



ELECTRO ASIAN SWITCHGEARS

Innovate | Simulate | Transform



We have the talent to recognize opportunities, and by turning these opportunities into market-leading products we aim to inspire people and to optimize their business.



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From the Desk of Management

Technology is moving at a very fast pace. From smaller or medium organizations to large companies, to large industries, everybody have to adopt and should encourage this excitement for development. ELECTRO ASIAN SWITCHGEARS is an organization who always believe to accelerate the pace of technology. The organization having a standard system of work pattern, scheduling to cater work force and execute the product keeping the satisfaction level of each and every customer. Although the organization is having lot of satisfied customers, but it always believes for prolonged satisfaction. From the desk of Management we congratulate the dedicated work force of our organization. The work force never shrink back for the upcoming competition with the giant company, rather they are constantly upgrading and willing for a healthy fight to confront it. We also congratulate our clients for the support and co-operation to reach at this height of ELECTRO ASIAN SWITCHGEARS. We are very much hopeful that in future we will getting this sort of encouragement for better production and services from them. Last but not the least is our customers.

We ELECTRO ASIAN SWITCHGEARS family, our customers, our vendors lets shout for “**RIGHT QUALITY WRITES FUTURE**”



Who We Are

Electro Asian Switchgears (EAS) is a reputed organization came into formation in the year 2010. We are primarily a Manufacturers & Supplier of Electrical Panels, Solar Panels, Solar Power Projects, DC Distribution Board, Battery with Battery charger, CT & PT, CTPT metering unit, Control & Relay Panels, L.T Bus-duct, Medium Voltage switchgears, Isolators, Transformers, Cable Tray, Sub Station Products etc. Our product range is very competitive and used for high quality and optimum performance, We are here to provide maximum satisfaction to our patrons' by delivering them high quality products within given time frame.

**Provides a long
Service life under
Zero Maintenance
Condition...**

Taking advantage of this strong position and the expertise of the group, EAS has progressively developed additional product ranges like wiring devices, cable management and structured cabling to its product offer.

For catering to all various needs of our customers, we offer all our products of the highest quality and maintain parameters of making them go through stringent quality checks for the best possible result in the future. We maintain healthy relationship with our clients and provide extra services on request.



Our Commitment

- Time bound delivery.
- Transparent pricing defining all cost to customer.
- Take utmost care in understanding clients requirement to its smallest details.

Quality Control

Quality control is a regular process in ELECTRO ASIAN SWITCHGEARS's work shop standing from all bought-out items and raw materials.

All supply items thoroughly tested and checked for acceptance and every record are kept for future reference. For all bought out critical items like Circuit Breakers, PLCs, Drives, Protective Relays, Meters, C.Ts, etc manufacturer routine test certificates are meticulously maintained by the expert work shop store keeper.

At the time of manufacturing our inspection Engineer carried out every intimate inspection at every stage of manufacturing beginning from Fabrication & Painting to Assembly, Fittings & Wiring. This particular process aids our company to evade the flow at every single stage. All that inspection reports are maintained in a fantastic manner.

All testing instruments are tested and checked regularly by the well reputed laboratories.

Especially we remain very careful during packing the materials for dispatch, which also includes the Company's quality control.

- Visual checking & inspection of raw materials.
- Storing.
- Gauging raw material
- Sheet marking.
- Cutting & bending
- Fabrication with grinding finish
- Mechanical housing inspection
- Sheet steel housing treatment
- Finish painting (powder coating)
- Assembly fitting & wiring
- Internal testing & inspection
- Clients inspection
- Packing
- Ready for delivery.



LT PANEL PRODUCT RANGE

- Main Switch Board.
- Main Power Distribution Board.
- Power Distribution Board.
- Sub-Distribution Board.
- Lighting Distribution Board.
- Fuse Distribution Board
- Motor Control Centre.(MCC)
- Power Control Centre.(PCC)
- Control Desk with Mimic.
- Relay Control Panel.
- Programmable Logic Control Panel.(PLC)
- Control Desk cum PLC Panel.
- AC Drive Panel.
- AMF Control Panel.
- Generator Control Panel.
- Synchronization Panel.



