ARMABEL GLOBAL LTD.

Innovate. Integrate. Sustain.

COMPANY PROFILE

2026 Edition

Your Partner in Engineering a Greener, More Profitable Future

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Executive Summary

Armabel Global Ltd. is the premier engineering and sustainability consultancy at the forefront of Bangladesh's green industrial revolution. Our story began under the name Raaida Engineering - a proprietorship founded and led by our core technical team, which built a strong reputation delivering investment-grade energy audits, decarbonization programs, and MEP design projects for leading Bangladeshi corporations and European supply chains.

As our client base grew, clients increasingly required a formally incorporated limited company as a counterpart for high-value engagements. In response, we re-registered in July 2025 as Armabel Global Limited - a private limited company that carries forward the complete legacy, team, expertise, and project history of Raaida Engineering under a credible and scalable corporate framework.

What We Deliver

- **Reduced Operational Costs**
  Energy optimization that directly improves your bottom line.
- **Minimized Environmental Impact**
  Measurable carbon footprint reduction strategies.
- **Regulatory Compliance**
  Alignment with national and international standards.
- **Sustainable Growth**
  New opportunities in the global green economy.

OUR MISSION

To lead Bangladesh's industrial transformation towards sustainability by providing world-class engineering solutions that harmonize profitability with environmental stewardship, enabling businesses to thrive in the global green economy.

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The Armabel Advantage

Six pillars that position us as Bangladesh's trusted engineering and sustainability partner - the same pillars highlighted across our website's Advantages section.

Measurable Impact

Investment-grade audits and actionable strategies that translate directly into reduced energy costs, lower carbon emissions, and enhanced profitability.

Unmatched Expertise

SREDA-certified auditors and seasoned engineers with deep national and international experience across multiple industrial sectors.

Holistic Solutions

From feasibility studies and MEP design to turnkey solar EPC and safety assessments - a seamless, comprehensive solution under one roof.

Trusted by Leaders

Proven track record executing high-stakes projects for leading Bangladeshi corporations and European brand supply chains.

Future-Proof Your Business

Stay ahead of evolving standards - from Bangladesh Bank's Green Transformation Fund to the EU's CSRD and global ESG requirements.

Partnership Approach

We work as an extension of your team, ensuring knowledge transfer and capacity building for long-term organizational success.

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Our Services

A full-spectrum service portfolio covering the entire green engineering value chain - from regulatory energy audits to turnkey solar EPC and MEP design.

1. Energy, Sustainability & Environmental Services

» Investment-Grade Energy Audits

Comprehensive energy assessments following ISO 50001 and SREDA guidelines, identifying cost-saving opportunities with detailed ROI analysis and implementation roadmaps.

» Decarbonization & GHG Emission Reduction

Strategic carbon footprint assessments, Science-Based Targets (SBT) development, and emission reduction strategies aligned with global climate commitments.

» Green Financing Assessments

Expert evaluation and documentation for Bangladesh Bank Green Transformation Fund (BB GTF), SREUP, and international climate finance mechanisms.

» Corporate Sustainability Management

Comprehensive sustainability strategies, ESG reporting frameworks, and supply chain sustainability programs meeting international buyer requirements.

2. Solar EPC - Turnkey Solar Solutions

- Rooftop solar PV systems
- Grid-tied and hybrid systems
- Feasibility studies
- Contractor oversight
- Utility-scale solar projects
- Battery energy storage
- Technical due diligence
- Performance monitoring

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Services (continued)

3. MEP Design Services

Electrical Systems

- Power distribution
- Lighting design
- Earthing & lightning protection
- Energy management systems

Mechanical Systems

- HVAC system design
- Ventilation systems
- Compressed air systems
- Industrial cooling

Plumbing & Fire

- Water supply systems
- Drainage & sewerage
- Fire detection & suppression
- Fire suppression systems

Project Support

- BoQ preparation
- Tender documentation
- Construction supervision
- Commissioning support

4. Safety & Structural Consultancy

Safety Services

- Electrical Safety
- HIRA
- Fire Safety Audits
- Risk Assessment

Structural

- Load Analysis
- Structural Integrity
- Accord/RSC Standards

Compliance & Training

- BNBC Compliance
- International Codes
- National Standards
- Capacity Building

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Project Portfolio - Track Record

Armabel Global Ltd. carries forward the complete project legacy of Raaida Engineering. Projects executed prior to July 2025 were delivered under the Raaida Engineering banner by the same expert team.

