



Your **Dream** Our **Responsibility**





We believe in
Compliance **&** **Sustainable
Solutions**

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Dimension Nano Engineering, founded by **Engr. M M Haque Rajib** in 2013, has grown into a **premier engineering firm** in Bangladesh, providing expert services in the **design, construction, and retrofitting** of RCC and steel structures. With a strong focus on **fire safety, electrical safety, and sustainable construction**, the company is dedicated to meeting the growing demands of the **industrial, commercial and residential sector** while delivering **high-quality, safe, and environmentally responsible** solutions.

As an enlisted service provider for regulatory partners such as **RSC, Accord, Alliance**, and for brands including **Primark**, Dimension Nano Engineering has completed over **100 structural designs**, constructed more than **60 RCC and Steel Structures**, and successfully executed **65 RSC and Accord-approved DEA and Retrofitting projects**. The company offers services including **detailed engineering assessments (DEA), turnkey construction, and project management**, supported by **BEPZA membership and EGP licensing**.

Dimension Nano Engineering is committed to building for the future through **green buildings** and **sustainable construction practices**, aligning with the global transition to **environmentally friendly infrastructure**. Its dedication to **quality, innovation, and sustainability** positions the company as a **trusted partner** for **engineering projects** of all scales.



100+

Structural Designs & Consultancy

60+

Buildings Constructed

65+

RSC & Accord Approved with our DEA

10+

Project Management & Consultancy

Standards & Codes

- Bangladesh National Building Code (BNBC)-2006/2020
- American Concrete Institute (ACI318-14)
- American Society of Civil Engineers (ASCE 7-05)
- Uniform Building Code (UBC-94)
- American Society for Testing Materials (ASTM)
- International Building Code (IBC)
- Federal Emergency Management Agency (FEMA)

WELCOME TO
DIMENSION



Story behind

It is with great pleasure that I introduce **Dimension Nano Engineering**, a company born out of a deep **commitment** to contribute to the fast-developing infrastructure of **Bangladesh**. As a rapidly growing nation, Bangladesh requires **innovative**, **sustainable**, and **quality-driven solutions**, and we are proud to be part of this transformation.

With over **15 years** of experience in the **engineering sector**, I have seen firsthand the vital role that **efficient** and **sustainable construction** plays in building a better future for our country. This experience has shaped **Dimension Nano Engineering** into a **leading force** in designing and constructing **RCC** and **Steel structures**, offering services in **structural design**, **retrofitting**, **fire safety**, and **electrical safety**, among others.



Our **mission** is simple to deliver **high-quality**, **safe**, and **energy-efficient** solutions that not only meet but exceed our clients' expectations. With a **vision** of shaping a **sustainable Bangladesh**, we are driven by a focus on **innovation**, **quality**, and **environmental responsibility** in every project we undertake.

We take immense pride in our dedicated team of **architects**, **engineers**, and **skilled workers**, who use **advanced design software** and follow **international standards** to ensure each structure is not only **durable** and **functional** but also **attractive** and **eco-friendly**. Our commitment to **quality**, **integrity**, and **sustainability** will guide us as we continue to grow, and we are confident that, with the support of our valued customers and partners, we will contribute to the development of a **better tomorrow** for Bangladesh.

Thank you for your interest in **Dimension Nano Engineering**. We look forward to building a **sustainable future** together.

A handwritten signature in black ink, appearing to read "Engr. M M Haque Rajib".

Engr. M M Haque Rajib
Managing Director
Dimension Nano Engineering



Our Services

Construction &
Retrofitting
Consultancy

Construction &
Retrofitting

Detailed
Engineering
Assessment

Project
Management &
Consultancy

Structural Design & Consultancy

1



Kick off Meeting

- Understanding the context of the organization
- Understanding the needs and expectations



Initial Site Visit

- Visualize and understanding overall site condition
- Initial land demarcation
- Visualizing client's vision of the project



2



Design offer

- Submission of design offer and agreement
- Negotiation & acceptance design offer

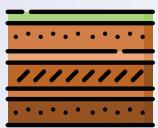


4



Surveying & Mapping

- **Topographic Surveys:** Mapping land features for precise planning.
- **Land Demarcation:** Defining clear property boundaries.



