

ENGINEERING CONSULTANCY · SINCE 2024



**MTECH ENGINEERING**  
IT'S YOUR TRUST

OFFICIAL PROFILE

## COMPANY PROFILE 2026

Multidisciplinary engineering consultancy delivering integrated design, testing, statutory approvals, safety audits and project management for industrial, commercial, and public infrastructure facilities across Bangladesh.

Civil  
& Structural

Architecture

Electrical

Fire  
& Life Safety

Plumbing  
& Env

Solar Energy

Testing / NDT

PPR 2008 & e-GP READY · BNBC 2020 · NFPA COMPLIANT · REGISTERED CONSULTANCY

### HEADQUARTERS & CONTACT DIRECTORY

**Address:** House 54, Road 2, North Adabor, Shyamoli, Dhaka – 1207

**Direct Hotlines:** +880 1757-178717 | Engineering Helpdesk

**Email Inquiries:** info.mtechengr@gmail.com

**Official Web:** mtechengineering.com.bd

# Engineering Trust Into Every Facility

Established in 2024 in Dhaka, Bangladesh, MTech Engineering is a premier multidisciplinary engineering consultancy delivering integrated design, testing, statutory approvals, and turnkey engineering solutions for public and private sector facilities.

From civil and structural engineering to 33/11 kV electrical substations, automatic fire protection networks, environmental engineering (ETP/STP), and industrial solar plants, our clients work with a single accountable senior-led team from preliminary survey to final handover.

## CORPORATE FACTSHEET

ESTABLISHED  
**2024 (Dhaka, BD)**

HEADQUARTERS  
**Shyamoli, Dhaka**

DISCIPLINES  
**7 Integrated Units**

TENDER STATUS  
**PPR 2008 & e-GP**

KEY SECTOR  
**Govt + Industrial**

# 07

## INTEGRATED TRADES

All Core Disciplines Under 1 Roof

# 40+

## SERVICE ITEMS

Design, Testing & Approvals

# 08+

## REGULATORY BODIES

RAJUK, DIFE, FSCD, PWD, RSC

# 100%

## CODE DEFENSIBLE

BNBC, NFPA, ACI, AISC Aligned



SENIOR ENGINEER-LED · CONTINUOUS QUALITY OVERSIGHT · ZERO CLASH GUARANTEE

**Procurement-Ready from Day One:** MTech Engineering maintains updated legal credentials, TIN, VAT, bank solvency, and engineer CVs fully structured for PPR 2008 and e-GP public tender pre-qualification.

# Mission, Vision & Regulatory Fluency

## OUR MISSION

To engineer safety, reliability, and lifecycle efficiency into every facility we touch — protecting lives, investments, and the environment through technically defensible, compliant solutions.

## OUR VISION

To be Bangladesh's most trusted multidisciplinary engineering consultancy — renowned for technical excellence, regulatory integrity, and rapid statutory approvals across both government and private sectors.

## OUR CORE VALUES

- Integrity: Transparent, uncompromised engineering advice always.
- Accountability: Senior engineer-led from survey to handover.
- Technical Rigor: Fully sealed, checked, and defensible.
- Sustainability: Optimized for lifecycle operational savings.

**Approval-First Design Philosophy:** Our engineering deliverables are explicitly structured to meet the strict statutory requirements of all primary Bangladeshi regulatory authorities, preventing costly approval cycles.

## STATUTORY & REGULATORY BODIES WE WORK WITH

### RAJUK

Capital Development Authority  
Building permits, occupancy & setback approvals

### DIFE

Dept. of Inspection for Factories  
Factory safety, occupational health & licensing

### FSCD

Fire Service & Civil Defence  
Fire safety plan, hydrant, sprinkler & NOC clearance

### RSC

RMG Sustainability Council  
Structural, electrical & fire life safety compliance

### Nirapon

Factory Safety Initiative  
Safety standards verification for export apparel

### PWD / LGED

Public Works & Local Govt  
Public infrastructure, tenders & civil enlistments

### DPHE / DoE

Public Health & Environment  
WTP/STP/ETP clearance, EIA & effluent testing

### BEPZA

Export Processing Zones  
EPZ factory layout, MEP utilities & safety permits

# Corporate & Legal Identity

Comprehensive corporate profile structured for PPR 2008, e-GP, and corporate vendor prequalification.

