



# SOUTHERN SWITCHGEAR & AUTOMATION LTD.



[www.southernswitchgear.com](http://www.southernswitchgear.com)



## VISION

There will be a never-ending need for Electrical products and Services to harness and maximize its full potential and use. In doing so, we will be the best-in-class provider of topnotch electrical products and services. Our vision is to fully understand our clients' needs and exceed their expectations throughout the project life cycle.

Deliver to our clients increased profitability through design and innovation along with increased opportunity to our staff through technical advancement. Our values reflect who we are and what we do. They set the foundations for success and help us deliver our vision to our clients.



## MISSION

**"SOUTHERN SWITCHGEAR & AUTOMATION LTD "** is committed to providing the highest quality products and services exceeding our client's expectations. We shall continue to expand in equipment and facilities, and engage in training and certification programs to further serve customers with utmost excellence and professionalism.

As we carry out our mission, we shall be guided by values of integrity, reliability, commitment, and collaboration.



## Quality

We believe in quality. Each section of the panel passes through the inspection during every stage of manufacturing. The final testing ensures that the panel meets the exact requirements.



## Safety

Our commitment to safety is paramount and is understood as a critical factor in determining the success of a project. All accidents are preventable and we will always strive to reach.

- Zero Harm on all projects.
- Implementation and continual review of our safety management ' plan is vital in achieving zero incidents.

# DIRECTORS

## Message



**Kailash Dan  
Rav**  
Director



**Narendra  
Bhati**  
Director

**Southern Switchgear & Automation Ltd.** has been taking step ahead with core values of mission. Our mission is to deliver the satisfaction of core quality and services.

*Incepted in the year 2019, Southern Switchgear & Automation is an eminent name in the field of Manufacturing and supplying of all types of Panel boards like PCC, MCC and APFC, Synchronizing panels, MDB,SDB , Distribution Transformers, Lightings, PLC Automation Panels, Control Panels, Customized Panels , ZESCO Type Feeder Pillars ( All Range up to 3200 A), VFD Control Panels, UPS ,Soft Starters bus ducts, Medium Voltage Switchgear Supplier ( RMUs, VCB), 33/11 KV Sub-Station designing, Supply & Installation .Power Quality Monitoring & Energy Management.*

The success path comes from years of determination. Dedicated and hardworking field of expertise team of experienced engineer who always stand to serve the best in the industry. Committed team of the engineers has the vast experience of doing work in punctual and perfection way. Our other supportive team of sales and marketing professionals, quality controllers and skill workers stand to serve you.

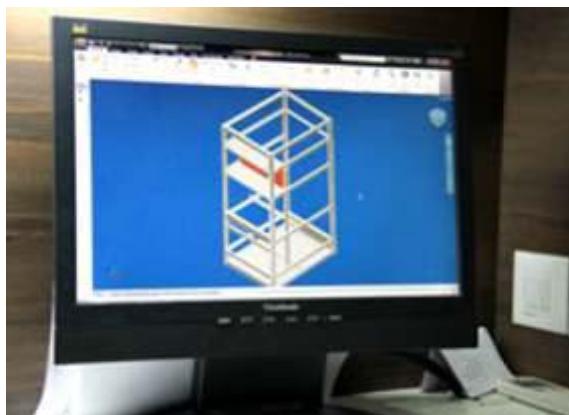
The keys to our success are price competitive products & solutions, prompt delivery & friendly, professional service. Our commitment to design, coupled with advances in manufacturing technology, provides customers a greater range of options in the choice of goods & services available. We supply into a competitive market, where the demand for standard products is balanced by the need for custom designed solutions.

We adopt a mission of comfort satisfaction. Southern Switchgear & Automation Ltd. applies the seamless quality which always performs work to make ideal for your needs to build a strong lifelong relationship. our discipline of work and professionalism, perfection help to keep achieved delight. We intend to make growth to be part of your firm of work.

# Strength

## Technology

We apply the top notch quality work to design and manufacture of perfect panel board which is easy to install. We committed to the perfect personalized notch of your recruitment by using world class quality. We allow 3-D software for pre-engineering to exact give the demands of your needs.



