



SYNAPSE
ENGINEERING & SUPPLY



COMPANY PROFILE

Connecting Technology. Powering Industry.

+8801886113236

GET IN TOUCH

synapse-engineering.com





Table of Contents

»»» Introduction	—————→	Page 03
»»» Company Overview	—————→	Page 04
»»» Our Services	—————→	Page 05
»»» Products & Solutions	—————→	Page 06
»»» Services We Offer	—————→	Page 07
»»» Industries We Serve	—————→	Page 08
»»» Our Projects & Technical Experience	—————→	Page 09
»»» Brands we Work With	—————→	Page 11
»»» Why Choose Us	—————→	Page 12
»»» Our Work Process	—————→	Page 13
»»» Future Goals & Business Vision	—————→	Page 14
»»» Contact Us	—————→	Page 15





Introduction

Synapse Engineering & Supply is an engineering and industrial sourcing company in Bangladesh, delivering automation systems, solar solutions, and globally sourced machinery and spare parts. We combine technical expertise with international supply networks to provide reliable, cost-effective solutions for modern industries.



Md Sohel Rana
CEO & MANAGING DIRECTOR

08+

Years of operations

60+

Zilla Services

200+

Happy clients

50+

Employees

“We aim to be a trusted leader in automation, power, and industrial supply solutions in Bangladesh.





Company Overview

About Us

Synapse Engineering & Supply is a Bangladesh-based engineering and global sourcing company specializing in industrial automation, solar power solutions, and the supply of high-quality machinery and spare parts from international markets.

Our Mission

Our mission is to provide high-quality engineering solutions and industrial products by combining technical expertise with a strong global sourcing network. We are committed to delivering reliable automation systems, efficient solar power solutions, and cost-effective industrial supplies that enhance productivity, ensure operational excellence, and create long-term value for our clients.

Our Vision

To become a leading and most trusted engineering and industrial supply company in Bangladesh, recognized for delivering innovative automation, sustainable energy solutions, and reliable global sourcing that empower industries to grow efficiently and competitively.



Our Services



Our Core Values

We are committed to delivering dependable products and solutions that our clients can trust. We believe in honest business practices, transparency, and long-term relationships built on trust and mutual respect.



Reliability



Technical Excellence



Innovation



Customer Commitment



Integrity



Global Sourcing Expertise



Our Core Business Areas

At Synapse Engineering & Supply, we operate across three key sectors, delivering integrated solutions that support modern industrial growth and efficiency.



Solar & Power Solutions



Industrial Automation



Global Industrial Supply & Import



Products & Solutions

Automation Products

We supply high-performance automation components and systems for industrial control and process optimization



- ✓ Programmable Logic Controllers (PLC)
- ✓ Human Machine Interface (HMI) Panels
- ✓ Variable Frequency Drives (VFD)
- ✓ Servo Motors & Motion Control Systems
- ✓ Industrial Sensors & Instrumentation
- ✓ SCADA & Monitoring Systems

Solar & Power Products

We provide complete solar and power solutions for energy efficiency and reliable backup systems.



- ✓ Solar Panels (Mono & Poly)
- ✓ On-grid, Off-grid & Hybrid Inverters
- ✓ Lithium & Lead-Acid Battery Systems
- ✓ Charge Controllers
- ✓ Industrial UPS Systems
- ✓ Transformers & Power Distribution Equipment



Industrial Spare Parts & Components

We provide complete high-performance Industrial Spare Parts & Components for industrial control and process optimization

- ✓ Electric Motors & Pumps
- ✓ Bearings, Belts & Mechanical Parts
- ✓ Valves & Pneumatic Components
- ✓ Electrical Components (MCB, MCCB, Relays)
- ✓ Textile Machinery Spare Parts
- ✓ Hydraulic Components
- ✓ Customized Industrial Equipment





Services We Offer

Industrial Automation Solutions

We ensure reliable supply of industrial components and spare parts to support continuous operations.



- ✓ PLC, HMI & VFD Programming and Integration
- ✓ Control Panel Design & Installation
- ✓ SCADA & Industrial Monitoring Systems
- ✓ Factory Automation Upgrades
- ✓ Troubleshooting & Technical Support

Solar & Power Products

We deliver efficient and sustainable energy solutions for industrial and commercial applications.



