



**INDUSTRIAL AUTOMATION,
ELECTRICAL ERECTION AND
TURNKEY EPC –
ON-TIME. SAFE.
COMPLIANT.**



Manufacturing & Commissioning of:

MCC Panels, PLC Panels, DCS Panels, APFC Panels, Control Panels,
PCC Panels, MLDB Panels, LT Panels, HT Panels, Change Over Panel,
Servo Panel and Compact Substation

ABOUT US

Aarav Automation System delivers turnkey industrial automation, electrical erection, and EPC services for boilers, turbines, sugar & process plants. 12+ years' experience, 200+ completed units across India & Africa." "A Trusted Domestic & Overseas Partner with 70+ completed engineering and automation projects.

We offer complete end-to-end automation and engineering Service.

We provide reputed industrial products, advanced automation solutions, and professional engineering services that help businesses grow with efficiency, sustainability, and smart technology. Our control panels and automation offerings are designed to make operations smoother, safer, and more productive.

With a broad background in various industrial automation sectors and a highly trained team of engineers, we deliver innovative solutions that boost output, enhance product quality, and improve plant safety. Our durable and reliable systems support long-term operational success.

By understanding customer needs and applying modern engineering practices, we deliver solutions that create real value. Our cost-effective automation offering ensures that our customers remain competitive and future-ready in a fast-changing industrial world.

Our Core Specializations:

- Boiler Automation.
- Automation Systems Integration.
- Process Automation.
- Process Instrument Calibration.
- PLC, HMI, SCADA Software Development.
- AC Drive Solutions.
- Servo-based Solutions.
- Control Panel & Electrical Panel Manufacturing.
- Deals in Control Desk, PLC & DCS Panel.
- Engineering and Support Services for Automation Sectors.

We Provide the Following Services:

- Customize Automation Solutions.
- Complete Control System Design, Drawings, and Bill of Materials.
- Detailed System Programming (PLC, DCS, SCADA, HMI, VFD, Servo, web interfaces, etc.)
- On-site Commissioning, Testing, and Complete Validation.
- Training and Customer Support.
- Annual Maintenance Contract.
- Manufacturing All Types of AC/DC Drives, PLC, MCC, and PCC Panels.
- Erection of All Plant instruments & Electrical.

We Deal in the following makes

- P&F Make- Signal Isolator/Proximity Switch, etc.
- Masibus Make-Flow Totalizer/Signal Isolator/Temp Scanner/Display Indicator, etc.
- Rotex- Seal Kit/Solenoid Valve/Spare etc.
- Meanwell Make – Power Supplies etc.
- Pneukon & Forbes Marshal- Control Valve & Positioner
- Wika/Danfoss/Indfoss- Pressure switch etc.
- Walia/General – Pressure Gauge & Draft Gauge Temperature gauge etc.
- Tempsons/Unitech- RTD, Thermocouple
- Cables & Wire – Power Cable, Instrument Cable, Compensating Cable
- ABB/Forbes Marsha – Vortex Flow Meter, Turbine Flow Meter, Hot Water Flow Meter, AC and DC Drive etc.

OUR ERECTION & COMMISSIONING

We also undertake automation projects on a turnkey basis and provide installation, services, Erection, and programming of all types of good brands available in the market. We have skilled manpower for achieving any goal in the Electrical, Instrument & Mechanical erection of the plant.



MOTOR CONTROL CENTER (MCC) PANELS



A Motor Control Center (MCC) is an assembly of one or more enclosed sections having a common power bus and principally containing motor control units. Motor control centers are in modern practice a factory assembly of several motor starter. A motor control center include variable frequency drives, programmable controller, and metering and may also to be electrical service entrance for the building. Motor Control Center have been used by the automobile manufacturing industry which used large number of electric motor. Where very dusty or corrosive processes are used, the motor control center may be installed in a separate air-conditioned room, but often and MCC will be on the factory floor adjacent to the machinery controlled.

PROGRAMMABLE LOGIC CONTROL (PLC) PANEL

PLC Panel (Programmable Logic Control Panel), We design, develop and manufacture the customized Programmable Logic Controller System (PLC) and Supervisory Control & Data Acquisition (SCADA) based panels for various industries. These systems are in compliance with various industrial standards and are used in various applications.

These panels are compact in construction, easy to operate and consume less electricity. These Panels are compatible for different Industrial protocols to connect to SCADA, HMI & the computer to Sense, Control, Monitor & Log the different industrial signals & data sensed from various locations & appliances under the control.