## Infrastructure

We have well developed and comfortable working atmosphere with high tech machines in Zambia's most progressive city and business hub of Lusaka, Zambia. Our production unit is spread over an area of 3200 Sq.ft and is fully equipped with all kinds of machines like imported bus bar processing machine to get quality work. Besides, we also have Testing Facilities and R&D facilities for providing quality tested products to clients. We utilize latest imported machines to improve products capabilities to work in stringent condition and deliver high class products.

# Main Sub Distribution Board

## Specifications

1

Compatible and ASTA type tested in accordance with IEC 61439-1 & 2.

3

Bus bar short-circuit withstand capacity up to 65A for 1 Sec / 65KA for 3 Sec

6

Designed for Ambient temperature up to 50 °C

Rated insulation voltage up to 1000V

4

Main bus bars up to 6300A

5

Bus bar short-circuit withstand capacity up to 65A for 1 Sec / 65KA for 3 Sec

7

Available For Indoor & Outdoor Applications, Up To Ip55

8

Neutral bus bars are rated up to 100% of the main bus bar and Earth bus bars are rated up to 100% of the Neutral bus bar



# PCC Panel

## Specifications

- Compatible and ASTA type tested in accordance with IEC 61439-1& 2.
- Rated insulation voltage up to 1000V
- Main bus bars up to 6300A
- Bus bar short-circuit withstand capacity up to 65A for 1Sec / 65KA for 3 Sec
- Form of separation : F3 , F4
- Neutral bus bars are rated up to 100% of the main bus bar and Earth bus bars are rated up to 100% of the Neutral bus bar
- Designed for Ambient temperature up to 50 °C
- available for indoor & outdoor applications, up to Ip55
- Modular / Draw out design



# Motor Control Center

## Specifications

- Type tested assembly in accordance with IEC 61439 –1& 2
- Rated insulation voltage up to 1000V
- Main bus bars are rated up to 6300A
- Bus bar short-circuit withstand capacity up to 65kA for 1Sec / 65KA for 3 Sec
- Neutral bus bars rated up to 50% OR 100% of the main bus bar
- Earth bus bars rated up to 100% of the Neutral bus bar
- Fully compartmentalized design up to Form-4b separation.
- Designed for Ambient temperature up to 50 °C
- Positive interlocks to avoid accidental withdrawal of the modules during operation
- Available for indoor & outdoor applications, up to Ip55
- Standard Color, RAL 7035 (other colors on request)
- Latest MCC Withdraw able technology using "IDS System"





Electric's motor control centers are equipped with motor starters, protection devices, power feeders, and interlocking relays in a modular enclosure. They are used mainly in industry, buildings such as water pumping and treatment plants to provide a central control unit for multiple electric motors.

# Sub Distribution Board (SDB)

## Specifications

- Compatible and type tested in accordance with IEC 61439-1& 2.
- Rated current Available up to 630 A.
- Fully insulated bus bar system.
- High Bus bar short circuit withstand tested for 35KA.
- Multi Outgoing feeders' connections. Optional metering (Ammeter & Voltmeter & Digital meter)
- Can be added separately with metering kit above the panel board.
- One solid piece Earth & Neutral Brass Bus bar
- Available for indoor & Out door applications, up to Ip66.
- Standard Color, RAL 7035 (other colors on request). Stand as per request



# Control Desk

- The COSTOMIZED control panels are designed to make monitoring and control of devices easier and more convenient in facilities such as industrial plants and laboratories, steel mills etc.





## Technical Specifications:

- **Rated insulation voltage 1000 V**
- **Available for indoor & outdoor\*** applications
- **Devices may vary according to customer requirements**

# Generator Solutions



## Complete Generator Solutions

GENERATOR  
SALES

CHANGE  
OVER  
PANELS

AMF PANEL  
(AUTO MAINS  
FAILURE PANEL )

An electric generator is a device that converts mechanical energy Obtained from an external source into electrical energy as the output.

Generators are useful appliances that supply electrical power during a Power outage and prevent discontinuity of daily activities or disruption Of business operations. Generators are available in different electrical and physical configurations for use in different applications. Our competent installers will gladly advise you on all generators technology matters help you to choose the system that's just right for you and after installation will offer you comprehensive service.