**LEGAL ENTITY NAME****MTech Engineering**

Registered Engineering Consultancy Firm

**YEAR OF ESTABLISHMENT****2024**

Founded & headquartered in Dhaka, Bangladesh

**TRADE LICENSE NO.****TRAD/DNCC/015482/2024**

Commercial consultancy clearance

**ISSUING LOCAL AUTHORITY****Dhaka North City Corporation**

Zone 5 / Shyamoli jurisdiction

**TAX IDENTIFICATION (TIN)****12-Digit Registered e-TIN**

NBR Taxes Circle-Dhaka

**VALUE ADDED TAX (VAT / BIN)****13-Digit Electronic BIN**

Customs, Excise & VAT Commissionerate

**INCORPORATION / REGISTRATION****Registered with RJSC / Trade Reg.**

Valid partnership / firm status

**E-GP VENDOR SYSTEM ID****Active on e-GP Portal**

Enlisted for public procurement (cptu.gov.bd)

**BANK SOLVENCY CREDENTIALS****Prime Bank / City Bank**

Account title: MTech Engineering

**PRINCIPAL CORPORATE OFFICE****House 54, Road 2, Shyamoli, Dhaka**

Phone: +880 1757-178717 | info.mtechengr@gmail.com

**STATUTORY ENLISTMENT & TENDER SCHEDULE READINESS**

All official documentary credentials required for national competitive bidding, PPR 2008 tender schedules, and institutional vendor prequalification are fully audited and maintained in tender-ready formats.

**✓ Trade License**

Renewed for current fiscal year with DNCC

**✓ Tax Compliance**

Up-to-date Income Tax Return & e-TIN

**✓ Bank Solvency**

Official solvency certificate and bank statement

**✓ Personnel Credentials**

Certified MIEB engineers & specialists CVs

# Integrated Engineering Ecosystem

Seven specialized engineering disciplines unified under one management roof — zero coordination gaps.

01

**CIVIL & STRUCTURAL**

RCC, steel sheds, pre-fab warehouses, foundations, deep piles, retrofitting & seismic load audits.

02

**ARCHITECTURAL & INTERIOR**

Concept to GFC drawings, 3D visualization, BIM multi-trade clash detection & factory space planning.

03

**ELECTRICAL ENGINEERING**

33/11 kV substations, HT/LT distribution, SLDs, lightning protection, arc flash studies & thermography.

04

**FIRE DETECTION & SAFETY**

Addressable alarms, automatic sprinklers, hydrants, standpipes, clean agent systems & FSCD / DIFE clearance.

05

**PLUMBING & ENVIRONMENT**

Internal water supply, drainage, industrial ETP/STP design, rainwater harvesting & DoE environmental consent.

06

**SOLAR & RENEWABLE**

Rooftop solar PV, net-metering compliance (SREDA), BESS energy storage & financial payback modeling.

07

**TESTING & ASSESSMENT**

Non-destructive testing (NDT), Schmidt rebound hammer, core extraction, ferroskan rebar detection & soil tests.

**END-TO-END PROJECT DELIVERY LIFECYCLE**

01 Survey & Audit → 02 Coordinated Design → 03 Authority Approval → 04 Precision Delivery → 05 Testing & AMC

# Civil & Structural Engineering



**Safe, Economical & Defensible Structures — From Single Sheds to Multi-Storey Facilities**

## CORE ENGINEERING CAPABILITIES

- **Structural Design & 3D Modeling:** RCC, structural steel & composite systems modeled via ETABS.
- **Industrial Buildings & Sheds:** Pre-engineered buildings (PEB), factory sheds & warehouses.
- **Foundation Engineering:** Shallow footings, pre-cast piles, deep bored cast-in-situ piles.
- **Structural Safety Audit:** Condition assessments, load path evaluation per BNBC 2020.
- **Retrofitting & Remediation:** Jacket strengthening, carbon fiber wrapping (CFRP) & steel bracing.
- **Independent Peer Review:** Third-party structural vetting, value engineering & code verification.
- **Floor Load Capacity Studies:** Live load certification & floor load management plans for factories.

