SYNERGEZE SOLUTIONS

COMPANY PROFILE 2026

Power Distribution. Power Quality. Industrial Automation.

Engineered electrical solutions from requirement study to commissioning and service support.

ELECTRICAL PANELS | SERVO STABILIZERS | VCB 11 kV / 33 kV | TRANSFORMERS | POWER QUALITY SOLUTIONS

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COMPANY OVERVIEW

Engineering Reliability Into Every Stage

Synergeze Solutions provides application-focused electrical distribution, power quality, medium-voltage switching and industrial automation solutions for industrial and commercial requirements.

Our approach combines requirement study, detailed engineering, appropriate component selection, controlled manufacturing, inspection, testing and coordinated project support. From custom-built LT panels and power-quality systems to PLC, HMI and VFD integration, each scope is developed around actual site conditions, operating duty and approved specifications.

6300 A	11 / 33 kV	100+	PAN-INDIA
Project-specific LT panel ratings	VCB supply, service and testing	Industrial and commercial project experience	Support subject to scope and location

Corporate Snapshot

Company	Corporate Details
Legal Name	Synergeze Solutions
Business Type	Proprietorship
GSTIN	06CEZPD0872C1ZH
Location	Plot No. 5, IMT Road, Near Kidzee School, Sector 93, Gurugram, Haryana
Core Focus	Electrical panels, power quality, VCB solutions, transformers and industrial automation

Vision, Mission and Values

Vision: Support industrial progress through reliable, application-focused electrical and automation solutions. Mission: Create long-term customer value through responsible engineering, controlled manufacturing, dependable products and responsive technical support. Values: Quality, integrity, safety, technical excellence, customer commitment and continuous improvement.

ELECTRICAL DISTRIBUTION

CPRI-Approved Electrical Panels up to 6300 A

Custom electrical panels engineered around the approved SLD, BOQ, load schedule, fault level, protection philosophy, metering, control logic and site conditions.

Panel Type	Primary Function	Typical Applications
LT Panels	Low-voltage power receiving, control and distribution	Plants, utilities, buildings and infrastructure
PCC Panels	Main incoming and outgoing power distribution	Transformer, DG and high-capacity distribution systems
MCC Panels	Motor starting, protection, monitoring and control	Pumps, fans, conveyors and process machinery
APFC Panels	Automatic reactive-power compensation	Motor-intensive and inductive-load facilities
AMF Panels	Automatic mains monitoring, DG start-stop and changeover	Emergency and standby power systems
Synchronization Panels	Source synchronization, sequencing and load sharing	Multiple DG and parallel-source applications

Design and Manufacturing Capabilities

- ACB, MCCB, MCB and motor-starter feeder configurations
- Copper or aluminium busbar systems with project-specific fault-duty review
- Fixed or draw-out feeder arrangements and specified form of separation
- Protection relays, metering, indication, annunciation and energy monitoring
- Electrical and mechanical interlocking, PLC logic and VFD integration
- Top or bottom cable entry, segregation, labelling, ferruling and documentation

> **Standards position**
>
> Panel engineering and assembly are aligned to IEC 61439-1 and IEC 61439-2 and applicable IS / IEC requirements. CPRI approval and compliance statements apply only to the design, rating, construction and test conditions covered by the relevant certificate or test report.

POWER QUALITY SOLUTIONS

Stable, Isolated and Application-Specific Power

Voltage correction, galvanic isolation, custom voltage ratios and harmonic-duty options are selected from measured supply conditions, connected load and the installation environment.

Solution	What It Does	Typical Configurations
Servo Voltage Stabilizer	Automatically corrects high or low input voltage within the designed range	Single/three phase; air or oil cooled; balanced or unbalanced
Isolation Transformer	Provides galvanic separation and selected voltage-ratio conversion	1:1, step-down or step-up; ultra-isolation; K-rated options
Power Conditioner	Combines servo regulation with an ultra-isolation transformer	415 V output or application-specific 200/220 V step-down output

Configuration and Engineering Scope

- Project-specific input range, output voltage and regulation tolerance
- Air-cooled, forced-air or oil-cooled construction selected from complete duty
- Copper or aluminium windings, electrostatic / multiple shielding and K-rated harmonic-duty designs where specified
- High/low cut-off, overload, short-circuit, phase protection, bypass, metering and communication as agreed
- Indoor or project-specific enclosure, ventilation, cable interface, neutral bonding and shield earthing coordination

Inputs Needed for Correct Selection

- Minimum, normal and maximum incoming voltage
- Connected kW / kVA, starting current, inrush, power factor and duty cycle
- Required output, phase arrangement, load sensitivity and harmonic information
- Ambient temperature, ventilation, indoor/outdoor location, footprint and cable entry

Important equipment boundary

A standard power conditioner does not provide stored-energy backup and does not automatically correct frequency or every harmonic condition. UPS backup, active harmonic filtering and special surge protection require separate or specifically integrated equipment.

