



# DR. ENGR. MD. SAHEDUL ISLAM

Head of Plant | CEO | General Manager | AAC Manufacturing Specialist | Plant Operations |  
Production | Maintenance & Utility | Engineering | Project & Commissioning Expert  
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## PROFILE INTRODUCTION

### Executive Biography!

I am a Manufacturing Executive, Mechanical Engineer, AAC Industry Specialist, and Chief Executive Officer (CEO) with over 17 years of progressive experience, including 14 years in leadership roles across the GCC. I currently serve as the Chief Executive Officer (CEO) of Veritas Bangladesh Limited, an engineering and industrial services company specializing in Mechanical, Electrical, Plumbing & Sanitary (MEP), Renewable Energy, and Power Systems. My expertise encompasses AAC manufacturing, plant operations, production management, maintenance and reliability engineering, utility management, project execution, factory commissioning, and operational excellence.

Throughout my career, I have successfully led large-scale manufacturing operations and greenfield industrial projects in Bahrain and Bangladesh. I have held senior leadership positions including CEO, Head of Plant, General Manager (Factory Operations & Production), Chief Engineer, Senior Mechanical Engineer, and Project Engineer, consistently delivering measurable improvements in productivity, equipment reliability, operational efficiency, and cost optimization.

I possess comprehensive knowledge of the entire AAC manufacturing process, from plant design, equipment installation, commissioning, and startup to full-scale commercial production. My technical expertise includes autoclaves, boilers, steam systems, air compressors, chillers, water treatment systems (WTP, ETP & STP), preventive and predictive maintenance, Lean Manufacturing, TPM, CAPEX & OPEX management, production planning, and continuous improvement.

I have played a key role in the successful commissioning of eight industrial manufacturing facilities, including three AAC production plants, as well as glass manufacturing, CFL production, oxygen generation, ore dressing, and water treatment facilities. I have led multidisciplinary teams of up to 300 employees and managed manufacturing plants with production capacities of up to 1,000 m<sup>3</sup>/day.

My leadership has resulted in increasing production by up to 25%, reducing equipment downtime by 20%, improving Overall Equipment Effectiveness (OEE) to 80%, reducing raw material consumption by 15%, lowering production costs, improving machine efficiency, and generating annual operational savings of approximately USD 100,000 through engineering optimization and effective plant management.

Academically, I hold a Doctorate in Management Studies (DMS), with research focused on Autoclaved Aerated Concrete (AAC) Blocks: Unique Materials for the Construction Industry. I also hold an Executive MBA in Production & Project Management and a Bachelor of Science in Mechanical Engineering from Dhaka University of Engineering & Technology (DUET), Bangladesh.

I am recognized for my technical expertise, strategic leadership, integrity, and commitment to operational excellence. I am passionate about building high-performing manufacturing organizations, developing engineering talent, optimizing industrial performance, and driving sustainable business growth. I am seeking senior leadership opportunities where I can leverage my international experience to create long-term value, operational excellence, and sustainable business growth.

#### **CORE EXECUTIVE COMPETENCIES**

Plant Operations & Manufacturing Leadership  
AAC Manufacturing Technology  
Plant Commissioning & Startup  
Production Planning & Control  
Maintenance & Reliability Engineering  
Utility & Energy Management  
Mechanical Engineering  
Lean Manufacturing  
TPM  
Preventive & Predictive Maintenance  
Root Cause Analysis (RCA)  
OEE Improvement  
CAPEX & OPEX Management  
Budgeting & Cost Control  
Project Management  
ERP Systems  
ISO Standards  
Quality Management  
Team Leadership  
Factory Expansion

#### **EXECUTIVE HIGHLIGHTS**

17 Years Manufacturing Experience  
14 Years GCC Experience  
8 Industrial Plants Commissioned  
3 AAC Plants Successfully Commissioned  
Managed 300+ Employees  
Increased Production by 25%  
Reduced Downtime by 20%  
Reduced Production Cost by 5%  
Reduced Raw Material Consumption by 15%  
Saved Approximately USD 100,000 Annually  
Improved OEE to 80%  
Improved Machine Efficiency by 10%

#### **Research & Publications:**

##### **[“Eco-Friendly AAC Blocks for Construction in Smart Cities”](#)**

Presented at the 3rd Smart Cities Symposium 2020, University of Bahrain, and later published in IEEE Xplore (2021) under the Institute of Engineering & Technology (IET) at University of Bahrain.