DISTRIBUTED CONTROL SYSTEM (DCS) PANEL



Distributed Control Systems are extension of traditional controllers. The major concept of distributed control systems application is derived from the idea of decentralizing the control unit and establishing a common network between the operator, engineering stations.

DCS tends to be used on large continuous process plants where high reliability and security is important, and the control room is not geographically remote. DCSs are connected to sensors and actuators and use set point control to control the flow of material through the plant. Although 4–20 mA has been the main field signalling standard, modern DCS systems can also support field bus digital protocols, such as Foundation Fieldbus, profibus, HART, Modbus, PC Link, etc., and other digital communication protocols such as modbus.

AUTOMATIC POWER FACTOR CORRECTION (APFC) PANEL



Automatic Power Factor Correction (APFC) Panels are designed to provide unmatched performance, reliability and versatility for critical Power Network applications. All the controllers offer rock-solid control & monitoring, front panel status reporting and control operation combined with Superior design and robust construction. We follow 100% testing that includes the following (Visual and dimensional check, Mechanical operation check, Applied voltage test to earth on power circuits: 3kV for 1 minute, Electrical and functional operational check) after passing a Routine Factory Test (RFT) Certificate is issued with every panel manufactured.

POWER DISTRIBUTION BOARD (PDB) PANEL

Our Power Distribution Panels are used in applications like power distribution, ground-fault protection and monitoring, apart from this Distribution Panel also serves as an alarm panel for freeze protection, board temperature maintenance and heat-tracing applications. These Power Distribution Panels are integrated with ground-fault circuit breakers in an enclosure having an assembled circuit-breaker panel board with or without alarm contacts.



POWER CONTROL CENTER (PCC) PANEL



Power Control Center is used for distribution and control of various sources used in industry. Normally, a Power Control Center is installed near the power source, hence the fault level is high. Busbar systems in a Power Control Center are designed to suit the fault level as well as temperature rise to 40°C above ambient. Ample space is provided for cable termination. Various protections, viz. short circuit, overload, earth fault under voltage etc. are provided to protect the source and equipment.

MAIN LINE DISTRIBUTION BOARD (MLDB) PANELS



For Distribution of Power to Lighting Facilities all around the Plant, Offices, Hospitals, Airports, Commercial Complexes, MLDB are very useful. We take utmost care during manufacture to reduce maintenance requirement.

Designed with copper or aluminum bus bar, wired & examined on our numerous parameters in order to assure the strength and durability. Our offered panels have high demand in the market & ensure maximum safety along with maximum space-utilization. We identify the actual needs of the patrons and then design the offered panels using advance technology.

LOW TENSION (LT) PANELS

LT Distribution Panel is widely demanded as these receive power from the transformers and supply it to the electrical appliances. Our complete range of Low Tension Distribution Panel is manufactured as per the international standards in order to offer reliable operations.

We use high rank raw materials while manufacturing our products. Our technically sound team thoroughly tests our LT power distribution panel on a regular basis in order to offer excellent quality standards. Moreover, we have provided sturdy construction so that these can withstand tough environmental conditions.



HIGH TENSION (HT) PANEL

HT Panels are specifically engineered for power distribution centers to regulate high currents and voltages, ensuring enhanced safety in power lines. Constructed according to electrical engineering standards, these panels are highly efficient and durable. They can also be utilized in large-scale industries to control electrically powered machinery.

The HT Panels come equipped with a strong metallic casing that serves as a protective shield, safeguarding the electrical components from any potential damage. The HT Panels are crafted with top-quality industrial materials and high-performance electrical components. Our High Tension Panels showcase exceptional durability, a sturdy panel structure, and effective anti-corrosion properties.



AUTOMATIC CHANGE OVER PANEL



We offer Automatic Changeover Panels Generator that are installed for automatic changeover from mains to stand-by generator at the time of power failure. Fabricated from premium quality raw material, these automatic changeover are durable, corrosion resistant, dust and vermin proof. Easy to operate and install, the Automatic Changeover Panels Generator are used in areas like foundries, apartments, textiles, sugar and chemical industries.

Application:

AMF Panel & Battery Chargers are used where the generators are installed between main AC and load. It will Start and Stop the Generator automatically and Changeover the EB/Generator lines.

Models & Amps/ Kva Rates :

2Kva, 3Kva, 5Kva, 7.5Kva, 10Kva, 2000Kva and more.