## GOVERNING CODES & STANDARDS

- BNBC 2020 (Part 6)
- ACI 318-19 (Concrete)
- AISC 360-16 (Steel)
- ASCE 7-16 (Loads)
- Eurocode 2 / 3

## KEY DELIVERABLES

- ✓ Structural drawings & BOQ
- ✓ ETABS calculation dossier
- ✓ Retrofitting details
- ✓ Safety audit certificate
- ✓ Floor load placards

**Senior Engineering Assurance:** Every structural calculation is vetted by an MIEB chartered senior structural engineer, ensuring defensible approval before RAJUK, RSC, and international audit teams.

# Architectural & Interior Design



**Functional, Compliant & Inspiring Spaces — The Envelope That Drives Industrial Efficiency**

## CORE ENGINEERING CAPABILITIES

- **Concept to GFC Drawings:** Comprehensive architectural packages ready for on-site execution.
- **Industrial Flow & Layout:** Process planning respecting material flow, safety zones & expansion.
- **Corporate Commercial Interiors:** Brand-consistent, durable, acoustic and ergonomic workplace design.
- **Photorealistic 3D Renders:** Exterior elevations, interior walkthroughs & executive presentations.
- **BIM Coordination (Revit):** Multi-trade clash detection across architectural, structural & MEP trades.
- **Renovation & Adaptive Reuse:** Modernizing older commercial assets to contemporary aesthetic codes.
- **Statutory Approval Liaison:** RAJUK, CDA, RDA, and Pourashava sanction drawing sets and tracking.

## GOVERNING CODES & STANDARDS

- BNBC 2020 (Part 3)
- RAJUK Building By-Laws
- Pourashava Regulations
- NFPA 101 (Life Safety)
- ADA Accessibility

## KEY DELIVERABLES

- ✓ Good-for-Construction sets
- ✓ BIM 3D coordinated model
- ✓ 3D exterior & interior views
- ✓ Statutory approval set
- ✓ Material & finish schedules

**Senior Engineering Assurance:** Our integrated BIM modeling detects spatial clashes before ground-breaking, eliminating costly on-site change orders and expediting statutory approvals.

# Electrical Engineering



**Safe, High-Uptime & Future-Ready Power Systems — From 33 kV Substation to Final Outlet**

## CORE ENGINEERING CAPABILITIES

- **HT / LT Substation Design:** 33/11 kV substations, transformer sizing, HT switchgear & LT panels.
- **Power Distribution & SLDs:** Coordinated single-line diagrams, cable sizing & voltage drop calculations.
- **Earthing & LPS Engineering:** Grounding grids & lightning protection systems per BNBC / NFPA 780.
- **Dialux Photometric Studies:** Task-tailored industrial & commercial illumination lux modeling.
- **Infrared Thermography Audit:** Non-contact FLIR thermal imaging to pinpoint overloaded connections.
- **Arc Flash & Fault Analysis:** Short-circuit coordination studies ensuring breaker selectivity per NFPA 70E.
- **Clean Power & Generator Sync:** Online UPS, generator paralleling systems & critical data center power.

## GOVERNING CODES & STANDARDS

- BNBC 2020 (Part 8)
- NFPA 70 (NEC) & 70E
- IEC 60364 Standards
- IEEE 141 & 242
- BREB / DPDC / DESCO Rules

## KEY DELIVERABLES

- ✓ Approved SLDs & layout plans
- ✓ Cable & breaker schedule
- ✓ Thermography scan report
- ✓ LPS calculation & detail
- ✓ Substation BOQ & specs

**Senior Engineering Assurance:** Infrared thermographic scans catch hidden electrical hotspots and phase unbalances before they cause catastrophic fires or unplanned industrial shutdowns.

# Fire Detection & Protection



**Engineered Life Safety & Asset Protection — Fully Compliant with BNBC, NFPA & DIFE Mandates**

## CORE ENGINEERING CAPABILITIES

- **Addressable Fire Alarms:** Intelligent smoke, heat, flame detectors and cause-and-effect matrix.
- **Automatic Sprinkler Design:** Wet pipe, pre-action & deluge systems hydraulically sized via NFPA 13.
- **Hydrant & Standpipe Systems:** Internal wet risers, landing valves, fire pump rooms & exterior hydrants.
- **Clean Agent Fire Suppression:** FM-200, Novec 1230 & CO2 flooding for substations & server rooms.
- **Egress & Emergency Lighting:** Illuminated exit paths, fire door schedules & evacuation diagrams.
- **Fire Risk & Gap Assessment:** Pre-audit gap identification against DIFE, FSCD, and RSC standards.
- **Turnkey Supply & Commissioning:** Certified piping, UL/FM pumps, alarm panels and authority testing.