## **WORK EXPERIENCE**

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#### **Chief Executive Officer (CEO)**

**Sep 2025 — Current**

##### **Company: Veritas Bangladesh Ltd.**

Location: Apon Heights (Level-12/A), 27/1/B, Road#03, Shyamoli, Dhaka-1207.

##### **Key Responsibilities:**

Overall Company & Project Leadership, Engineering Solution, Consultancy, service of Mechanical, Electrical, Plumbing, Renewable energy, Power systems etc.

#### **Head of Plant AAC, General Manager Factory Operation & Production Jan 2025 -- Sep 2025**

##### **Company: Maxcrete Limited (AAC Plant Cap. 1000 m<sup>3</sup>)**

Location: Jagir, Manikganj. Corporate office: RAOWA Complex, Level-11 VIP road, Mohakhali, Dhaka-1206.

##### **Key Responsibilities:**

- 1. Overall Plant Leadership:** Oversee the full operations of the AAC Block Plant, including production, maintenance, quality, logistics, and manpower management.
- 2. Production & Process Management:** Ensure smooth and efficient daily production in line with targets. Optimize the manufacturing process to maintain product quality and reduce wastage.
- 3. Maintenance & Utilities:** Lead preventive and corrective maintenance of machinery, utilities (Boiler, Compressor, Generator, WTP, Hydraulic & Pneumatic Systems, HVAC), and mechanical systems to ensure plant uptime.

4. **Manpower & Team Management:** Supervise and develop plant teams, ensure proper training, assign responsibilities, and maintain discipline and productivity.
5. **Procurement & Inventory:** Manage procurement of raw materials, spare parts, and machinery. Ensure accurate stock levels and effective store control.
6. **Project & Erection Work:** Handle new project installation, expansion, erection, and commissioning as per schedule and cost control.
7. **Quality Control & Assurance:** Maintain product quality according to ISO and industry standards. Coordinate with QA/QC for continuous improvement.
8. **Compliance & Safety:** Ensure compliance with safety protocols, legal regulations, and environmental guidelines.
9. **Client & Supplier Coordination:** Communicate with clients, consultants, and local/international suppliers for smooth business operations.
10. **Budgeting & Cost Control:** Prepare operational budgets, monitor expenses, and implement cost-saving measures.
11. **Reporting & MIS:** Submit daily, weekly, and monthly reports to management covering production, performance, and strategic insights.

**Deputy Head of Plant & Production**

Sep 2024 — Dec 2024

**Company: Eco Friendly Green Bricks Ltd. (AAC Plant Cap. 500 m<sup>3</sup>)**

Location: North Lakkindar, Shagordighi, Ghatal, Tangail.

**Specific responsibilities for the AAC Plant include:**

1. Managed maintenance and utility operations for a manufacturing facility with over 150 employees. Lead daily production operations to ensure efficiency.
2. Reduced equipment downtime by 25% through implementation of preventive maintenance programs. Optimize production processes, reduce operational costs, and promptly resolve production-related issues.
3. Supervised operation and maintenance of boilers, generators, air compressors, HVAC systems, WTP, and ETP.
4. Manage and develop production staff, ensuring proper training, motivation, and performance management. Improved plant energy efficiency, resulting in a 15% reduction in utility costs.
5. Ensure workplace safety, compliance with regulatory standards, and adherence to company policies.
6. Maintain smooth material flow and coordinate with suppliers and procurement teams
7. Monitor and report on key performance indicators (KPIs) to the management.
8. Uphold administrative, managerial, and supervisory authority as directed by the owner or designated authority, ensuring the company's interests are effectively served.