60+	20+	50+	50+
Energy Audits	MEP Design Projects	Green Financing	Safety Assessments

Recent Energy Audit Projects (2024 - 2026)

Client	Objective	Date
Under Armabel Global Ltd.		
Wash Point Limited	Energy Audit (Equipment Financing)	**Jan 2026**
Basundhara City Shopping Complex	SREDA DC Energy Audit	**Feb 2026**
KAFCO (Fertilizer)	SREDA DC Compliance Energy Audit	**Ongoing**
Jalal Ahmed Spinning Mills	SREDA DC Compliance Energy Audit	**Ongoing**
Shajinaz Eximpack Ltd.	KGDCL Compliance Energy Audit	**Aug 2025**
S M Plastic / Yunusco T&A	KGDCL Compliance Energy Audit	**Jul 2025**
Brothers Fashion Ltd.	Energy Audit (Equipment Financing)	**Jun 2025**
Sterling Apparels Ltd.	Energy Audit for Boiler Plant	**May 2025**
Under Raaida Engineering (now Armabel Global)		
Noman Terry Towel Mills	Detailed Energy Audit	**Jul 2024**
AFCCL (Fertilizer)	Detailed Energy Audit (SREDA & GIZ)	**May 2024**
South East Textiles (Pvt.)	Detailed Energy Audit	**May 2024**
DC Office, Rangpur	Detailed Energy Audit	**Mar 2024**
Asia Knit Composite (2 plants)	Energy Audit (Solar Financing)	**May 2024**
Echotex Ltd.	Energy Audit & Solar Financing	**Mar 2024**
Pacific Blue (Jeans Wear)	Energy Audit (Equipment Financing)	**Oct 2023**
Ananta Jeanswear / Garments	Energy Audit & Solar Financing	**Jan 2024**

Plus 30+ additional energy audits for factory groups across Dhaka, Gazipur, and Savar - conducted for POTS GmbH (Germany), 3R Environmental, and other international partners (2020-2024).

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Major MEP & Infrastructure Projects

Laldia Container Terminal - Electrical & IT Systems — Jan 2026 - Ongoing

CPA / APM Terminals | Employer: EQMS Consulting Ltd. (sub-contractor of CGR, UK)

- Leading electrical and IT system design as Lead Designer (Bangladesh).
- Coordinating with international design teams (CGR, UK).
- Design review, QA, and technical specification preparation.

Chittagong Bay Terminal — Nov 2022 - Jul 2023

Chittagong Port Authority (CPA)

- Design of 132 kV / 11 kV substation and full electrical distribution.
- Port equipment power distribution, lighting, lightning protection & earthing.
- Cost estimation and complete tender documentation.

Sirajganj 68 MW Solar Power Plant — May 2024 - Sep 2024

BCRECL | Employer: ZTENCO Limited

- Electrical design review and PV system approval.
- Site inspection, quality assurance and safety compliance.
- Power handover coordination with PGCB.

A R Jeans Producer Ltd. - LEED Platinum Factory — 2017 - 2018

Fashion Globe Group, Savar | LEED Platinum | ACCORD Approved

- Complete electrical design for Bangladesh's first LEED Platinum-certified garment factory.

Additional MEP Projects

- MEP Design - Padma Oil Company Limited (2017 - 2018)
- MEP Design - AB Bank Limited, Gulshan (2020)
- MEP Design - Delhi Public Schools DPS-3 (2018 - 2019)
- MEP Design - ULAB Campus Block D (2018 - 2019)

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Decarbonization & Sustainability

Strengthening Regulatory Framework for EE&C

Jul 2024 - Present > IDCOL & SREDA | Employer: Deloitte Touche Tohmatsu India LLP | Role: Technical Expert

Supporting SREDA in developing regulatory implementation frameworks for energy efficiency, advising on impact indicators, and strengthening enforcement of energy audit regulations.