- ✓ Solar System Design & Supply
- ✓ On-grid, Off-grid & Hybrid System Support
- ✓ Power Backup Solutions (UPS, Generators)
- ✓ Electrical Distribution & Power Management
- ✓ Installation Support & System Optimization

Industrial Supply & Spare Parts

We ensure reliable supply of industrial components and spare parts to support continuous operations.

- ✓ Textile & Industrial Machinery Spare Parts
- ✓ Electrical & Mechanical Components
- ✓ Urgent Supply Support for Critical Operations
- ✓ Supply of Motors, Pumps, Sensors & Components

Global Sourcing & Import Services

We manage complete sourcing and import processes for industrial equipment and machinery from global markets.

- ✓ Supplier Identification & Verification
- ✓ Product Sourcing from China, Germany & Worldwide
- ✓ Price Negotiation & Procurement
- ✓ Air & Sea Freight Coordination
- ✓ Customs Clearance & Delivery Support

After-Sales Support

We believe in long-term partnerships by providing continuous technical and service support.

- ✓ Technical Consultation
- ✓ Installation Guidance
- ✓ Maintenance Support
- ✓ Troubleshooting Assistance





Industries We Serve

Garments & Textile Industry

We provide automation systems, motors, sensors, and spare parts to support high-speed production and minimize downtime in textile and garment manufacturing.

Construction & Engineering

We supply machinery, power equipment, and industrial components required for construction projects and infrastructure development.

Pharmaceutical Industry

We support precision-driven production with automation systems and components that meet strict quality and operational standards.



Food & Beverage Industry

Our solutions help ensure safe, efficient, and continuous production through automation, control systems, and processing equipment support.

Steel & Cement Industry

We deliver heavy-duty automation, power systems, and industrial components designed to operate in demanding environments with high reliability.

Power & Energy Sector

We provide solar solutions, transformers, switchgear, and control systems to support power generation, distribution, and energy efficiency.





Our Projects & Technical Experience

01



Tablet Coating Machine with Room HVAC Control

Client: Synovia Pharma PLC.

Scope of Work:

- CFR 21 Part 11, Audit trail, Batch report
- PLC (Siemens)
- SCADA (Siemens)
- VFD (Siemens)
- Modbus
- Temperature PID
- Pneumatic actuators
- Dehumidifier control
- AHU and FCU control

02



Rajuk Purbachal Water Supply Project

Client: SUPCON Technology Co. Ltd.

Scope of Work:

- MQTT protocol
- Modbus
- GSM communication
- Electric actuators
- Instrument calibration
- RTU (Bivocom)
- PLC (Siemens)
- HMI (Siemens)
- SCADA (SUPCON)
- VFD (Grundfos)

03



Smart Sorting and Weighing System

Client: Steadfast Courier

Scope of Work:

- TCP/IP protocol
- Barcode scanner
- Configurable zone sorting
- Pneumatic
- PLC (Siemens)
- HMI (Siemens)
- VFD (Mitsubishi)

04



Bakery Oven Automation

Client: Asgar Ali Hospital

Scope of Work:

- PLC (Delta)
- HMI (Delta)
- VFD (HNC)
- Full system wiring

05



Industrial Washing Machine Automation

Client: The Ocean Paradise

Scope of Work:

- PLC (Delta)
- HMI (Delta)
- VFD (Sinee)
- Full system wiring





Our Projects & Technical Experience



06 8 Head Screen Printing Machine

Client: Toads Printing Ltd.

Scope of Work:

- PLC (Virgo)
- HMI (Weinview)
- Pneumatic
- Full system wiring



07 Paddle Wheel Automation for Spirulina Raceway

Client: Gazipur Agricultural University (GAU)

Scope of Work:

- RLC based controls of a gear motor



08 Vacuum Pump Control

Client: Synovia Pharma PLC.

