



ELECTRAEDGE
EXPERT SOLUTION & EXCELLENT SERVICES



ElectraEdge Engineering Solutions

COMPANY PROFILE

Expert Solution & Excellent Services



+ 88 01349 - 346317



Email

info.electraedge@gmail.com
info@electraedgebd.com



Website

www.electraedgebd.com

ABOUT COMPANY



ElectraEdge Engineering Solutions, established in 2024, is a multi-functional engineering company specializing in electrical panel manufacturing, trading, electrical and mechanical works, solar energy solutions, industrial automation, and comprehensive EPC services. We are driven by a strong commitment to innovation, quality, and reliability, supported by advanced technology and a skilled workforce.

Our services cover design, manufacturing, supply, installation, testing, and commissioning of electrical systems, mechanical solutions, and automation processes. We focus on improving operational efficiency, safety, and system reliability for residential, commercial, and industrial projects.

At ElectraEdge Engineering Solutions, we strongly believe in developing our people through continuous improvement, technical excellence, and professional growth. Our experienced team is dedicated to delivering projects on time and within budget while providing innovative and cost-effective solutions aligned with client needs.

As we continue to grow, ElectraEdge Engineering Solutions remains committed to building a sustainable, efficient, and technologically advanced future, creating long-term value for clients and contributing positively to society.





MISSION

At ElectraEdge Engineering Solutions, our mission is to deliver innovative, reliable, and customized engineering solutions across Industrial Automation, Building Management Systems (BMS), Solar Energy, Busbar Trunking, and Erection & Commissioning. We are committed to enhancing operational efficiency, sustainability, and safety for our clients, while upholding the highest standards of quality, integrity, and technical excellence.

Our Commitment

At ElectraEdge Engineering Solutions, we are committed to delivering innovative and reliable engineering solutions through advanced technology and a skilled team. We maintain high standards of quality, safety, sustainability, and ethical practices to ensure efficient and client-focused services.

We build long-term partnerships by providing customized solutions that support industrial growth, community well-being, and a technology-driven, responsible, and excellence-focused future.

"Expert Solution & Excellent Services"



VISSION

Our vision is to be a leading force in engineering and technological innovation, recognized for driving sustainable growth and delivering smart, energy-efficient solutions. We strive to empower industries by transforming infrastructure and operations through modern engineering solutions and unmatched expertise, becoming a trusted partner for our clients' long-term success.

COMPANY INFORMATION



Company Name	Engineering Solutions
Motto	Expert Solution & Excellent Services
Business Nature	Electrical Engineering and Power Solutions.
Trade License No.	TRAD/DNCC/03974/2024
Electrical Contractor License No.	S20210005142 (Class-ABC, Under ELB, Bangladesh)
Business Policy	Committed to Quality, Safety, and Reliable Electrical Solutions.
Business Philosophy	Professional Service, Sustainable Solutions, and Long-term Partnerships
Business Function	First-class contractor and comprehensive engineering service provider
Dynamic Teams	- Management Team
	- Technical Team
	- R&D Team, Project Execution Team, Quality & Safety Team
	- Business Development Team
	- Product Sourcing & Supply Team
Total Team Members	25 (Twenty Five)
Areas of Expertise	- Electrical Engineering, Mechanical Engineering, Solar Energy, Industrial Automation, Building Management System, Quality & Safety , Project Execution Team
Core Services	- Industrial Automation, Turnkey Project, Electro-Mechanical, IPS, CCTV
	- Building Management Systems (BMS), Electrical Engineering,
	- Solar Energy Systems (EPC), Sub-Station Equipment & Generator Supply
	- Busbar Trunking Systems, Consultancy , Cable Tray, Maintenance,
	- Erection, Testing & Commissioning, Business Development Team
Corporate Office	- Plot-33, Holding-11, Milk Vita Road, Mirpur-7, Pallabi, Dhaka-1216, Bangladesh
Company Hotline	+88 01349-346317
Company E-mail	info@electraedgebd.com, info.electraedge@gmail.com
Web Address	www.electraedgebd.com