## Generator –mains Synchronizing Panel

Synchronizing panels are designed for commercial and industrial settings. Their main function is to supply a large amount of power from multiple engine generators

## Specifications

- Type tested in accordance with IEC 61439 -1 & 2.
- Rated insulation voltage 1000V.
- Main bus bars rated up to 12,000 A.
- Neutral bus bars rated up to 100% of the main bus bar, Earth bus bars rated up to 50% of the Neutral bus bar.
- Can be interfaced with the Building Management System (BMS) for monitoring and controlling.
- Designed for Ambient temperature up to 50 °C.
- Available for indoor & outdoor applications, up to IP55.
- Standard Color, RAL 7035 (other colors on request).



# Automatic Transfer Switch

Automatic Transfer Switch (ATS Panels) provides a solution to handle transfer of critical loads to emergency sources using simple design with high reliability. Ensures the continuity of electrical supply with minimum interruption via an automatic change-over system from normal supply to emergency supply.



## Specifications

- Rated insulation voltage 1000V
- Main bus bars rated up to 6300A
- Neutral bus bars rated up to 50% or 100% of the main bus bar, Earth bus bars rated up to 50% of the Neutral bus bar.
- Designed for Ambient temperature up to 55 °C Can be interfaced with the Building Management System (MS) for monitoring and controlling.
- Can be designed with multiple incomers and bus-couplers.
- Available for indoor & outdoor applications, up to IP55



# Out Door Type/Zesco Type Feeder Pillar

- Outdoor type IP65
- Fuse type / MCCB type
- ZESCO authorized feeder pillar



## Medium Voltage Services

SOUTHERN SWITCHGEAR & AUTOMATION offers a wide range of (Make- ABB and SCHNEIDER) high and medium voltage switchgear in order to suit customers' requirements. For very demanding conditions the MV switchgear comprises of the following:

- Vacuum & SF6 Circuit Breaker
- Circuit Breaker Feeders
- Bus Section Switches
- Ring Main Units
- 11kV Metering units & associated equipment

Our Sales team can assist you with network design, and protection requirements ranging from typical transformer feeders and incomers to generator and utility system protection



33 KV SF6 PANEL



11 KV SF6 PANEL



MV design , installation, testing and certification up to and including 33kv on transmission and distribution are all services offered by SOUTHERN SWITCHGEAR & AUTOMATION LTD.

# Power Factor Correction

- Internal Mounting
- Capacitor Mounting
- Complete Wired Panel

The power factor correction panels are designed to improve the power factor in electrical systems while ensuring energy and cost efficiency. They are suitable for a variety of processing plants with fluctuating loads, such as steel plants, chemical plants, paper mills, and automotive plants.

Power factor is the ratio between KW and the KVA drawn by an electrical load where the KW is the actual load power and the KVA is the apparent load power. Simply it is a measure of how efficiently the load current is converted into useful work output and more particularly is a good indicator of the effect of the load current on the efficiency of the supply system.

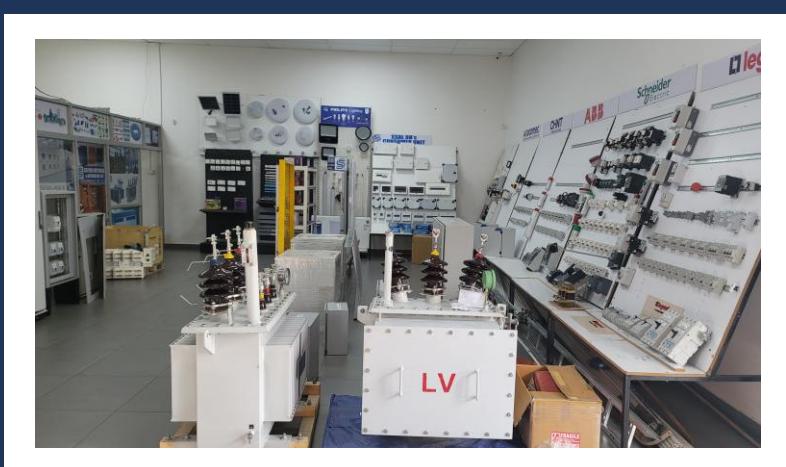
you will notice an immediate improvement in power factor, a more efficient use of your available electrical power and of course monthly savings in your electricity bills



## Specifications

- Reduce Electricity Bills
- Reduce power loss.
- Reduce CO<sub>2</sub> emissions.







