



**Commitment for best
service**

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Sinwave Automation & Electrical Works Pvt Ltd

Commitment for best service



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COMPANY PROFILE OF SINWAVE AUTOMATION & ELECTRICAL WORKS PVT. LTD.
(AN ISO 9001:2015 CERTIFIED & CPRI APPROVED COMPANY)

COMPANY OVERVIEW

A Journey of Innovation and Success



OVERVIEW

Sinwave Automation & Electrical Works Pvt. Ltd. is a trusted engineering and automation solutions provider headquartered in Kolkata, West Bengal. Since 2009, we have been delivering end-to-end industrial automation, electrical control systems, and turnkey project execution for manufacturing and process industries across India.

We specialize in PLC & SCADA systems, MCC & VFD panels, electrical installations, IIoT-enabled automation, and plant modernization. With engineering expertise across Siemens, Allen-Bradley, and Delta platforms, we design and deploy smart, reliable, and scalable solutions tailored to each client's operational goals.

FACT SHEET

Year Established	2009
Legal Status	Private Limited Company
Business Focus	<ul style="list-style-type: none">• Automation & Electrical Projects• Engineering & System Integration Services• Industrial Automation Products Trading
Revenue Range	Up to ₹10 Crore

BACKGROUND & CAPABILITIES

A Journey of Innovation and Success

BACKGROUND & DEVELOPMENT



Under the leadership of our Technical Director, Mr. Arijit Dasgupta, with over 22+ years of industrial automation experience, Sinwave Automation & Electrical Works Pvt. Ltd. has evolved into a trusted partner for advanced automation, motion control, and industrial electrical solutions. Supported by a highly skilled team of automation and electrical engineers, we deliver reliable, scalable, and industry-ready systems across diverse sectors.

OUR CAPABILITIES

- Custom-built electrical & automation panels (PLC, Drive, MCC, Control Panels)
- Turnkey automation & electrical projects — design, installation, testing & commissioning
- Industrial upgrades & system retrofits for improved performance and energy efficiency
- Remote monitoring, data logging & Python/SQL-based reporting
- Industry 4.0-ready automation solutions

APPLICATION AREAS

Empowering Industries Through Smart Automation



Sinwave's automation and electrical solutions support a wide range of industrial and engineering applications. Our expertise enables industries to enhance productivity, modernize existing systems, and adopt advanced automation technologies for improved reliability, safety, and efficiency.

Key Areas We Serve

- Modernization & automation of conventional machines into smart, high-performance systems
- Upgradation of existing PLC-based machines to latest industrial automation standards
- Turnkey outsourcing for:
 - PLC programming
 - Electrical & control panel wiring
 - Electrical design documentation
 - HMI & SCADA system development
 - Motion & VFD commissioning
 - Site erection, testing & commissioning support

Supported by ISO-certified processes, CPRI-approved panel quality, and IP-rated panel manufacturing, Sinwave is committed to delivering technology-driven performance with safety, reliability, and engineering excellence.

With a proven track record in diverse industrial applications, we help factories evolve into smart, efficient, and data-driven manufacturing systems — powering the next generation of industrial automation in India.

SERVICE PORTFOLIOS

Complete Automation – From Design to Commissioning



At Sinwave Automations & Electrical Works Pvt. Ltd., we specialize in delivering complete industrial automation solutions – from system design to commissioning and lifecycle support. Our expertise spans PLC, HMI, SCADA, Drives, Servo systems, and advanced industrial communication networks. We integrate cutting-edge products from leading OEMs and provide fully customized automation systems tailored to industry needs.