## GOVERNING CODES & STANDARDS

- NFPA 13 (Sprinklers)
- NFPA 14 (Standpipes)
- NFPA 20 (Fire Pumps)
- NFPA 72 (Alarms)
- BNBC 2020 (Part 4)

## KEY DELIVERABLES

- ✓ Hydraulic calculation reports
- ✓ Fire piping schematic & BOQ
- ✓ Cause-and-effect matrix
- ✓ FSCD clearance package
- ✓ Testing & commissioning logs

**Senior Engineering Assurance:** Every sprinkler and hydrant line is hydraulically calculated for peak density and pressure, guaranteeing rapid clearance from FSCD and international audit bodies.

# Plumbing, Sanitary & Environment



## Water In, Waste Out, Zero Violation — Complete Water Lifecycle & Environmental Solutions

### CORE ENGINEERING CAPABILITIES

- **Water Supply & Booster Design:** Overhead/underground reservoirs, hydro-pneumatic pumping & risers.
- **Sanitary SWV Drainage:** Soil, waste, and vent networks sized for peak simultaneous drainage.
- **Industrial Effluent Treatment (ETP):** Biological, chemical & membrane ETP design & capacity upgrades.
- **Sewage Treatment Plants (STP):** MBBR, SBR & MBR technologies for greywater recycling & reuse.
- **Rainwater Harvesting Systems:** Catchment modeling, filtration, storage and groundwater recharge pits.
- **Water Treatment Plants (WTP):** Iron removal, water softening, multi-media filters & reverse osmosis (RO).
- **Environmental Consent & Audits:** EIA, EMP preparation and Department of Environment (DoE) clearance.

### GOVERNING CODES & STANDARDS

- BNBC 2020 (Part 8)
- International Plumbing Code (IPC)
- DoE ECR 2023 Rules
- WHO Water Standards
- ASHRAE 188 (Legionella)

### KEY DELIVERABLES

- ✓ Plumbing isometrics & layouts
- ✓ ETP/STP process flow (PFD)
- ✓ Pump & pipe sizing schedules
- ✓ DoE consent application sets
- ✓ Water conservation audit

**Senior Engineering Assurance:** Our biological and chemical ETP designs optimize energy and sludge production, lowering operating costs by up to 25% while assuring 100% DoE environmental compliance.

# Solar & Renewable Energy



## Monetize Unused Roof Space — Cut Grid Bills with Net-Metered Rooftop Solar PV Systems

### CORE ENGINEERING CAPABILITIES

- **Industrial Rooftop Solar PV:** Grid-tied, net-metered rooftop solar arrays for factories & warehouses.
- **Net-Metering Sanction Support:** Interconnection studies, distribution utility liaison per SREDA.
- **PVsyst Energy Yield Modeling:** Detailed 3D shadow analysis, irradiance simulations & yield forecasts.
- **Roof Load Structural Vetting:** Module mounting structure (MMS) engineering & wind resistance checks.
- **BESS & Hybrid Energy Storage:** Lithium battery storage for peak shaving, demand management & backup.
- **Electrical DC / AC Integration:** Inverter sizing, string combiner boxes, AC panels & SCADA telemetry.
- **Financial ROI & Payback Models:** Levelized Cost of Energy (LCOE), IRR, and carbon offset reporting.

### GOVERNING CODES & STANDARDS

- SREDA Net-Metering Guidelines
- IEC 61215 / 61730 (PV Modules)
- IEC 62446 (Commissioning)
- BNBC 2020 (Part 8)
- IEEE 1547 (Interconnect)

### KEY DELIVERABLES

- ✓ PV array layout & single line
- ✓ PVsyst yield & loss report
- ✓ Structural roof sign-off
- ✓ Net-metering utility pack
- ✓ Financial payback analysis

**Senior Engineering Assurance:** A typical 500 kWp industrial solar installation in Bangladesh generates ~650,000 kWh annually, paying for itself in under 4 years with a 25-year asset lifespan.