Scope of Work:

- PLC (Delta)
- HMI (Delta)
- Modbus
- Negative pressure control



09 Solar Tracking System

Client: Ulterior Engineering

Scope of Work:

- Servo (Delta)
- PLC (Delta)
- 4-axis motion control





Our Solar Projects & Technical Experience

01 58kW Hybrid Solar Project

Client:
Water Garden Resort & Spa

Location:
Tangail, Dhaka



02 5kW Off-grid Solar Project

Client:
Vai-Vai Poultry Farm

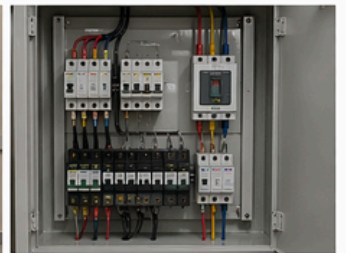
Location:
Dinajpur



03 10kW Hybrid Solar Project

Client:
Basher

Location:
Tejgaon, Dhaka





Brands We Work With



Why Choose Us

Direct Global Sourcing



We source products directly from trusted manufacturers in China, Germany, and other leading industrial markets, ensuring authenticity, quality, and competitive pricing.

Competitive & Cost-Effective Solutions



Our strong supplier network allows us to offer high-quality products at competitive prices, helping clients reduce costs without compromising performance.

Technical Expertise



Our engineering knowledge enables us to understand complex industrial requirements and provide practical, solution-oriented support for automation, power, and machinery needs.

Reliable Delivery & Logistics



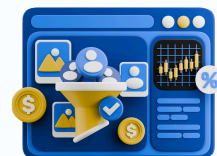
We ensure timely delivery through efficient logistics management, including air and sea freight coordination and smooth customs clearance.

End-to-End Solutions



From sourcing to installation support, we provide complete solutions under one roof—saving time and simplifying the process for our clients.

After-Sales Support



We build long-term relationships by offering continuous technical assistance, troubleshooting, and service support after delivery.



Our Work Process



Requirement Analysis

Step 1

We begin by understanding the client's technical requirements, operational challenges, and project objectives. Our team evaluates specifications and identifies the most suitable solution.



Product Selection & Global Sourcing

Step 2

Based on the requirements, we select the appropriate products or source them from trusted international manufacturers to ensure quality and reliability.



Quotation & Approval

Step 3

We provide a detailed quotation including technical specifications, pricing, and delivery timeline. After client approval, we proceed with procurement.



Procurement & Delivery

Step 4

We manage the procurement process, coordinate logistics, and ensure timely delivery through air or sea freight depending on urgency and project needs.



Installation & Technical Support

Step 3

Where required, we provide installation guidance, technical consultation, and support to ensure proper system integration and operation.



After-Sales Support

Step 4

We maintain long-term relationships with clients by offering ongoing support, troubleshooting, and maintenance assistance.





Future Goals & Business Vision

1 Expand Industrial Automation Solutions

We aim to strengthen our automation portfolio by offering advanced control systems, smart factory solutions, and modern industrial technologies to help industries improve productivity and efficiency.

2 Grow Solar & Energy Solutions

We plan to expand our solar and power solutions to support sustainable energy adoption in industrial, commercial, and infrastructure sectors, contributing to energy efficiency and long-term operational stability.

3 Strengthen Global Sourcing Network

We continue to build strong relationships with international manufacturers and suppliers to ensure access to high-quality machinery, spare parts, and industrial equipment at competitive prices.

4 Expand Industry Coverage

We aim to serve more industries including manufacturing, infrastructure, utilities, and large-scale industrial projects across Bangladesh.

5 Build Long-Term Partnerships

Our focus is to establish long-term partnerships with clients by delivering reliable products, technical expertise, and continuous support.

Our Commitment

Synapse Engineering & Supply is dedicated to delivering innovative engineering solutions and dependable industrial supply services that contribute to the growth and development of industries in Bangladesh.





Team Expertise

Our team is committed to delivering dependable engineering solutions, ensuring quality, and building long-term partnerships with our clients.



Md Sohel Rana
CEO and Managing Director



Eng Fahim Hossain Rafi
Automation, BMS & Solar Engineer



Md Ahsan Habib
Head Of Operation



Eng Md Faysal Ahmed
HVAC, Automation & Solar Engineer



Md Shahariar Hossen
Business Development Executive



Yousuf Deowan Nizum
Solar & Automation Engineer



Md Mahabub Hasan
Solar & Automation Engineer



Md Rifat Hossain
Automation Engineer





SYNAPSE
ENGINEERING & SUPPLY

Contact Us

 Website

synapse-engineering.com

 Phone

+8801886113236

 HQ address

104 House, Park Rd, Mohakhali DOHS, Dhaka

 E-mail

info.synapseeng@gmail.com

 Social Media

Synapse Engineering & Supply