# Voltage Optimization Voltage Stabilizer

*Southern Switchgear & Automation  
Offer a wide range of Voltage  
stabilizers to cater various  
marketing segments*

**Comprising of the following  
different types**

- Servo Type Voltage Stabilizers
- Static Voltage Stabilizers
- IGBT Based Voltage Stabilizer



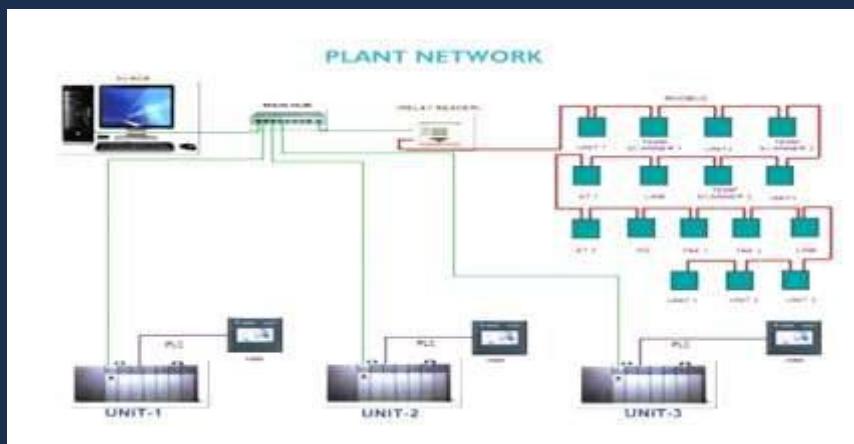
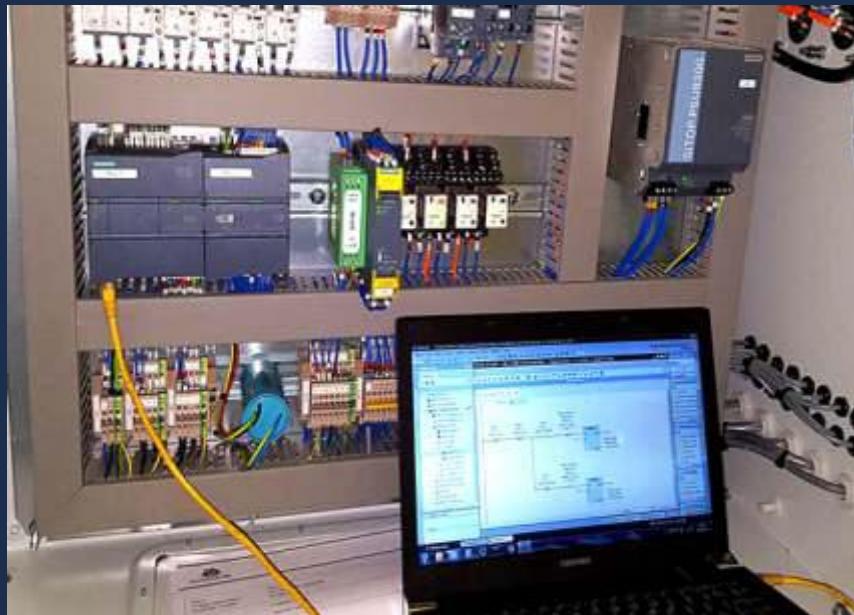
**Salient Features of  
the stabilizers are**

- Full Solid State Controller Operator Panel
- Independent Phase Balancing and Control
- LCD for Data Monitoring
- True RMS measurement, feedback and control
- Keypad for Parameter Setting
- Line to Line & Line to Neutral RYB Voltage and Current indication
- Settable Trip Voltage and Current Limits
- Fault Status Display
- Under Voltage / Over voltage / Over Current protection
- Auto / Manual Operation Facility
- Healthy power Output available indication Lamp
- Surge Voltage Protection
- Inbuilt Manual Bypass (Optional)
- Automatic Load Disconnection (Abnormal Condition)

# Automation And Instrumentation

Design and implement the correct solution for your business. We offer our clients instrumentation design, supply, installation, calibration and software integration services allowing their infrastructure to achieve maximum process results. We offer services across a range of applications