SERVO DRIVE CONTROL PANEL

With the support of our skilled employees, we are manufacturing and supplying Servo Drive Panel. Under the guidance of our well-experienced professionals, this panel is made by using the superior quality materials and ultra-modern techniques as per the latest market trend. The offered Servo Drive Panel is tested on different parameters to ensure the comfort level. The provided Servo Drive Panel is extensively admired among our customers due to its long service life and sturdiness.



COMPACT SUBSTATION



The Sub Distribution Panel or Board consists of a basic frame with all the necessary electrical components such as main isolating switches, emergency shut-down mechanism. RCD's, line circuit breakers, controls and contractors for individual workgroups. The distributor can supply multiple workgroups with electrical power independently. We design and manufacture the Sub Distribution Panel according to the Customer's need through reliability. Selectivity, durability and time of taking action to Product Quality which comply with cost effective, long life and application-wise.

We are Engaged in Trading Of



Full Range of Cable Trays and Accessories



Complete range of Cable Glands and Lugs



Temperature Sensing & Measurement Devices



Motors



Industrial Sensors



Thermocouples



Complete Range of Power Cables



Complete Range of Instrument Cables



Instrument Mounting Material



Industrial Flow Meters

Service Provider for



Erection of Electrical & Instrument Solutions

Installation, maintenance, commissioning, and inspection of electrical and instrumentation systems

We provide end-to-end expertise in electrical and instrumentation work packages. Our services include site pre-calibration of instruments, erection of electrical and instrumentation equipment, installation of cable support systems, site cabling, glanding and termination, instrumentation pipework, hook-ups, earthing and lightning protection, inspection, loop checking, and final commissioning.

We also have strong experience in process control systems—both pneumatic and electronic—and in the application and deployment of a wide range of PLC-based automation systems. In addition, we offer complete engineering and design solutions in the fields of Electrical, Control, and Instrumentation.

Boiler Commissioning Solutions

Installation, maintenance, commissioning, and inspection of boiler systems and complete automation



A well-executed boiler commissioning process ensures long-term safety, performance, and operational efficiency. It provides the owner with a system that functions reliably and can be easily maintained, while establishing a strong working relationship between the engineering team and field personnel.

We ensure the designer's intent is fully achieved, support craftsmen with on-site technical guidance, and coordinate subsystem startups and initial testing. Our services cover the complete commissioning of boilers, including installation, operational review, and maintenance evaluation.

We also perform regular checks on load estimation, boiler sizing, staging, and control. Our objective is to prevent issues that may affect reliability and efficiency, such as boiler short-cycling during periods of low demand.



Turbine Commissioning Solutions

Installation, maintenance, commissioning, and inspection of electrical and instrumentation systems

Turbine commissioning ensures maximum equipment protection and performance during startup. Our procedures include selecting the correct oils, filtration services, and essential flushing to maintain turbine health. We carry out proper installation using recommended lubricants and original spare parts to ensure optimal performance and timely work delivery.

Our trained personnel verify electrical and mechanical lockout, implement proper tagging before working on equipment, and provide recommendations to minimize risk. In short, we reduce workforce time during plant startup and help maximize your operational profitability.



Factory /Plant Automation Solution

Accelerate the shift to intelligent automation to increase productivity and reduce labour costs

Our factory and plant automation solutions transform industrial operations through advanced technologies such as robotics, IoT sensors, and artificial intelligence. These systems optimize production processes, reduce manual intervention, and enhance overall efficiency. By automating tasks such as assembly, quality control, and inventory management, industries benefit from lower labour costs and improved product quality.

Real-time monitoring and data analytics further support smarter decision-making, enabling proactive maintenance and resource optimization. In total, our automation solutions enhance productivity, streamline plant operations, and strengthen global competitiveness.

Service Provider for



Commission & Erection of Solar Panel Industry

**Delivering smart solar power
installation solutions with unmatched
efficiency and cost-effectiveness**

Solar power plant installation and commissioning require systematic planning. Beginning with site assessment, structural preparation, and panel mounting, each phase demands strict adherence to safety protocols and industry standards. Our skilled engineers manage inverter setup, electrical integration, system calibration, and performance optimization to ensure maximum energy output.

Commissioning includes thorough testing, monitoring, and troubleshooting to resolve technical issues before handing over a fully operational plant. Our teams work closely with engineers and project managers to ensure timely completion within budget.