WE OFFER

Category	Services Offered
Core Automation Services	PLC Programming & Logic Development HMI UI Design & Development SCADA Visualization & Programming Servo Drive & Servo Motor
Industrial Communication	Modbus, Ethernet, DeviceNet, ControlNet RS232 / RS485 / Industrial TCP/IP Industrial Protocol Integration & Support
Control Panel & Electrical Engineering	PLC, MCC, VFD & Servo Panel Design & Manufacturing IP65 Electrical Panels & Field Enclosures Electrical Schematics & Machine
On-Site Execution & Support	Industrial Equipment Installation & Wiring On-site Testing & Commissioning Machine Upgradation & Retrofitting Operation & Maintenance Support
Training & Documentation	PLC, SCADA, HMI, VFD & Servo Training Operator & Maintenance Training SOP & Operation Manual Preparation

PRODUCT PORTFOLIOS

Reliable, Certified & Custom-Built Industrial Panels for Modern Automation



We design and manufacture high-quality industrial electrical panels and enclosures built for reliability, safety, and seamless automation integration. Our products comply with industry standards and are engineered for robust industrial environments.

Category	Products We Manufacture
Industrial Panels	MCC (Motor Control Center) Panels PCC (Power Control Center) Panels PLC Automation Panels VFD & Drive Panels
Distribution Panels	PDB (Power Distribution Board) Panels
Industrial Enclosures & Workstations	Electrical Enclosures IP65 Industrial Panels & Field Enclosures Control Desk / SCADA Operator Desks



PROJECT PORTFOLIOS

Reliable, Certified & Custom-Built Industrial Panels for Modern Automation

Our completed projects showcase our ability to transform industrial environments with smart automation, robust electrical systems, and seamless plant integration. Whether upgrading existing systems or commissioning advanced automation for new facilities, Sinwave's execution combines engineering precision, field expertise, and proven industry experience. Every project we deliver reinforces our reputation as a trusted technology partner.



OIL AND LUBRICANT PLANT AUTOMATION

Automated lubrication is very essential for on going development of modern civilisation. We are very much experienced in this field also. We have done many of these types of projects successfully .List is as follows :

- Bhushan Steel
- Tata
- Tisco

EMULSION AND CRMB PROCESS PLANT AUTOMATION

Bitumen Emulsion and crumbrubber mixed bitumen are essential products for construction of National Highways. We have been successfully automising these kind of plants with the help of PLC, SCADA & HMI System. We have been satisfying so many road contractors all over India and abroad also.



PROJECT PORTFOLIOS

Reliable, Certified & Custom-Built Industrial Panels for Modern Automation



BASEMENT VENTILATION SYSTEM AUTOMATION

Basement ventilation systems exhaust pollutants and clear smoke during fires. Fire Design Solution offers smoke extraction and ventilation systems, while conventional ventilation is costlier. Pioneer in automation since 2009, providing over 300 projects in India and neighboring countries.

CONTINUOUS CASTING MACHINE AUTOMATION

We have also established ourselves in this field also. We have been doing single strand, two strand and three strand continuous casting machine automation in various parts of India as well as other abroad countries

Some of our renown customers are as follows:

- SRMB (WEST BENGAL AND ROURKELA)
- SHYAM SEL (WEST BENGAL)
- WATANIA STEEL (SAUDI)



INDUSTRIAL RO SYSTEM AUTOMATION

Reverse Osmosis (RO) is a water purification technology that uses a semi-permeable membrane and applied pressure to remove dissolved inorganic solids and larger particles from water. We have successfully executed multiple RO projects across West Bengal and other parts of India.



PROJECT PORTFOLIOS

Reliable, Certified & Custom-Built Industrial Panels for Modern Automation



DETERGENT & SOAP PLANT AUTOMATION

We have successfully commissioned detergent plants across various Hindustan Unilever Limited branches, delivering recipe management, report generation, and packaging automation solutions. Key projects include:

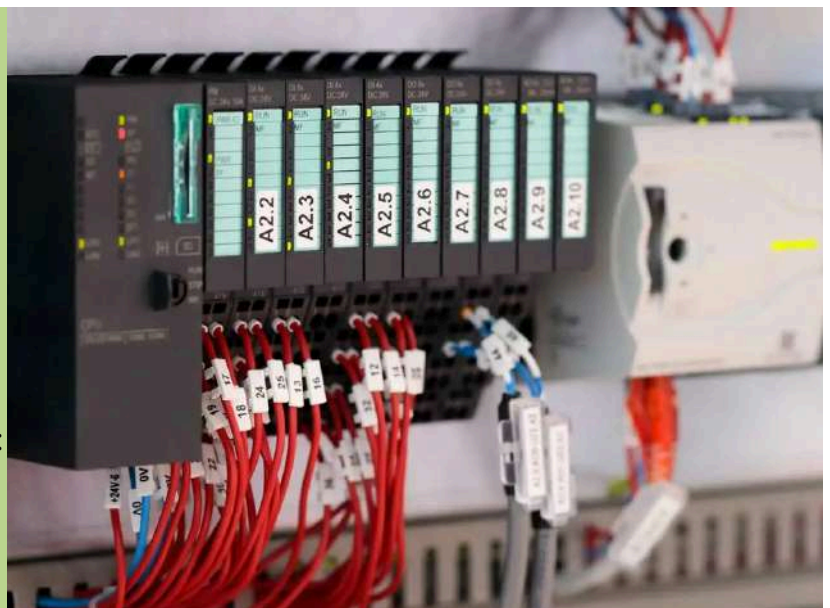
- Gardenreach Soap Processing & Packaging Plants
- Haldia Detergent Processing Plant
- Chemex (third-party HUL) Soap Processing Plant.

IIOT SYSTEM AUTOMATION

The Industrial Internet of Things (IIoT) connects machines with smart sensors to collect and analyze data. It enables predictive maintenance (fixing issues before breakdowns) and better field service (faster problem-solving).

We are using various types of IIoT devices from different companies such as:

- Siemens
- HMS Connect
- Delta



SAND WASHING PLANT AUTOMATION

For the past five years, we have successfully delivered single, double, and triple-wheel sand washing machines known for strong cleaning force and high application value. Built to national standards, our machines ensure excellent discharge quality, controlled size, and reliable performance—serving a wide range of customers across India.

PROJECT PORTFOLIOS

Reliable, Certified & Custom-Built Industrial Panels for Modern Automation



FOOD & BEVERAGE INDUSTRIES AUTOMATION

Automation is essential in the food industry for quality control, production speed, and profitability. It requires advanced solutions to meet demands for consistent quality across products and batch sizes, serving clients like:

- Frito-Lay India Pvt. Ltd.
- Varun Beverages Ltd.
- Monginis Foods Pvt. Ltd.

VCB BOTTLE ELECTROPLATING MACHINE (FULLY ROBOTIC)

An advanced automated system designed for high-precision electroplating of bottles. Ensures uniform coating, flawless finish, and enhanced durability with minimal human intervention. Fully robotic operation boosts efficiency, reduces errors, and delivers consistent premium quality for mass production.



ASBESTOS SHEET LAMINATING MACHINE

A specialized system for coating and laminating asbestos sheets to improve strength, durability, and resistance to heat and wear. Provides smooth, uniform lamination with high efficiency, ensuring reliable protection and extended sheet life for industrial applications.

PROJECT PORTFOLIOS

Reliable, Certified & Custom-Built Industrial Panels for Modern Automation



INDUSTRIAL CURING OVEN

A high-performance oven designed for curing and heat-treating metal parts such as bearings and components. By applying controlled heat, it enhances strength, durability, and performance of materials. Ensures uniform treatment, consistent results, and reliable operation for industrial applications.

AUTOMATED SHELL PRINTING MACHINE

A fully automated system designed to print directly on shells, casings, or cylindrical surfaces with precision and consistency. The machine ensures high-speed operation with uniform quality, reducing manual labor and increasing efficiency. Ideal for industries requiring branding, labeling, or decorative printing on shell-like components.



TUBE COILING MACHINE

An efficient system designed to coil tubes into precise, uniform rolls for easy handling, storage, and transportation. Ensures smooth operation with adjustable settings for different tube sizes and materials. Built for durability and accuracy, it reduces manual effort while delivering consistent, high-quality coils for industrial use.