**Chief Engineer & In-charge (Maintenance & Utility)**

March 2016 — June 2026

**Company: Insulated Building System Factory W.L.L (AAC Plant Cap. 1000 m<sup>3</sup>)**

Plant Location: Opposite of ALBA, Bahrain. Belongs to **Kooheji Contractor's W.L.L Bahrain.**

This is an Autoclave Aerated Concrete (AAC) Blocks manufacturing factory in Bahrain, which is a joint venture Company with **Kooheji Contractor's in Bahrain and National Industries Company in Kuwait.**

<http://www.nig.com.kw/>

**Job Responsibilities:**

1. Oversaw operations, maintenance & Utility, WTP, Chillers, Cooling Tower, Boilers, Steam Generation, Sub-station, Overhead cranes/Tower Cranes, ETP/STP as well as procurement activities of the entire factory.
2. Conducted ISO internal audits to ensure quality and process compliance.
3. Led third-party inspections and certifications of industrial equipment, including overhead cranes, boilers, autoclaves/vessels, and other machinery, in coordination with agencies like Bureau Veritas and Lloyd's.

4. Controlled and optimized production processes and procedures to ensure efficiency and quality standards.
5. Managed factory maintenance, including preventive and corrective maintenance of equipment.
6. Handled procurement, purchasing, and inventory control of spare parts, raw materials, and finished goods.
7. Supervised store management and logistics to maintain seamless material flow.
8. Dealt with clients, and managed relationships with both national and international suppliers.
9. Ensured timely delivery, cost efficiency, and compliance with safety and operational standards.

**Sr. Mechanical Engineer (Maintenance & Utility)**

March 2013 — 2016

**Company: Insulated Building System Factory W.L.L**

Project Location: Opposite of ALBA, Bahrain. Belongs to **Kooheji Contractor's W.L.L Bahrain.**

Responsible for Operation and Maintenance & Utilities works of the factory and ISO internal audits. Related to the production process and procedure has to be controlled. Related to maintenance, all the shutdown maintenance has to be followed and preparing daily, weekly, monthly and yearly maintenance schedule and implementation. The major Machinery is Ball Mill, Mixer Machine, Cutting Machine, Tilting machine, Overhead Cranes, Boiler, Autoclaves, Chiller, Cooling Tower, and Compressor etc. Purchasing spare parts and Machinery related to the production line, and developing production capacity and quality day by day. Maintaining all the industrial health and safety procedure.

**Mechanical Engineer (Project In charge.)**

March 2011 — March 2013

**Company: Insulated Building System Factory W.L.L**

Project Location: Opposite of ALBA, Bahrain. Belongs to **Kooheji Contractor's W.L.L Bahrain.**

Responsible for all the mechanical and electrical Erection works. Have done approval from the Ministry of Environment, Ministry of EWD. Ministry of Municipalities. Ministry of Civil Defense etc, More than 30 subcontractors were under the supervision of mine. All the Machinery installation and fabrication works have successfully done and this mega project has successfully erection & commissioned in 2013

**Mechanical Engineer (Project In charge)**

December 2009 — March 2011

**Company: Nasir Glassware & Tube Industries Ltd.**

Company Location: Mirzapur, Tangail, Bangladesh, <http://nasirgroup.com.bd/>

[https://en.wikipedia.org/wiki/Nasir\\_Group](https://en.wikipedia.org/wiki/Nasir_Group)

Additional Responsibilities:

- Led and managed complete mechanical and electrical erection works of multiple industrial projects.
- Supervised installation of mechanical pipelines (gas, water, oxygen, air), underground piping, and fabrication works.
- Oversaw electrical installations including cable laying, control panels, sub-station setup, and pump houses.
- Directed erection and commissioning of complex facilities such as:  
Oxygen Station, Batch Plant, Ore Dressing Plant, Concentration Pools, Magnetic Separation Plant, Nasir Printing & Packaging Plant, Nasir Energy Saving Lamp Factory, Nasir Glassware & Tube Industries Ltd.
- Supervised operations involving over 30 subcontractors, ensuring safety, quality, and timely completion.
- Ensured coordination among civil, electrical, and mechanical teams for seamless project delivery.