Engineering Solutions:

- » Electrical Turnkey Solutions
- » Sub-Station (MV & LV)
- » HT, LT, PFI, MDB, SDB Panel
- » PCC & MCC Panels & BBT
- » PLC / SCADA Panel
- » VFD / Starter Panel & Cable Tray
- » Residential & Industrial Lighting
- » Electro Mechanical Fabrication
- » Generator Control Panel
- » Busbar Trunking System
- » Earthing & LPS System
- » Annual Maintenance Contract & Electro- Mechanical Fabrication
- » Annual Maintenance Contract & Electro- Mechanical Fabrication

Integrated Automation:

- » Industrial Process Automation
- » PLC, HMI & SCADA Solution
- » ETP/WTP Automation
- » Energy Management System
- » Centralized Reporting System
- » Oil Refinery Plant Automation
- » ETP/WTP Automation
- » Silo Automation
- » Boiler Controls System
- » VFD Solutions
- » Sensor & Field Instrumentation

Building Management System (BMS):

- » HVAC Control & Monitoring
- » Lighting Control Systems
- » Electrical Controls & Monitoring Systems
- » Security & Surveillance Systems
- » Fire Alarm & Detection System
- » Plumbing & Water Management
- » Elevator Control & Monitoring
- » Hotel & Smart Building Automation
- » BMS Operator Workstation



SOLUTIONS WE OFFER

Erection & Commissioning

- » Sub-Station Erection & Commissioning
- » Solar Power System
- » Electrical Panel Installation
- » Cable Laying Termination & Glanding
- » Busbar Trunking (BBT) & Cable Trays
- » Plant Earthing & Equipment Earthing (as Per Standard)
- » Control System & Instrumentation
- » Instrumentation / Sensor
- » Piping (SC, SS, GRP, P91, P22, HDBE)
- » Generator, Motor & Pump Erection
- » Electrification of Plant & Machinery

Testing

- » Earth Resistance Testing
- » Thermographic inspection
- » Insulation Resistance (IR) Testing
- » Hi-Pot Test & Thermo-graphic Inspection, Commissioning Test Report



Solar Energy Solutions

- » Industrial Roof Top Solar Solutions (EPC)
- » On-grid , Off-grid Hybrid Solar Systems
- » Solar Irrigation System
- » Solar Home System (Rural Areas)
- » Solar Street Light Projects
- » Installation & Commissioning
- » Operation & Maintenance (O&M)



Industrial Drives & Automation

-VFD: Energy-efficient motor speed control to improve performance and reduce operating costs. PLC & HMI: Automated, safe, and precise industrial process control solutions. SCADA: Centralized monitoring and control for plants and utilities. Industrial Automation: Smart automation solutions for manufacturing and process industries.

PLC & HMI

Integration of Programmable Logic Controllers (PLC) and Human-Machine Interfaces (HMI) for automated control of industrial processes, improving productivity, precision, and safety.



Electrical Power & Distribution Systems

HT, LT, PFI, MDB & SDB Panels: Complete power distribution and power factor correction solutions. PCC & MCC Panels: Power and motor control solutions for industrial use. Switchgear: High-quality protection, control, and monitoring solutions. Generator Control Panels: Intelligent generator control and synchronization systems. Sub-Station Systems (MV & LV): End-to-end substation solutions including installation and commissioning.



Busbar, Cable & Earthing Solutions

Busbar Trunking Systems: Compact and efficient power distribution for industrial and commercial facilities. Cable Trunking & Cable Trays: Safe routing and protection of power and control cables. Earthing & Grounding: Equipment and plant earthing as per international standards. Lightning Protection (LPS): Reliable protection for buildings and critical infrastructure.



Lightning Protection System (LPS)

Comprehensive lightning protection systems to safeguard buildings and critical equipment from lightning strikes, ensuring safety and continuity in operations.