- Instrument Panel.
- Capacitor Panel.
- Feeder Pillars.
- Scada Panel.
- Crane Control Panel.
- Local Control Station.
- Push Button Station
- Switch Socket Outlet.
- Junction Box.
- Fire Alarm Control Panel.
- Automatic Voltage Regulator
- Hydro Power Panel.
- AC Distribution Board.
- LT BUS DUCT (5000A)

DC PRODUCT RANGE

DC Distribution Board. (12V, 24V, 48V, 110V, 220V & 750V DC)

- Compartmentalized DC DB.
- Non- Compartmentalized DC DB.
- Integrated DC DB (It is Part of Charger)
- DC DB with Provision of emergency DC feeder in case of AC Supply failure.

DC Battery Charger Unit with Constant Current Control & Constant Voltage Control with Auto/Manual mode. (12V, 24V, 48V, 110V, 220V & 750 DC)





SOLAR PANEL

We are counted amongst the recognized organization offering of premium quality Solar PV Energy. We offer a diversified gamut of quality approved solar system plant to the clients.

The provided energy plant is imparted using optimum quality components with the aid of superior techniques to various construction sites, commercial centers, educational institutions and small-scale industries. In this energy plant, we also provide customised power system to match up the clients' needs.

SOLAR PRODUCTS RANGE

- Solar power plant. With Off Grid/On Grid system. Up to 20MW.
- Solar Home Light Systems.
- Solar Water Heater.
- Solar Street Light.
- Solar Pump.



CURRENT TRANSFORMERS (CT)

- Range Offered - 11KV, 33KV & 132KV
- Oil Cooled & Resin Cast
- Secondary Current 5A & 1A
- Primary Current upto 1000 amps.
- Both single, double & triple core
- For metering, protection, special protection (PS)
- Both single, double & triple ratio
- Both wound type & bar type
- Burden - upto 100VA
- STC - upto 25 KA
- Accuracy class - 0.5/ 1 for metering,
- 5P10 to 10P20 for protection

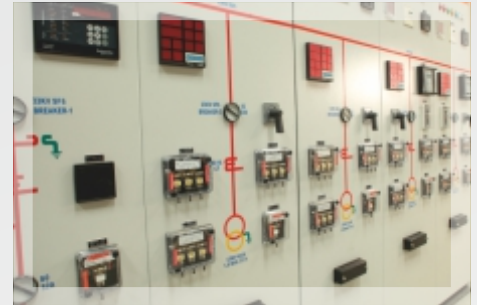
POTENTIAL TRANSFORMERS (PT)

- We manufacture both single phase & three phase PT.
- Burden - upto 200VA/ ph.
- Effectively earthed/unearthed
- Accuracy Class - 0.2 / 0.5 / 1.0
- Voltage factor -1.2 continuous & 1.5 for 30 sec.
- Both for 3 phase 3 wire & 3 phase 4 wire system



CONTROL AND RELAY PANEL

- 11kV Transformer Control and Relay Panel. (Simplex or Duplex Type)
- 11kV Feeder Control and Relay panel. (Simplex or Duplex Type)
- 33kV Transformer Control and Relay Panel. (Simplex or Duplex Type)
- 33kV Feeder Control and Relay panel. (Simplex or Duplex Type)



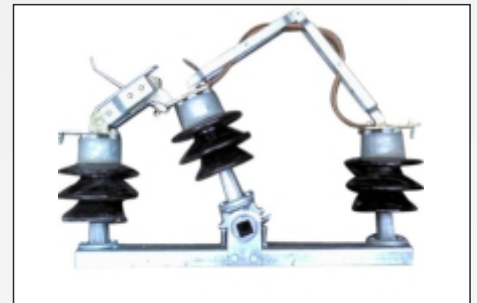
MEDIUM VOLTAGE PANEL

- 11KV INDOOR VCB SWITCH BOARD.(630A-2000A)
- 33KV INDOOR VCB SWITCH BOARD.(630A-2000A)



OVERHEAD TRANSMISSION LINE EQUIPMENT

- Triple Pole Double Break Rotating/Turn Twist Type Air Break Isolator with Earth Switch. (36kV,72.5kV,123kV,145kV&245kV)
- Triple Pole Centre Break Isolator.(145kV&245kV)
- Rocking Type Break Isolator.(11kV,22kV&33kV)
- Rocking Type Air Break Isolator with Drop Out Fuse (11kV,22kV&33kV)



ISOLATOR OPERATING MECHANISM

We manufacture Isolator & Earth switch with three different types of operating mechanism:-

- Direct lever acting manual (Banging type)
- Crank & Gear Operated Manual Mechanism.
- Reduction Gear Operated Remote/Local Motor Mechanism with provision for emergency manual operation.