Scalezero - OTTO Group Supply Chain Decarbonization

May 2023 - Oct 2024 > Part of the Solution GmbH, Germany | Role: Technical Lead - Bangladesh

Led technical team for energy and emission assessments across factories in Dhaka, Gazipur, Savar, and Narayanganj. Trained factory-level energy management teams and prepared investment-grade reports.

Green Supplier Program - KiK Supply Chain

Nov 2021 - Oct 2022 > Part of the Solution GmbH & Eclectic Ltd. | Role: Technical Lead - BD

Led industrial energy/emission assessment teams, trained supply chain partners, and supported implementation of efficiency measures across the textile supply chain.

Featured Case Studies

LEED Platinum Factory

Bangladesh's first LEED Platinum-certified garment factory.

- 40% energy savings
- 50% water reduction
- Enhanced worker wellbeing

European Supply Chain

Carbon footprint assessment for 15+ supplier factories.

- 25% avg. emission reduction
- Improved supplier ratings
- Enhanced market access

National Port Infrastructure

Complete MEP/electrical design for critical port infrastructure.

- 132 kV substation design
- International coordination
- Full tender documentation

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Notable Clients

Trusted by leading corporations, government bodies, and international brand supply chains across Bangladesh and Europe.

Textile & RMG

- Ananta Group
- DBL Group
- Echotex Ltd.
- Team Group
- Fashion Globe Group
- Sterling Apparels
- Brothers Fashion
- Pacific Blue
- Newtex Knit
- Asia Knit Composite

Industrial & Commercial

- Basundhara City
- Wash Point Limited
- Shajinaz Eximpack
- S M Plastic Industries
- Padma Oil Company
- Kazi Polymer

Education & Finance

- ULAB
- Delhi Public Schools
- AB Bank Limited

International Brands

- OTTO Group (Germany)
- KiK Supply Chains
- European Buyer Programs

Government & Institutions

- Chittagong Port Authority
- BEZA
- DC Office Rangpur
- BTCL
- Civil Aviation Authority
- Military Engineer Services

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Our Team

Certified auditors and engineers combining deep local industry knowledge with internationally trained expertise - delivering measurable results across energy, sustainability, and industrial engineering.

Rubel Mahmud

Managing Director & Lead Energy Auditor

Education: M.Sc. EEE, BUET (2023) · B.Sc. EEE, AIUB (2014)

Certifications: SREDA Certified Energy Auditor · Member, IEB · Certified Electrical Supervisor A/B/C

Founder of Raaida Engineering (now Armabel Global) with a 12+ year track record. Has personally led or supervised 40+ investment-grade energy audits across fertilizer, textile, garment, chemical, plastic, and commercial sectors. Technical Lead - Bangladesh for the OTTO Group Scalezero decarbonization programme and KiK Green Supplier Programme. Currently Lead Designer for the Laldia Container Terminal project and Technical Expert supporting SREDA/IDCOL with Deloitte. Published researcher in hybrid AC-DC microgrid systems.

Toufiq Rahman

Senior Energy Consultant & Policy Expert

Education: B.Sc. Mechanical Eng., BUET · M.Sc. Management of Technology, BUET (ongoing)

Certifications: SREDA Certified Energy Auditor · Asst. Director, SREDA, Govt. of Bangladesh

Dual-track expert combining industrial energy auditing with national energy policy formulation. 11+ years of experience, 40+ textile/RMG facility audits. Shaped landmark national policies including BEEER, S&L Regulation, EV Charging guidelines, and EE&C Master Plan 2030. Trained across Japan (JICA), France (IEA), Italy, South Korea, Singapore, China, and India. Participated in COP29.

