANIA
- KAZAKHSTAN
- VIETNAM
- PHILIPPINES
- BANGLADESH

Our Clients...



Our Clients...

**Ambuja
Cement**



Godrej

GOODYEAR

Hamdard



HITACHI
Inspire the Next



hp
invent

ht




HYUNDAI

Our Clients...



Our Clients...



VIDEOCON



WAVE Infratech



Major Developers



Hotels & Embassies



Railways & Hospitals

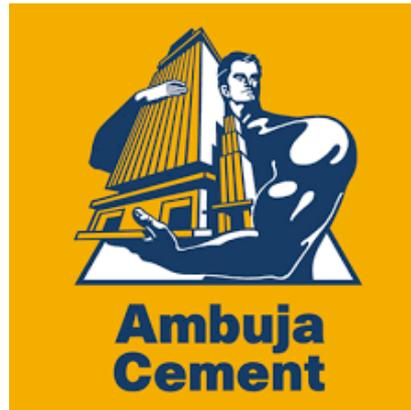


Steel & Cement Industry



BHUSHAN

BHUSHAN STEEL LIMITED



RATHI SUPER STEEL LTD
(An ISO 9001 & 14001 Certified Company)

FMCG Segment



Our Major Clients

Auto Industry



Power Segment



Our Presence in South