Commission & Erection of Sugar plant

**Providing intelligent automation
solutions for sugar plant erection at
affordable cost**

Sugar plant commissioning involves preparing the site, constructing the facility, and installing machinery for sugar production. Our engineers ensure proper equipment installation, testing, and troubleshooting to achieve smooth operation. Close coordination between engineering and construction teams is maintained to meet project deadlines and budgets.

Once commissioned, the sugar plant begins processing sugarcane or beet into products such as sugar, molasses, and ethanol, contributing effectively to the food and beverage industry.



Engineering, Procurement and Construction (EPC)

A single contractor handling complete design, procurement, installation, and commissioning

An EPC project provides a complete approach to managing large-scale industrial construction. We oversee the entire project lifecycle—from initial design and engineering to procurement and construction—ensuring seamless coordination between phases.

EPC contractors manage subcontractors, ensure regulatory compliance, and deliver the project within the agreed timeline and budget. This integrated approach provides clients with a turnkey solution for complex infrastructure such as power plants, refineries, and industrial facilities.

Our Teamwork and Customer Service



In our company, teamwork is the cornerstone of our success. Our engineers, project managers, technicians, and support staff collaborate closely to ensure seamless project execution. This cross-functional collaboration enables us to deliver high-quality results efficiently.

We provide 24/7 support to our clients, ensuring minimal downtime and quick resolution of any issues. Our maintenance contracts and ongoing support services reflect our commitment to customer satisfaction and long-term partnerships. We value customer feedback, using it to continuously improve our services and processes.

Our Esteemed Clientele

UTTAM
DISTILLERIES LTD.


uttamenergy


THERMO FAB

Naveen Harit Shakti

IBL
Group of Companies




NATIONAL FOODS
the hing specialist


Gramp Enviro Solution




NAINI
Ethically Firm. Environmentally Strong


SCI INDIA LIMITED

Sumitra Industries

H.S. ENGINEERING


SHREE RAM
SHREE RAM INDIA GUMS LTD.