# Testing & Technical Assessment



## Data-Backed Ground Truth — Non-Destructive Testing & Defensible Site Inspections

### CORE ENGINEERING CAPABILITIES

- **Schmidt Rebound Hammer (ASTM C805):** In-situ concrete surface hardness & uniformity assessments.
- **Ultrasonic Pulse Velocity (UPV):** ASTM C597 acoustic testing for internal void, crack & honeycomb detection.
- **Core Extraction & Compressive Crushing:** Diamond core drilling & laboratory compression per ASTM C42.
- **Ferrosan Rebar Detection:** Electromagnetic scanning for rebar location, spacing & concrete cover.
- **Chemical Carbonation & Chlorides:** Phenolphthalein testing to determine concrete degradation depth.
- **Soil Boring & Geotechnical Tests:** Standard Penetration Testing (SPT), soil classification & bearing capacity.
- **Electrical & Thermographic Testing:** Earth resistance (megger), insulation resistance & FLIR scans.

### GOVERNING CODES & STANDARDS

- ASTM C805 (Rebound Hammer)
- ASTM C597 (UPV Testing)
- ASTM C42 (Concrete Cores)
- BS 1881 Testing Concrete
- BNBC 2020 (Part 6 Geotech)

### KEY DELIVERABLES

- ✓ Accredited NDT test dossier
- ✓ Concrete strength statistical evaluation
- ✓ Ferrosan rebar depth charts
- ✓ Soil bearing capacity report
- ✓ Remedial recommendations

**Senior Engineering Assurance:** Defensible laboratory and field test data replace assumptions with verified engineering ground-truth, protecting clients from over-design or unaddressed hazards.

# Engineering Delivery Lifecycle & Why MTech

A structured, 5-phase engineering methodology that delivers predictability from initial audit to handover.

01

**ASSESS**

Site survey, baseline NDT testing & code gap analysis.

02

**DESIGN**

3D BIM multi-trade design, calculations & BOQ formulation.

03

**APPROVE**

Statutory liaison & sanctions from RAJUK, DIFE, FSCD, PWD.

04

**DELIVER**

Turnkey procurement, supervision, quality installation.

05

**MAINTAIN**

As-built documentation, testing certificates & AMC support.

## THE MTECH COMPETITIVE ADVANTAGE

★ **Single-Window Accountability:** All seven engineering trades managed by one synchronized entity — eliminating contractor disputes, finger-pointing, and coordination delays.

★ **Senior Chartered Engineers on Site:** Every engagement is led in person by licensed, seasoned engineers (MIEB). Calculations are verified, not merely stamped from an office.

★ **Approval-First Design Philosophy:** Our drawings are drafted specifically to meet the scrutiny of RAJUK, DIFE, FSCD, and RSC auditors, ensuring fastest possible clearance.

★ **Tender & Public Procurement Fluency:** Full legal compliance with PPR 2008 and e-GP tender schedules, ensuring ready qualification for major government and institutional tenders.

## FLEXIBLE ENGAGEMENT MODELS

### CONSULTANCY & DESIGN

Complete drawings, calculations, BOQ, and statutory approval liaison — client handles contractor procurement.

- ✓ Architectural, structural & MEP drawing sets
- ✓ Itemized BOQ & tender schedule preparation
- ✓ Statutory authority submission & liaison

### TURNKEY EPC DELIVERY

Full engineering, procurement, installation, testing, and commissioning delivered with single-point warranty.

- ✓ Single-point accountability from procurement to handover
- ✓ Strict QA/QC material inspection & vendor vetting
- ✓ Handover with full warranty, as-builts & certs

### ANNUAL MAINTENANCE (AMC)

Scheduled preventive maintenance, periodic safety audits, thermography, and rapid emergency technical response.

- ✓ Periodic infrared thermography & megger tests
- ✓ Fire pump, sprinkler & safety health audits
- ✓ 24/7 priority emergency breakdown dispatch

# Executive Leadership & Strategic Direction



## EXECUTIVE MESSAGE FROM THE MANAGING DIRECTOR & CEO

"At MTech Engineering, our foundational premise is uncompromising engineering integrity. Every facility we touch carries the weight of human safety and vital economic productivity. We built MTech to provide clients with an accountable engineering partner that pairs technical depth with relentless regulatory execution. When you place your trust in us, our senior leadership personally stands behind every calculation, every drawing, and every handover."