In all the cases the operating time is less than 10secs and can easily be operated by one single operator.

All these operating mechanism can be provided with Aux. Switch, Electrical, Castell type Mechanical Interlock as per requirement of customer.

Manual indication & pad locks are provide in all operating Mechanisms.



ELECTRICAL OVERHEAD EQUIPMENT & HARDWARE FITTINGS.

- GI Pin.
- Shackle.
- Stay Sets
- Spacer. etc.
- S.P & D.P Line Structure – Guarding angle/Channel, Eye Bolt, etc. 9Mtr. S.P & D.P Structure.
- 4-Pole Structure – Top channel, belting & bracing etc.





SUBSTATIONS CONSTRUCTION



Compact Substation is a prefabricated, type tested as per latest IEC standard 62271-202 and CSS is arc tested assembly comprising an enclosure containing medium voltage (MV) switchgear, distribution transformers, low voltage (LV) switchboards, connections and auxiliary equipment to supply low voltage energy from medium voltage systems. Compact substations are typically installed in locations accessible to the public and ensure protection for all people according to specified service conditions due to the highest degree of Internal Arc Classification.

Rated Operational Voltage – 11KV / 33KV
Rating- up to 2.5 MVA

Application: Power Secondary distribution

Application areas: Residential, commercial and industrial developments

Type-Indoor/Outdoor: Oil Type/ Dry type

Rated Operational Voltage: 11KV/33KV

Power Rating: Up to 2.5 MVA

ELECTRICAL PROJECTS (SUBSTATIONS)



Planning, design, erection & commissioning of EHT/HT/LT substations with transformers, switchgear and necessary protection systems.

Laying, jointing & terminations of HT/LT cable for underground power distribution network.

Industrial Lighting (plant, building, streets, yards)

Design, manufacturing, erection & commissioning of power equipment for grid synchronizing.

Design Consideration

Drawing and schedules for rating of individual components and equipment confirm to customers specifications and makes of components are selected only from purchaser's approval list of vendors. Factory built assemblies shall have adequate strength to withstand all stress imposed by shipping, handling, installation, operation with out distortion or damage. Assmebly shall be wired and ready for installation in accordance with specification. Sheet metal employed in fabrication of panel selection shall have 2mm for load bearing members and 1.6mm for no load bearing members normally.

Assemblies may be single or double front construction.

Environmental conditions taken care of ambient temperature, dust & moisture , Indoor & out door installation.

Shipping sections, dimension limitation, installation method, possibilities of extension of both ends, space availability, rear access if required and mounting method kept in mind while designing.

Fabrication

Functional Unit

- The unit shall have doors with concealed hinge and shall be isolated from each other barriers.
- The construction of functional units shall be such that accessible for maintenance and replacement.
- Outgoing power cables shall be terminated on suitable terminal blocks and not directly on equipment.
- Units doors shall have operating switches, handles, indicating lamps, etc. as required.

Vertical Section

- Modular construction front accessible.
- Divided in functional units for housing motor feeders, Distribution feeders and other power and control units.
- Sections are normally 800mm width 600mm depth 2175mm height in case of single front type. In case of double front design depth shall be 920 mm.
- Independent horizontal bus way.
- Cable chamber at least 300mm. wide along with vertical section.
- 75mm height internal base channel and removable lifting lugs.
- Removable rear cover doors for inspection of bus-bars and for easy cabling.



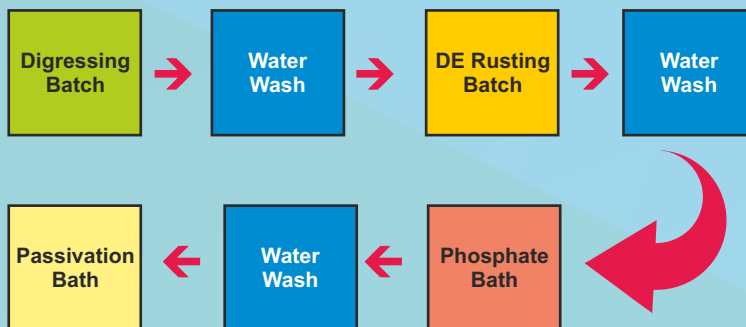
Painting

All metal surfaces shall be chemically cleaned, digressed to produce smooth clean surface.