MEDIUM-VOLTAGE SWITCHING

VCB Solutions for 11 kV and 33 kV Systems

Supply, panel integration, retrofit, servicing, testing and commissioning support for selected 12 kV and 36 kV-class vacuum circuit breaker equipment.

Complete VCB Support Scope

- New VCB selection and supply against voltage, current, fault level and control voltage
- Integration with metal-clad switchgear, relays, CTs, PTs, metering and interlocks
- Retrofit and replacement review for ratings, dimensions, busbar interface and racking compatibility
- Operating-mechanism, coil, auxiliary-contact, racking and control-circuit servicing
- Testing, functional verification, recommissioning and service documentation

Typical Technical Selection References

Company	Corporate Details
System Application	11 kV or 33 kV industrial distribution systems
Equipment Class	Selected 12 kV or 36 kV class
Rated Current	Typical references: 630 A, 1250 A or 2000 A
Construction	Fixed or draw-out; make, model and panel specific
Control Voltage	24 V DC, 110 V DC or project-specific supply
Applicable References	IEC 62271-100 and IEC 62271-200, using the specified current edition

Testing and Diagnostics

- Contact resistance measurement, insulation resistance and operating timing
- Opening, closing, close-open sequence, spring-charging motor and coil checks
- Auxiliary contacts, shutters, racking, electrical/mechanical interlocks and trip-circuit verification
- Relay functional checks and secondary-injection coordination where included

Selection qualification

Ratings, breaking duty, dimensions, operating sequence, internal-arc classification and IP rating are make/model and switchgear-design specific. Final suitability is confirmed from approved technical inputs and equipment documentation.

INDUSTRIAL AUTOMATION

PLC, HMI and VFD Solutions

ABB and Delta automation products supported by programming, configuration, control-panel integration, commissioning, retrofit and troubleshooting services.

Control Layer	Product Scope	Engineering Support
PLC & I/O	Delta PLCs and selected control hardware	I/O planning, logic development, sequencing and interlocks
HMI	Delta operator-interface products	Screen development, alarms, parameters and modifications
VFD / AC Drives	ABB and Delta drives	Selection, parameterization, communication and commissioning
Process Control	Temperature controllers, meters and selected field devices	Application selection and machine-level integration
Automation Panels	PLC, HMI, VFD and control-component assemblies	Engineering, wiring, testing and system integration

Engineering and Technical Services

- Application study, hardware selection, I/O mapping and network coordination
- PLC programming and existing-logic modification
- HMI screen development and configuration
- VFD parameter setting, motor-control integration and replacement support
- Field I/O, sensor and device integration, panel wiring and functional testing
- Commissioning, breakdown diagnosis, retrofit and machine-control upgrades

Retrofit and Upgrade Approach

1. **Review:** Existing hardware, available program, drawings and the problem statement
2. **Map:** I/O, control sequence, interlocks, communication and compatibility
3. **Select:** Replacement hardware and the agreed modification scope
4. **Integrate:** Program, test, commission and document the upgraded controls

> **Scope availability**
>
> Product supply, programming, retrofit and commissioning remain subject to hardware compatibility, available documentation, site access and the mutually agreed technical scope.

LIFECYCLE SUPPORT

Electrical and Automation Services

Structured technical support before, during and after execution - from requirement review to planned maintenance, fault diagnosis and recommissioning.

Core Service Capabilities

1. **Pre-Sales Engineering:** SLD, BOQ, load, specification and application review; rating and approved-make selection
2. **Post-Sales Support:** Installation guidance, commissioning coordination, documentation clarification and troubleshooting
3. **PLC Installation and Programming:** Logic, HMI, VFD and automation-panel integration for machine and process control
4. **Preventive Maintenance:** Planned inspection, cleaning, connection checks, operational testing and observation reporting
5. **On-Site Servicing and Testing:** Fault diagnosis, LT panel and automation-panel service, ACB/VCB checks, relay testing and recommissioning
6. **AMC and Breakdown Support:** Planned annual maintenance and corrective service support against the agreed equipment scope

Transformer and OLTC Services

- Transformer inspection and condition assessment for various makes
- OLTC inspection, cleaning, lubrication, motor-drive, limit-switch and control-circuit checks
- Transformer oil filtration and dehydration, with sampling/testing coordination where required
- Bushing, termination, gasket, leakage, insulation, alarm and trip observations
- Corrective recommendations, operational verification, recommissioning and service reporting

Service qualification: Availability is subject to equipment rating, make/model, condition, shutdown access, site assessment, spare-parts availability and the mutually agreed scope of work.