CBL
▶▶▶ Steaming Ahead


CHRISTIAN PFEIFFER


S.P SOLVENT PVT LTD


ASSAGO GROUP

SRR
Inspiring Growth

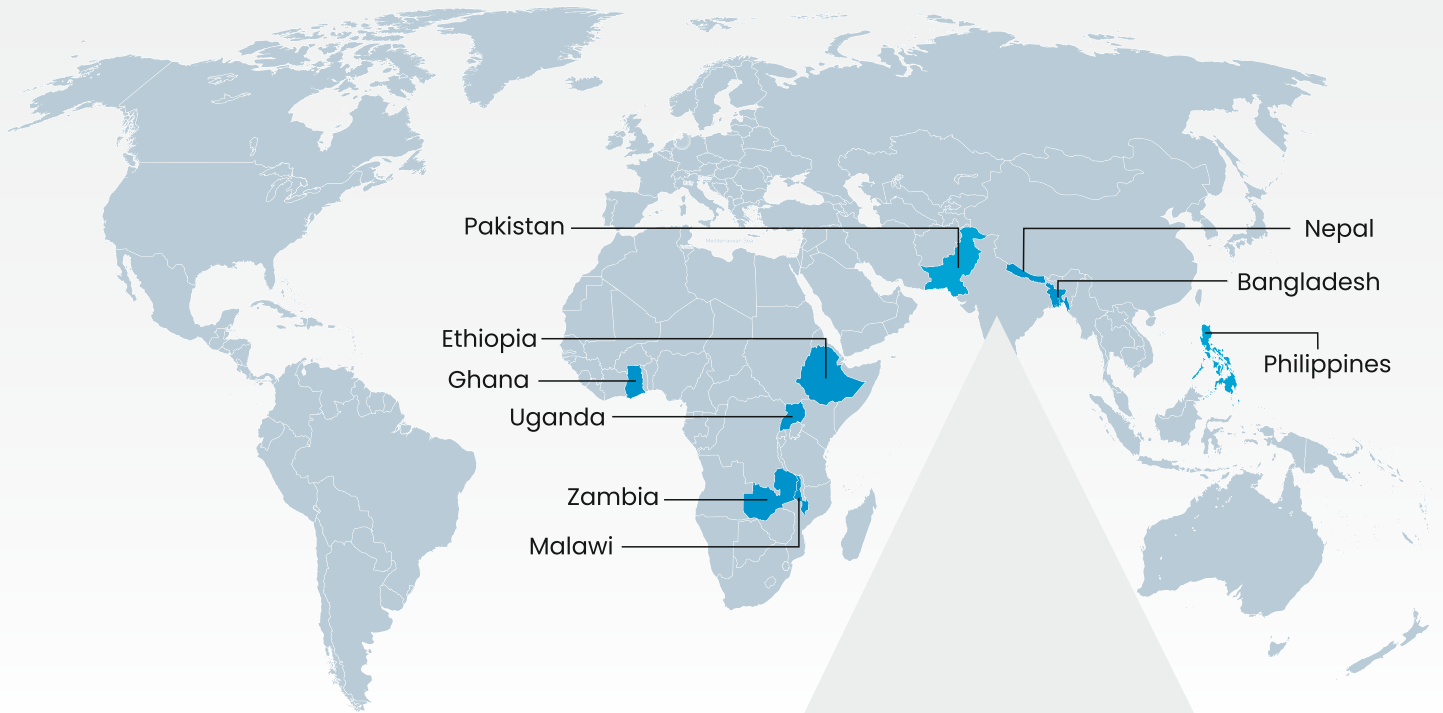

BIO-SYNERGY LIFECARE PVT LTD


SMCS


Bharat Petroleum

And Many More...

Our Domestic & Global Presence

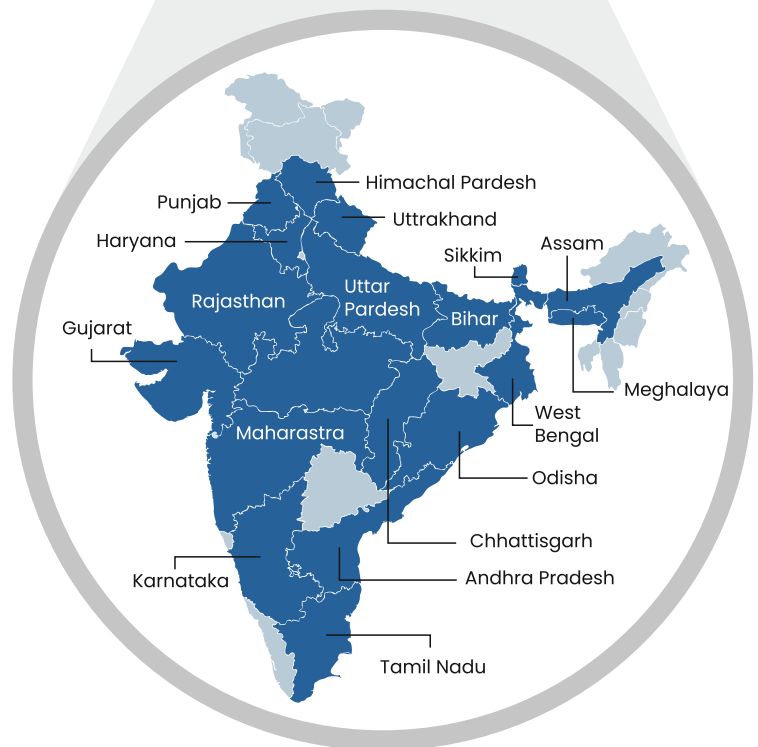


International Presence

- Pakistan
- Malawi
- Uganda
- Zambia
- Bangladesh
- Nepal
- Ghana
- Ethiopia
- Philippines

Domestic Presence

- Assam
- Andhra Pradesh
- Bihar
- Chhattisgarh
- Gujarat
- Haryana
- Himachchal Pradesh
- Karnataka
- Madhya Pradesh
- Maharashtra
- Meghalaya
- Odisha
- Punjab
- Rajasthan
- Sikkim
- Tamil Nadu
- Uttar Pradesh
- Uttarakhand
- West Bengal





WE SUPPLY & DISTRIBUTE:

- Cable Trays • Thermocouples • RTD • Motors • Sensors • Lugs • Power Cables
- Instrument Cables • Glands • Instrument Mounting Materials

WE OFFER END-TO-END SOLUTIONS FOR:

- Site E&I Erection • Panel Manufacturing • Commissioning
- Automation Integration • Annual Maintenance

INDUSTRY WE SERVE IN "Delivering Excellence Across 12+ Industrial Sectors"



Pharma &
Chemical Industry



Rice Industry



Sugar Industry



Cement Plant



Food & Beverage
Industry



Fertilizer Plant



Solar Plant
Industry



Jute & Textile
Industry



Distillery Power
Plant



Paper Industry



Printing Press
Industry



Aluminum
Extrusion Plant



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