The panels shall be finished with powder coated paint in light grey shades as per IS: 5 shades 631. However, any special paint as per customers requirement can be given if so required.

PAINTING RANGE

Powder Coated (colour as per client requirements)



Busbars

- Horizontal Bus-bar systems with FRP supports for main power distribution at the top bus-bar shall be of uniform cross section throughout the length.
- Vertical bus-bar extend into each section to supply power to each individual section.
- Bus-bars are fabricated from high conductivity aluminium/copper alloy of EC grade.
- Proper colored bands are provided on bus-bars for providing phase identification in line with requirement as per IS:375.
- Bus-bar joints are bolted connection.
- A separate A1/G1 horizontal earth bus of adequate X section provided all along length of panels.
- Vertical earth bus runs across modules and is bolted to horizontal earth bus-bars.

Wiring

- a. All vertical sections shall be wired to make the control scheme complete and wires are brought up to terminal block.
- b. The control wiring shall be of 1100V grade PVC insulated standard copper wire cabn be provided for control wiring as per customer's specification. The wire shall be conformed to IS:694.
- c. Each control wire shall have ferrules at both ends as per control scheme.
- d. Not more than two wires shall be connected to one terminal.
Power control wires shall be nearly bunched separately and adequately supported so as too prevent stresses and strain on termination.

Cable Termination

- a. Cable entry may be from top/bottom removable gland plates of 2mm/2.5mm thickness shall be provided for drilling holes at site.
- b. Power terminals for cables shall complete with crimping type lugs.
- c. For incoming feeders rated 630A and above or where cable sizes are large. The cable termination shall be done through cabling bus for adequate and proper termination.

Inspection and Testing

- a. Quality assurance is kept in view through the manufacturing right from the beginning.
- b. Visual inspection for installation and dimension check.
- c. Electrical operation test.
- d. Insulation resistance test before and after H.V Test.
- e. High Voltage Test.
- f. Current Injection Test.



List of Machinery

SR.	NAME OF THE MACHINERY	SPECIFICATION	QUANTITY
1.	CNC Machine for Cutting & Punching of Sheets	Outsourced	01 no.
2.	CNC Machine for Folding of Sheets	Outsourced	01 no.
3.	Powder-Coating together with 7-Tank Pretreatment Facility	Outsourced	01 no.
4.	8 Gauge Capacity Ball Press Machine	--	02Nos
5.	8 Gauge Capacity Power Bending Machine	--	01No.
6.	Welding Machine	--	02Nos.
7.	Hydraulic Hacksaw machine	--	01No.
8.	Heavy duty Pillar type Drill Machine	--	02Nos.
9.	Power Hacksaw	--	01No.
10.	Spot Welding machine	--	01No.
11.	Grinding & Buffing Machine	--	01No.
12.	Busbar Bending Machine (Hydraulic)	--	01No.
13.	Busbar Punching Machine (Hydraulic)	--	01No.
14.	Portable Drilling Machine	--	02Nos.
15.	Air Blower/Vacuum Cleaner	--	01No.
16.	Ferrule Printing machine	--	01No.

Testing Equipment's

SR.	NAME OF THE MACHINERY	SPECIFICATION	QUANTITY
1.	Megger	1000V DC	01No.
2.	Megger	500V DC	01No.
3.	Toung Tester	1000V AC/DC	02Nos
4.	Multi Meter	AC/DC	01No.
5.	Primary Injection set	1000Amps	01No.
6.	Variac Single Phase	28Amps, 230V AC	01No.
7.	Variac Three Phase	10Amps, 415V AC	01No.
8.	High Voltage test set	0-5kV AC	01No.
9.	Secondary injection set	5Amps	01No.

**INNOVATE
SIMULATE
TRANSFORM**



Global Presence



ELECTRO ASIAN SWITCHGEARS

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