ENGINEERING TO EXECUTION

A Structured Project Delivery Process

Clear technical inputs, coordinated execution and documented verification support dependable delivery and long-term maintainability.

How We Work

1. **Requirement Study:** Understand the application, load, site conditions and operating philosophy
2. **Engineering and Design:** Develop the technical approach, drawings, specifications and interface requirements
3. **Component Selection:** Coordinate ratings and approved makes for performance, protection and availability
4. **Manufacturing and Wiring:** Execute fabrication, busbar work, assembly, power wiring and control wiring
5. **Inspection and Testing:** Verify construction, wiring, operation, protection, interlocks and documentation
6. **Dispatch and Installation:** Coordinate delivery, site readiness and installation responsibility
7. **Commissioning and Support:** Assist start-up, validation, handover, troubleshooting and after-sales needs

Essential Project Inputs

- Single-line diagram, BOQ, load schedule and feeder details
- System voltage, transformer / DG capacity, fault level and protection philosophy
- Motor details, starting method, I/O list, control sequence and automation requirement
- Preferred component makes, form of separation, IP requirement and cable-entry arrangement
- Project location, ambient conditions, installation scope and commissioning responsibility

Typical Project Deliverables

- Approved drawings and component schedules as agreed
- Panel labels, ferrules, wiring references and test records
- Operational checks, observation reports and corrective recommendations
- Installation, commissioning and basic user handover where included

QUALITY AND COMPLIANCE

Quality Built Into Every Stage

Inspection and test activities are selected against the panel design, approved drawings, equipment condition and mutually agreed scope.

Quality Assurance Checks

- Incoming material, component make and rating verification
- Drawing, panel layout, busbar, clearance and component-position checks
- Power and control wiring, termination, ferruling and continuity verification
- Insulation resistance and applicable dielectric / electrical checks
- Functional operation, metering, indication, annunciation and interlock verification
- Protection setting and trip-function verification where included
- Visual and dimensional inspection before dispatch
- Drawings, test records and service reports as agreed

Standards and Credential Framework

Reference	Position
IEC 61439-1 / 61439-2	Low-voltage switchgear and controlgear assembly design and construction considerations
IEC 62271-100 / 62271-200	VCB and metal-enclosed switchgear references for selected MV applications
CPRI Approval / Test Documentation	Applicable only to the tested panel design, construction, rating and conditions covered by the relevant document
Selected Test References	Short-time withstand references up to 70 kA for 1 second and enclosure protection references up to IP55 / IP65, subject to exact certificate scope
Applicable IS / IEC Requirements	Considered according to the approved technical specification, equipment documentation and current project edition

Compliance qualification

Final compliance is project specific. The accepted technical offer, approved drawings, selected equipment datasheets and the applicable certificate / test report remain the controlling documents.

APPLICATIONS

Solutions for Diverse Industrial Requirements

Product configuration and service scope are developed around each industry's load profile, process needs, operating environment and reliability expectations.

Industries Served

Automobile	**Pharmaceutical**	**Bottling**
Packaging	**Rubber and Plastic**	**Textile**
Food Processing	**Chemical**	**Commercial Buildings**
Hospitals	**Infrastructure**	**Industrial Machine Builders**

Why Synergeze Solutions

- Application-oriented engineering around the real operating requirement
- Custom-built configurations aligned with approved technical specifications
- Integrated electrical distribution, power quality and automation expertise
- Controlled manufacturing, wiring, inspection and testing workflow
- Clear coordination across commercial, engineering, manufacturing and site activities
- Responsive technical support for commissioning, retrofit, maintenance and breakdown needs

Component and Product Makes

Component selection can be coordinated around approved makes including Lauritz Knudsen (L&T), Schneider Electric, ABB, Socomec, Legrand, HPL, Elmeasure and Delta, subject to the project specification, compatibility and availability. Brand references do not imply universal dealership or authorization.

> **Our promise**
>
> Engineering clarity before supply. Controlled execution during manufacturing. Dependable support after commissioning.

DISCUSS YOUR REQUIREMENT

Let's Engineer the Right Solution

Share the available project, product or service details. Our engineering and commercial team will review the information and coordinate the next technical step.

What to Share for a Faster Technical Review

1. **Requirement:** Equipment, panel, product, automation or service scope
2. **Ratings:** Capacity, voltage, current, quantity, make preference or existing make/model
3. **Technical Inputs:** BOQ, SLD, load schedule, drawings, I/O list or control sequence where available
4. **Site Details:** Project location, installation environment, observed problem and commissioning requirement

Contact Synergeze Solutions

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