Soil Investigation

- Soil testing and analysis
- Foundation design recommendations



6



Architectural Design

- Conceptual and detailed architectural planning
- 3D modeling and visualization
- Interior layout planning



Structural Design & Analysis

- RCC and steel structural drawing
- Fabrication & Erection Drawing
- Earthquake-resistant design



8



Documentation & Other Designs

- Bill of Quantities (BOQ)
- Electrical, Fire & Plumbing Drawing
- Working Drawing

Construction & Retrofitting



Initial Contact & Inquiry

Understanding the client needs. Type of project (RCC, steel structure etc.), location, budget, timeline.



Preliminary Consultation

Scheduling a site visit or virtual meeting. Discussing project scope, feasibility, and expectations. Sharing portfolio or past projects to build trust.



Requirement Analysis

Collecting detailed technical and functional requirements. Understand regulatory constraints, land conditions, and client preferences.



Project Design & Planning

Developing architectural and structural drawings. Getting client approval and make necessary revisions. Applying for permits and approvals.



Contract Signing

Drafting a contract agreement covering scope of work, payment schedule, project milestones, penalties and warranties and ensuring both parties sign and retain copies.



Proposal & Quotation

Prepare a technical proposal including: Design concept, Materials and methods, Timeline, Cost estimate, Submit a formal quotation with terms and conditions.



Execution & Supervision

Mobilizing resources and begin construction. Providing progress reports, site photos, and updates and maintaining regular communication with the client.



Quality Control & Safety

Ensuring compliance with standards (BNBC, RSC, etc.). Conducting regular site inspections and safety audits.



Handover & Final Billing

Completing final touches and site cleanup. Conducting final walkthrough with the client and Submitting final invoice and collect payment.



Detailed Engineering Assessment (DEA)

1. Initial Contact & Inquiry

Understanding the client's requirements, including identifying the specific buyer or regulatory body involved, is crucial for tailoring our approach to meet their expectations effectively.



2. As-Built Drawings Preparation

Prepare or verify as-built architectural and structural drawings.

Drawings Include:

- Foundation layout
- Floor-wise layout plans
- Elevations and sections
- Beam and column schedules
- Machine layout and load distribution



3. Engineering Tests

- Concrete Core Testing
- Rebar Scanning
- Steel Testing
- Sub-soil Investigation



4. Loading Assessment

Evaluating dead loads (self-weight of the structure, equipment, finishes,) and live loads (usage-based). Creating floor wise load plan.



5. Structural Analysis

- Developing a **structural model** using software like **ETABS**, **STAAD.Pro**, or **SAFE**.
- Following **BNBC 2006/2020** and other relevant codes.



6. DEA Report Compilation

- Executive summary
- Project background and scope
- Codes and standards used
- Field observations
- Lab Test results
- Structural analysis findings
- Recommendations (e.g., load restrictions, retrofitting needs)



7. Retrofitting Design

- If deficiencies are found, design appropriate retrofitting schemes.
- Include detailed drawings, assumptions, and safety measures (if needed)



8. Final Approval

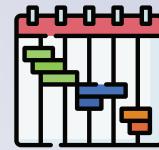
Submit the DEA report and Get approval from the RSC, NIRAPON, PRIMARK, INDITEX or buyer.



Project Management Consultancy (PMC)

Project Planning & Coordination

- Develop detailed project schedules and milestones.
- Coordinate between client, contractors, consultants, and vendors.



Quality Assurance & Control

- Monitor day-to-day site activities.
- Ensure work is progressing as per design, schedule, and safety standards.
- Implement quality control procedures.
- Conduct regular inspections and testing of materials (e.g., concrete, steel, soil).
- Ensure compliance with codes and specifications.
- Arrange third-party lab testing for construction materials.
- Verify test results and approve materials for use.

Construction Supervision



Progress Monitoring & Reporting

- Track physical and financial progress.
- Submit regular reports to the client (daily, weekly, monthly).
- Highlight delays, risks, and corrective actions.
- Ensure contractors follow scope, quality, and safety standards.
- Issue warnings or notices for delays or non-compliance.
- Assist in resolving disputes or technical issues.