PROJECT PORTFOLIOS

Reliable, Certified & Custom-Built Industrial Panels for Modern Automation



SACHET PRINTING MACHINE

A high-speed solution for printing logos, labels, and essential product details directly onto sachets. Delivers sharp, durable, and high-resolution prints that enhance brand appeal and ensure compliance. Designed for continuous operation with minimal downtime, making it ideal for large-scale packaging industries.

LAQUER MACHINE

A precision system for applying protective and decorative lacquer coatings to surfaces. Delivers smooth, uniform finishes that enhance durability, appearance, and resistance to wear. Designed for high-volume operations with consistent quality, minimal wastage, and reliable performance across diverse materials.



BITUMEN FILLING MACHINE

An automated system for safely and precisely filling drums with hot bitumen. Engineered to handle high temperatures, it ensures accurate filling, reduced wastage, and smooth, continuous operation. Perfect for meeting the demands of road construction and industrial applications.

QUALITY ASSURANCE

Precision. Reliability. Compliance — Delivered Consistently.

At Sinwave Automations & Electrical Works Pvt. Ltd., quality drives every solution we deliver. With years of engineering expertise, we ensure reliable, precise, and industry-compliant automation and electrical systems.

We follow structured processes, use certified components, and conduct rigorous testing from panel fabrication to field commissioning. Our commitment to excellence guarantees long-term system reliability, reduced downtime, and complete customer satisfaction.



Quality Assurance Highlights:

- Industry-standard engineering, testing & documentation
- Certified panel manufacturing (ISO & CPRI compliance)
- Structured design, programming & commissioning process
- Component sourcing from trusted OEM brands
- Rigorous panel inspection & functional testing
- On-site performance validation and safety checks
- Focus on long-term system reliability & zero-downtime goals
- Continuous improvement & customer-feedback driven practices

KEY PROJECTS & CLIENTS

Trusted by Leading Industrial & Manufacturing Companies Across India

Project Scope	Client / Location
PLC Programming & Commissioning – Dry Mix, Weighing, Level & Temperature Control Systems	Hindustan Unilever Ltd. (Haldia, Garden Reach)
PLC Automation for Bar Plant	Chemex Detergents (3rd Party for HUL)
DAP Bagging & Conveyor Automation	Tata Chemicals Ltd. (Haldia)
Car Parking Ventilation – Design, Panel Build & Commissioning	Airovient Fans & Systems / Elta Fans
Automated Bitumen Filling Plant – Panel & Commissioning	Baba Container & Energon Petrotech (Vizag & Mumbai) – 3rd Party for HPCL
Automated Lubrication System	Prakash Lubricants (Odisha)
Bitumen & Pre-Curling Plant Automation	Balmer Lawrie (3rd Party for Haldia Petrochemicals)
Ammonia Storage Automation	Sanjana Cryogenics (Haldia)
Power Management & Network Automation	Hooghly Metcoke & Tata Power (Haldia)
Water Pumping Automation	Kolkata Municipal Corporation / Voltas
Gear Cutting Machine Automation	New Allenberry Works (Kolkata)
Furnace System Control	Naskar & Co. (Kolkata)
Lift Control System	IBJI Company (Kolkata)
CRMB Plant & Flow/Temperature Automation	Tinna Overseas Ltd. (Delhi)
MCC Panel for Bitumen Plant	SAPCO Bitumin Co. Ltd. (Uluberia)
Poultry Feed Automation & Counting	J.K. Industries / Jupiter Commosale Pvt. Ltd.
Bitumen Plant Automation	Tanya Industries Ltd.
Industrial Explosives Automation	Indian Explosives Ltd. (Bokaro)
PLC Panel Manufacturing & Commissioning	Chillmek Engineering Pvt. Ltd.
Hydro Pressure PLC System	Fluid Energy Systems Pvt. Ltd.
PLC-Based Sand Washing System (70 TPH)	CDE Asia Ltd.
Jute Mill Automation	Gloster Ltd.





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Contact Us

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