SOLUTIONS WE OFFER



Busbar Trunking System

Efficient busbar trunking solutions for power distribution in large industrial complexes, providing compact and flexible electrical connectivity.



Cable Trunking

High-quality cable trunking solutions for the secure routing and protection of electrical cables.



Building Systems & Utilities

Energy-efficient heating, ventilation, and air-conditioning solutions. Building Management System (BMS): Integrated monitoring and control of building utilities. Fire Protection & Detection: Reliable fire alarm, detection, and suppression systems. CCTV & Surveillance: Advanced security and monitoring solutions for facilities.



HVAC System

Engineering and installation of Heating, Ventilation, and Air Conditioning (HVAC) systems for enhanced climate control and energy efficiency in buildings and industrial spaces.



Fire Protection & Detection System

Fire detection and suppression systems to protect life, assets, and infrastructure from fire hazards, ensuring early detection and rapid response.

SOLUTIONS WE OFFER



DESIGN & CONSULTANCY SOLUTIONS



Solar & Renewable Energy Solutions

- Solar Energy Systems (EPC): On-grid, off-grid, and hybrid solar power solutions.
- Industrial Rooftop Solar Projects: Design, supply, installation, and commissioning.
- Solar Street Lighting & Irrigation Systems: Sustainable energy solutions for urban and rural applications.
- Operation & Maintenance (O&M): Long-term performance and reliability support.



Electro-Mechanical & Industrial Services

- Electro-Mechanical Fabrication: Custom fabrication for electrical and mechanical systems.
- Erection, Testing & Commissioning: Electrical panels, sub-stations, generators, motors, pumps, and plant machinery.
- Instrumentation & Sensors: Supply, installation, and calibration of field instruments.
- Piping Works: CS, SS, GRP, P91, P22, HDPE piping solutions.



Telecom & Low Current Infrastructure

- Telecom Infrastructure Solutions: Optical fiber network development, LAN & WAN design, OFC laying, splicing, and OTDR testing.
- Low Current Systems: Fire alarm, access control, data networking, and communication systems.



Testing, Consultancy & Support

- Electrical Testing & Inspection: IR test, earth resistance test, thermographic inspection, Hi-Pot testing, and power quality analysis.
- Engineering Consultancy: Civil, mechanical, and electrical consultancy services.
- Turnkey & EPC Project Execution: End-to-end project delivery.
- Technical Logistics & After-Sales Support: Reliable service, maintenance, and AMC services.



Additional Services

- EPC & Turnkey Project Execution
- Technical Consultancy (Civil, Mechanical & Electrical)
- Project Management & Supervision
- Technical Logistics & Supply Support
- Maintenance & After-Sales Support

SOLUTIONS WE OFFER



DESIGN & CONSULTANCY SOLUTIONS



Electrical Design & Engineering

- Electrical Detailing & System Design,- Sub-Station Layout & Power Distribution Design,- Load Calculation & System Sizing,- Circuit Design & Cable Routing
- Compliance with International & Local Standards



Single Line & System Diagrams

- Single Line Diagram (SLD) Preparation
- Power Distribution Schematics
- Control & Instrumentation Diagrams
- Panel GA & Wiring Diagrams



Technical Documentation

- Technical Specifications Preparation
- Bill of Materials (BOM) & Cost Estimation
- Tender & Bid Documentation Support
- Method Statements & Design Reports



Cable Engineering

- Cable Sizing & Selection
- Cable Routing & Tray Layout Design
- Voltage Drop & Short Circuit Calculations
- Compliance with Electrical Safety Standards



Earthing & Lightning Design

- Earthing System Design (Plant & Equipment)
- Lightning Protection System (LPS) Design
- Ground Resistance Calculation & Risk Assessment

Energy & Safety Consultancy

- Energy Audit & Efficiency Analysis
- Power Quality Study
- Electrical Safety Assessment
- Fire Protection System Design Coordination

LIST OF SOME OF OUR CLIENTS





+ 880 1349 -346317



Email

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Address

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