Material Testing & Certification



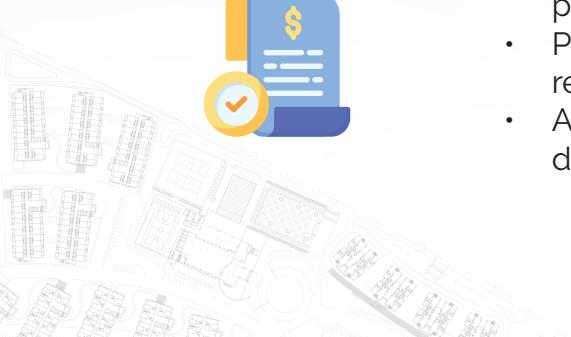
Cost Control & Billing Verification

- Verify contractor bills and quantities.
- Monitor budget utilization and suggest cost-saving measures.
- Ensure all works are completed as per contract.
- Prepare as-built drawings, test reports, and final documentation.
- Assist in project handover with a detailed report.

Contractor Management



Handover & Documentation



Our Star Clients



SM Sourcing



Bancoff Ltd



Bay Group



Posmi Sweaters Ltd.



Asrotex Group



Tex International BD



Florence Group



Cherry Group



NR Group



Crystal Industrial
Bangladesh Pvt. Ltd.



HopLun



Dynasty Group



Spider Group



Lantabur Group



Ha-meem Group



Axis Knitwears Ltd.



Lusaka Group



Versatile Group



T.J. Sweaters Ltd.



NR Group

Our Star Clients



Foot Gear
Accessories Ltd



SAG Fashion Ltd



Iris Group



Naomi Sweaters Ltd



Larsen & Toubro



Peak Apparels Ltd



PowerChina



Rowa Fashions Ltd.



Spectra Sweaters Ltd



Lakhsma Sweaters Ltd



Fullcharm
Fashion



North-West Power
Generation Co. Ltd



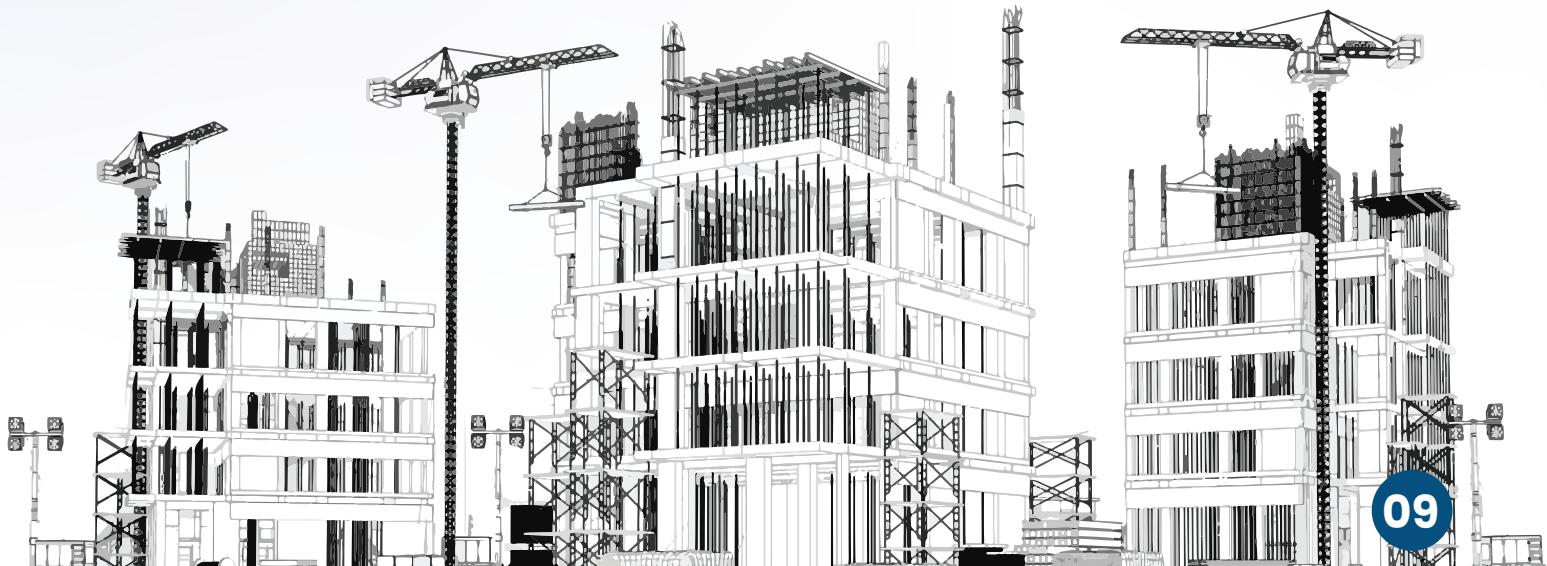
Ministry of Disaster
Management and Relief