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Our Team (continued)

Md. Reazul Haque

Senior Energy Auditor - Chemical & Process Industries

Education: B.Sc. Chemical Eng., BUET (2012) · M.Sc. Nuclear Eng., Univ. of Dhaka (2018)

Certifications: SREDA Certified Energy Auditor

Brings rare process-industry depth from a decade at Petrobangla's Sylhet Gas Fields. Supervised commissioning of condensate fractionation, catalytic reforming, ammonia, and 24 MW captive power plants. DCS/SCADA expertise (Honeywell, Schneider). 16+ energy audits with documented optimizations.

Md. Marshal Noor

Energy Auditor - Power Generation & Mechanical Systems

Education: B.Sc. Mechanical Eng., RUET (2013) · CAD & CAM, BITAC

Certifications: SREDA Certified Energy Auditor · BCS Cadre (43rd)

Government-cadre mechanical engineer with 11+ years in heavy power plant operations. Supervised a 272 MW HFO power plant. Auditing includes SREDA-designated consumer audits for Basundhara City, Talha Fabrics, and Jeans and Polo Ltd.

Mareike Fischer

Overseas Consultant - Climate Policy & Supply Chain (Germany)

Education: Climate Policy & International Development

Certifications: 10+ years international experience · EU Compliance & CSRD advisory

A decade of international climate policy expertise from Germany. Specializes in EU compliance, CSRD requirements, and sustainability integration for European buyer supply chains.

Rasel Mahmud

Overseas Consultant - Renewable Energy

Education: Master's in Renewable Energy

Certifications: Utility-scale solar · Wind energy · Energy storage systems

Renewable energy specialist providing technical advisory on large-scale solar PV, wind energy, and battery storage design for Armabel's solar EPC division.

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Why Choose Armabel Global?

» Quality Assurance
ISO-aligned processes and international best practices ensure consistent, high-quality deliverables.

» Client-Centric Approach
Tailored solutions that address specific business needs and industry requirements.

» Data-Driven Decisions
Advanced analytics and measurement tools for evidence-based recommendations.

» Continuous Support
Long-term partnership with ongoing monitoring, optimization, and capacity building.

Six Pillars of Our Practice

Technical Excellence	**Cost Optimization**	**Compliance Assurance**
Sustainability Leadership	**Innovation Focus**	**Partnership Approach**

Commonly Asked

Q. What is an investment-grade energy audit?
A. A detailed, ISO 50001 / SREDA-aligned assessment with documented ROI - suitable for green financing applications.

Q. Do you handle BB Green Transformation Fund applications?
A. Yes - we prepare the full technical package and support the sanction process.

Q. Can you support EU buyer CSRD / ESG reporting?
A. Yes, via our Germany-based overseas advisory and in-house sustainability team.

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Insights & Resources

Our team regularly publishes technical insights and thought leadership on Bangladesh's green-industrial transition. Explore our full library at armabel.org/insights.

- **Green Transformation Fund (GTF)**
  Step-by-step guide for Bangladeshi manufacturers seeking Bangladesh Bank GTF refinancing for energy-efficiency and renewable-energy investments.
- **CSRD & EU Buyer Compliance**
  What Bangladesh's export-oriented RMG factories need to do as EU buyers roll out Corporate Sustainability Reporting Directive (CSRD) obligations.
- **SREDA Designated Consumer Audits**
  Practical compliance roadmap for DC-designated industries - timelines, data requirements, and common pitfalls.
- **Rooftop Solar ROI in RMG**
  Economics, payback scenarios, and financing options for mid-scale rooftop PV systems in Bangladeshi garment clusters.

Downloadable Resources

Energy Audit Sample Report (Redacted)
Investment-grade format used in BB GTF applications

Decarbonization Roadmap Template
Aligned with SBTi and CSRD reporting

Solar Rooftop Feasibility Checklist
Pre-screening tool for factory owners

Visit armabel.org/resources to download the latest versions.

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Let's Build a Sustainable Future Together.

Ready to transform your business with sustainable engineering solutions? Let's talk.

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Business Hours
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