— Engr. Mazedur Rahman Mishu, Managing Director & CEO



**Engr. Mazedur Rahman Mishu**  
Managing Director & CEO

MIEB, MSc (Jahangirnagar University)  
BSc in Electrical & Electronic Engineering (UAP)

**Power Systems · Substations · Life Safety**

- 10+ Years Heavy Industrial Electrical Lead
- Lead Authority on Substation & Fire Systems
- Chief Sign-Off for FSCD & RSC Sanctions



**Engr. Md. Al-Mobin Sha Masum**

**Director, Operations**

MIEB, MSc (Jagannath University)  
BSc in Civil Engineering (UAP)

**Structural Design · Foundation Engineering**

- Senior ETABS Seismic & FEA Specialist
- Deep Foundation & Retrofitting Lead
- BNBC 2020 & ACI 318 Code Auditor



**Engr. Mahabubur Rahman Tanvir**

**Director, Operations**

MIEB, MSc (Jagannath University)  
BSc in Civil Engineering (World University)

**Site Execution · Statutory Approvals · QA/QC**

- Head of Multi-Trade Site Execution
- Liaison Lead for RAJUK & DIFE Sanctions
- Rigorous Site QA/QC & Testing Head

# Discipline Engineers & Specialist Leads

Discipline leads backed by over 25 design engineers, estimators, draftsmen, and site supervisors.



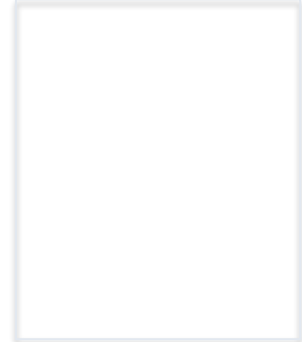
**Engr. Singat Ullah Khan**  
General Manager

MIEB, BSc in Civil Engineering (RUET)



**Engr. Md. Sohel Rana**  
Deputy General Manager

MIEB, BSc in EEE



**Engr. Md. Asaduzzaman Rasel**  
Sr. Project Manager

B.Sc. in Civil & Environmental Engg.



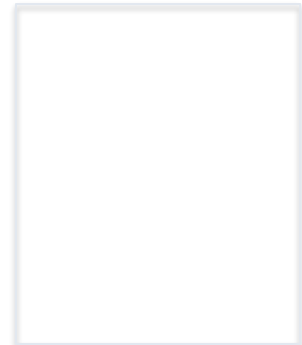
**Md. Saiful Islam Bhuiayan**  
Sr. Manager

Business Development



**Engr. Miad Talukdar**  
Senior Engineer

MIEB, BSc in Civil Engineering (AUST)



**Engr. Md. Asif Moral**  
Senior Engineer

MIEB, BSc in EEE

## FIELD FORCE & HUMAN CAPITAL

**25+**

**ENGINEERS & TECHS**  
Degree engineers & draftsmen

**15+**

**SITE SUPERVISORS**  
Hands-on QA/QC inspectors

**100%**

**MIEB / BNBC ALIGNED**  
Chartered senior oversight

**NATIONWIDE**

**MOBILIZATION**  
Rapid deployment across BD

# Discipline Engineers & Specialist Leads

Discipline leads backed by over 25 design engineers, estimators, draftsmen, and site supervisors.



**Engr. Md. Abu Taleb Ratul**

Executive Engineer

MIEB, BSc in EEE



**Engr. Abir Saha**

Executive Engineer

BSc in EEE



**Engr. Md. Sabbir Hasan**

Assistant Engineer

BSc in Civil Engineering



**Engr. Md. Amir Hamza**

Assistant Engineer

B.Sc. in Civil Engg.



**Engr. Md. Mahtab Uddin**

Project Supervisor

B.Sc. In EEE



**Engr. Sumon Roy**

Fire Safety Engineer

BSc in EEE

## FIELD FORCE & HUMAN CAPITAL

**25+**

ENGINEERS & TECHS

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**NATIONWIDE**

MOBILIZATION

Rapid deployment across BD

# Discipline Engineers & Specialist Leads

Discipline leads backed by over 25 design engineers, estimators, draftsmen, and site supervisors.