## ***PLC, HMI, SCADA Control, Including Flow, Pressure, Temperature, Vibration, Level, Density, Viscosity***



# SOLAR SOLUTIONS

## Complete Solar Solutions:

- Solar panels
- Batteries
- PV Mounting parts



**we offer complete solar power systems and solar power products with comprehensive accessories for:**

- Commercial & industrial applications
- Private residential buildings
- Public buildings
- Agricultural applications
- Business
- Stand-alone off-grid installations
- Investors

# Transformers

Southern Switchgear & Automation and Rajasthan Powergen Transformer Pvt. Ltd. are channel Partner in region Offers a wide range of Standard Distribution Transformer the range typically covers from 25 kVA to 3500kVA, with a typical 11000V input to 400 V No-load output, but any size and voltage range can be catered for, up to 20 MVA at 33kV.

**SOUTHERN SWITCHGEAR & AUTOMATION LTD**

**Offers distribution transformers  
in following types**

- Standard Power Transformers with traditional oil cooled based system .
- Cast resin self extinguishing type dry transformers with high mechanical strength to sustain high electro mechanical forces.



## DISTRIBUTIONS TRANSFORMERS





2011 - 2021

With the strong foundation laid...

We made

A Successful First Decade



TRANSFORMERS  
& STRUCTURES

Amorphous  
Transformers

Distribution  
Transformers

Solar  
Transformers

POWERING THE NATION

Inverter - Duty  
Transformers

Dry Type  
Transformers

Power  
Transformers

Fabrication

MEMBER OF



Confederation of Indian Industry



# OUR CLIENTS

**DAILY GOLD  
LIMITED**

**SHRI  
INVESTMENTS**

**MUMBWA  
ENERGYV**



**ACACIA FOOD  
BEVERAGES LTD ,  
LUSAKA , ZAMBIA**

**BIG TREE  
BEVERAGES  
LTD, LUSAKA,  
ZAMBIA**

**TRADEKING  
LTD**

**SARO AGRO  
INDUSTRIES  
LTD**

**LUSAKA  
WATER**

**SCAW  
LTD.**

**UNIVERSAL  
MINING**

**KVA POWER  
SOLUTION**

**SABLE  
TRANSPORT**

**ELITE  
INDUSTRIES  
LTD**

**POLYTHENE  
PRODUCT**

**LIBERTY  
TRANSPORT**

**LIBERTY  
TRANSPORT**

**MOUNT  
MERU  
PETROLIUM  
LTD**

**ZALCO  
CABLES**

**MOUNT  
MERU  
MILLERS LTD**

**KNOCKOUT  
GROUP**

**SEED  
CO LTD**

**JACOB  
ELECTRICAL**

**UNIVERSITY  
OF LUSAKA**

**VORTEX  
ELECTRICAL**

**SCAW LTD.**

**GAMBHIR  
ENTERPRISES  
LTD**

**AFRICAB**

# OUR CLIENTS



**KCM  
MINES**

**KGL  
GROUP**

**AIRTEL  
ZAMBIA**

**CEC**

**PIONEER  
POWER**

**ENERGY HUB**

**ZAMBIAN  
POTATO**

**RAMUJI  
RESOURCES**

**SIKALE WOOD**

**SUPREME  
PIPES**

**AFRICAB**

**VIEW  
INVESTMENT**

**CALIFORNIAN  
BEVERAGES**

**MUSA BISCUIT**

**MAGESTI  
ZAMBIA**

**NEELKANTH  
CABLES**

**NYNAGALU  
ELECTRICALS**

**BESTBUY**

**RUDRA  
COPPER LTD**

**UNITY  
PACKAGES LTD.**

**SWISSBAKE  
PRIVATE LTD**

**SUPA  
OIL LTD**

**SUNGLOBE  
HOLDING LTD**

**LAKE OIL  
PETROLEUM LTD**

**ACE  
METAL**

**UNIFLAX  
CABLE LTD**

**YOYO  
FOOD**

**WILLMAR**

**CHANNEL PARTNER WITH ABB LV SWITCHGEAR & DISTRIBUTION PANELS**

E-mail :-copperbelt@southernswitchgear.com

E-mail :-rav@southernswitchgear.com



# POWER

## CONTROL PANEL MANUFACTURER & EPC CONTRACTOR

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**SOUTHERN  
SWITCHGEAR &  
AUTOMATION LTD.**

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