Apparel Today
Limited



INDEX Agro
Group



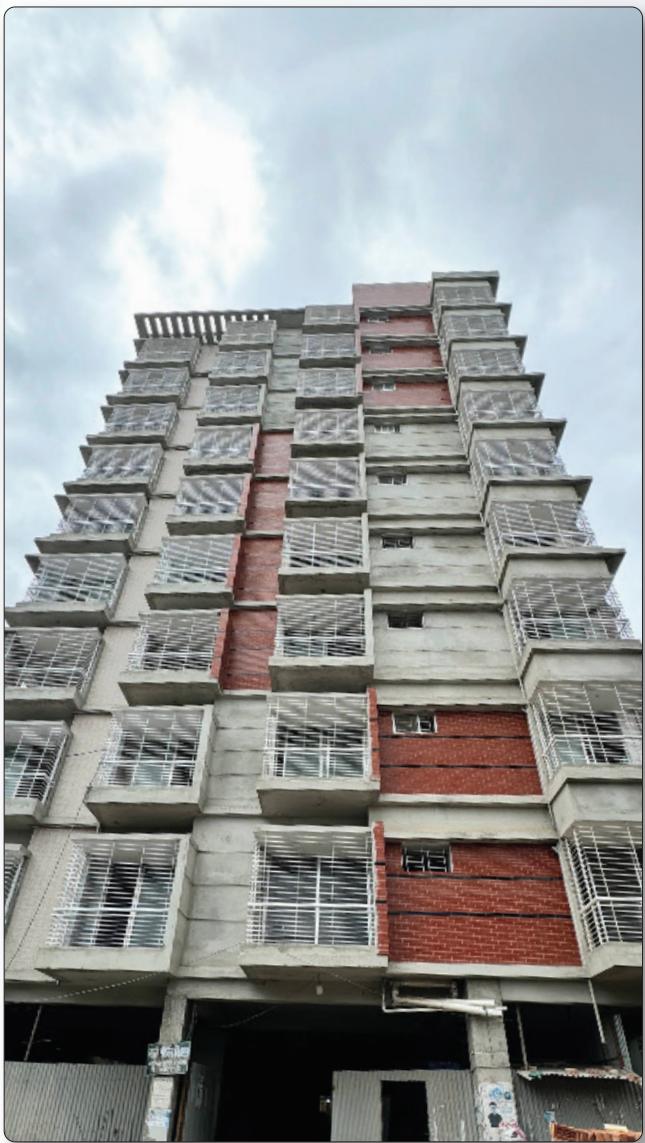


Project Name: Dormitory Building
Project Location & Year: Mymensingh (2018)
Type of Construction: Commercial - RCC





Project Name: Badda Garden Tower
Project Location & Year: Badda, Dhaka (2022)
Type of Construction: Residential - RCC





Project Name: Silo Towers

Project Location & Year: Index Group, Mawna (2022)

Type of Construction: Industrial - Steel





Project Name: Landscaping

Project Location & Year: Payra 1320 MW Thermal Power Plant

Type of Construction: Government - Landscaping





Project Name: Duplex FarmHouse
Project Location & Year: Amin Mohammad Housing (2019)
Type of Construction: Residential - RCC





Project Name: Food Gear Accessories Ltd
Project Location & Year: Board bazar, Gazipur
Type of Construction: Industrial - Steel





Project Name: SM Sourcing
Project Location & Year: Baimail, Konabari, Gazipur
Type of Construction: Industrial - RCC & Steel





Never Like the Rest

DIMENSION

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