**Engr. Md. Mehedi Hasan**  
**Fire Safety Engineer**  
B.Sc in EEE



**Rubel Ahmed**  
**Accountant**  
MBA, Jagannath University



## FIELD FORCE & HUMAN CAPITAL

**25+**

**ENGINEERS & TECHS**  
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Chartered senior oversight

**NATIONWIDE**

**MOBILIZATION**  
Rapid deployment across BD

# Trusted Across Critical Economic Sectors

Delivering engineering peace of mind to mission-critical facilities across Bangladesh.

## GOVERNMENT & PUBLIC BODIES

Ministries, directorates, training institutes, and municipal infrastructure authorities requiring PPR 2008 compliance.

## RMG, TEXTILE & APPAREL

Export garment manufacturing plants, spinning mills, dye-houses and washing facilities subject to RSC & DIFE audits.

## HEAVY MANUFACTURING & PLANTS

Steel re-rolling mills, chemical processing plants, packaging, food & beverage and consumer goods factories.

## COMMERCIAL REAL ESTATE

Multi-storey corporate headquarters, high-rise office towers, shopping complexes and mixed-use developments.

## HEALTHCARE & INSTITUTIONS

Specialized private hospitals, diagnostic centers, medical colleges, university campuses and laboratories.

### NOTABLE CLIENTS, AUTHORITIES & PARTNERS

#### EPYLLION GROUP

Leading RMG & Textile Conglomerate

#### PUBLIC WORKS DEPT (PWD)

Ministry of Housing & Public Works

#### EDUCATION ENGG DEPT (EED)

Ministry of Education

#### DPHE BANGLADESH

Public Health Engineering Department

#### BEPZA ENTERPRISES

Export Processing Zones Authority

#### LGED BANGLADESH

Local Government Engineering Dept

# Government & Statutory Engagements

Representative government sector engagements structured in compliance with PPR 2008 and e-GP tender schedules.

| No. | Name of Work & Scope                                                                                     | Location     | Client / Authority           | Status      |
|-----|----------------------------------------------------------------------------------------------------------|--------------|------------------------------|-------------|
| 1   | Design & installation of addressable fire detection & alarm system for government administrative complex | Dhaka        | Public Works Dept (PWD)      | COMPLETED   |
| 2   | Electrical 33/11 kV substation & distribution upgrade for national technical training institute          | Dhaka Campus | Education Engg Dept (EED)    | COMPLETED   |
| 3   | Water supply, overhead reservoir & sanitation improvements for public healthcare facility                | Manikganj    | Dept of Public Health (DPHE) | COMPLETED   |
| 4   | Rooftop solar PV system with net-metering integration for regional administrative center                 | Gazipur      | SREDA / Power Division       | IN PROGRESS |
| 5   | Structural safety assessment, non-destructive NDT testing & retrofitting of public complex               | Narayanganj  | Local Govt Engg Dept (LGED)  | IN PROGRESS |
| 6   | Fire protection, wet riser, hydrant network & pump room for industrial warehouse in export zone          | Dhaka EPZ    | BEPZA / Zone Authority       | COMPLETED   |

## OFFICIAL TENDER PREQUALIFICATION NOTICE

Every listed government sector project is backed by signed work orders, completion certificates, and authority endorsements. Supporting credentials, engineer CVs, and audited financial reports are furnished with each formal tender submission.

# Industrial & Private Sector Projects

Turnkey MEP, fire life safety, structural retrofitting and solar installations for leading enterprises.

| No. | Name of Work & Scope                                                                              | Location         | Client / Facility      | Status      |
|-----|---------------------------------------------------------------------------------------------------|------------------|------------------------|-------------|
| 1   | Addressable fire detection, alarm & automatic sprinkler system for 9-storey export RMG factory    | Gazipur          | Ready-Made Garments    | COMPLETED   |
| 2   | 33/11 kV industrial substation, power factor correction & HT/LT switchgear distribution           | Narayanganj      | Spinning Mills Ltd     | COMPLETED   |
| 3   | Full MEP design, BIM clash coordination & approval liaison for 18-storey commercial tower         | Gulshan, Dhaka   | Commercial Real Estate | COMPLETED   |
| 4   | Internal plumbing, sanitary booster pumps & biological STP system for 250-bed healthcare facility | Dhaka            | Specialized Hospital   | COMPLETED   |
| 5   | Net-metered rooftop solar PV plant with SCADA monitoring & net-metering utility sanction          | Cox's Bazar      | 5-Star Resort & Hotel  | IN PROGRESS |
| 6   | Industrial Effluent Treatment Plant (ETP) biological upgrade & DoE compliance audit               | Savar            | Textile & Dyeing Mill  | COMPLETED   |
| 7   | Comprehensive structural audit, NDT rebound hammer testing & seismic retrofitting design          | Motijheel, Dhaka | Corporate HQ Building  | COMPLETED   |

### CLIENT CONFIDENTIALITY & REFERENCE VISITS

To protect commercial interests and factory audit non-disclosure agreements, select client identities are anonymized herein. Verifiable reference contacts, peer-reviewed engineering drawings, and guided site inspections can be coordinated under mutual non-disclosure.

# Codes, Technical Standards & Software Stack

Every calculation, structural simulation, and MEP drawing is backed by industry-standard engineering tools.

## CODES & STANDARDS

- **BNBC 2020**  
National Building Code
- **ACI 318-19**  
Reinforced Concrete
- **AISC 360-16**  
Structural Steel Design
- **ASCE 7-16**  
Minimum Design Loads
- **NFPA 13, 14, 20**  
Sprinklers & Hydrants
- **NFPA 72 & 101**  
Alarms & Life Safety
- **NFPA 70 / 70E**  
Electrical Code & Safety
- **IEC 60364**  
Electrical Installations
- **DoE ECR 2023**  
Environmental Conservation
- **SREDA Guidelines**  
Net-Metering Solar PV

## SOFTWARE ARSENAL

- **CSI ETABS 21**  
3D Structural FEA Modeling
- **STAAD.Pro Connect**  
Steel Structure Analysis
- **Autodesk Revit**  
3D Multi-Trade BIM
- **AutoCAD 2026**  
2D Detailed Drafting
- **DIALux evo**  
Photometric Lux Simulation
- **PVsyst 7**  
Solar Yield & Shading
- **Elite Fire Hydraulics**  
NFPA Sprinkler Hydraulics
- **Pipe Flow Expert**  
Pump & Piping Networks
- **ETAP PowerStation**  
Load Flow & Arc Flash
- **Navisworks Manage**  
3D Clash Coordination

## 3-TIER QA PROTOCOL

### TIER 1: CALCULATION AUDIT

Every formula, member sizing, and hydraulic loop is checked by a dedicated discipline peer engineer.

### TIER 2: BIM CLASH RESOLUTION

Architectural, structural, and MEP models are overlaid in Navisworks to eliminate cross-trade physical interference.

### TIER 3: PRINCIPAL REVIEW

A founding partner and MIEB licensed senior engineer conducts final seal vetting prior to client submission.

### CONSTRUCTION SITE QA/QC

Full-time site engineers verify rebar placement, concrete pouring, pipe pressure testing, and cable terminations.

## FIELD TESTING & PRECISION INSTRUMENTATION FLEET

### Fluke Ti480 PRO Thermal Camera

Switchgear thermography, electrical hot-spot audits & NFPA 70B safety inspections.

### Schmidt Digital Rebound Hammer

In-situ non-destructive compressive strength (NDT) testing for concrete structures.

### Chauvin Arnoux 1000V Megger Tester

Substation earth ground resistance, step/touch potential & insulation verification.

### Flowmaster Digital Hydrant Flow Meter

Fire pump water discharge calibration, pitot head loss & sprinkler testing.

### Precision Sound Level & Lux Meter

DoE ECR 2023 factory noise compliance & workplace photometric illumination audits.

### TSI Pitot & Anemometer Flow Kit

HVAC air velocity balancing, duct static pressure profiling & cleanroom CFM validation.



# MTECH ENGINEERING

IT'S YOUR TRUST

## LET'S BUILD SOMETHING SAFE, COMPLIANT & EFFICIENT.

Tell us about your upcoming project or facility requirements. Our senior engineering team will respond with a clear scope, defensible methodology, and transparent timeline.

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**PROPOSALS, PREQUALIFICATIONS & TENDERS WELCOME**

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