**Site & Factory Management**

- Maintenance & shut down maintenance, firefighting systems, health & Safety has followed as well as producing AAC blocks as per the production plan & schedule.
- Preparing spare parts lists and collecting offer from the different supplier at home and abroad, as well as ordering new spare parts as required.
- Co-ordination and having internal audits for ISO-2015:9001 and strictly maintaining safety rules and regulation in the factory.
- Managing on-site, Machinery Installation & Fabrication activities.
- Preparing schedules and chart of works with bar chat method.
- Inspecting field sites to observe and evaluate the condition of facilities and structures.

**PROJECT  
EXPERIENCE**

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## PROFESSIONAL EXPERIENCE

### Resource Planning & Control

- Material planning and developing vendors for obtaining item procurement of materials.
- Developing manpower and ensuring timely availability of manpower and equipment's and materials

### Commercial Operations

- Managing the tending process from floating of bids to awarding of suppliers and contracts.
- Coordinating with contractors and supplier with regard to the techno-commercial issue.
- Liaising with suppliers, clients, designer, consultants, contractors and external agencies for approval obtaining statutory clearances.

### Engineering

1. Able to adapt computer program solutions to improve efficiency and effectiveness, organizing records, and compiling reports by the Portfolio Management System.
2. The experience of using Computer Aided Design Systems and related software.
3. Industrial Installation, Pipe line fabrication, welding as well as Erection & Commissioning.
4. The Concept of Refrigeration and Air-conditioning System.
5. Worked in Machine Shop and operation with the deferent machinery like; Lath, Milling M/C, Drilling M/C, Shaper M/C and Grinding etc.
6. Vast knowledge of different pipelines fabricating and steel structure reinforcement and concept about the automobile.
7. Able to adhere to engineering principles and techniques.
8. Knowledge of considering constraints like safety, cost and environmental issues.
9. Ability to evaluate and test theoretical designs as well as according to International Standard, Like; **ISO, ASME, BSI, ASTM, SAE**, etc.
10. Basic Industrial Electrical Knowledge Like, Drawing, Transmission & Distribution, Panel, DB, SMP, Control panel, Required Load calculation

### QUALITY ASSURANCE

1. Maintain Quality Management System throughout the organization and Reviewed in process inspection and Training to personal
2. Calibration of all equipment's, instruments, gauges, Boilers, Autoclaves, Cranes, Lab equipments and different machine.
3. Prepared update and maintained maintenance and operation qualification records.
4. Inward Inspections (Raw materials & MS items).
5. Hydro test inspection for water pipe, steam pipe, slurry pipe, Boiler Autoclaves etc.
6. Final Inspection and documentation of production and all the factory/project.
7. Coordinate with government inspections and third-party inspections and certification
8. Industrial and personal safety inspections and Conduct Internal Audit.
9. Drawing study and prepared internal QAP

## EDUCATION

<b>Doctorate In Management Studies [DMS]-2018</b>	2015 - 2018
The Indian Institute of Business Management & Studies (IIBMS), India. The research title was " <b>Autoclave Aerated Concrete (AAC) Blocks: Unique Materials for Construction Industry.</b> "	
<b>Executive Master's In Business Administration (EMBA)-2017</b>	2016 - 2017
Production & Project Management. National Institute of Business Management (NIBM), India.	
<b>Bachelor of Science in Engineering-2009</b>	2005 - 2009
Department of Mechanical Engineering Dhaka University of Engineering & Technology (DUET), Gazipur, Bangladesh.	
<b>Diploma in Engineering-2004</b>	2001- 2004
Mechanical Technology. Cumilla Polytechnic Institute, Cumilla, Bangladesh.	
<b>Secondary School Certificate (SSC, Group Science)- 2000</b>	1990- 2000
Darora D.C. High school, Cumilla. Bangladesh.	

## PROFESSIONAL TRAINING COURSE

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1. Fire Fighting Systems (FFS), Fire Detection System (FDS), & Fire Safety Assessment (FSA)-2025
2. Occupational health and safety by IEB overseas chapter Bahrain 2022
3. Promoting Excellence, Recognizing Achievement On Quality Management Transition Course-2018
4. Basic Health & Safety Training from OSHA Academy, Bahrain. - 2016
5. Three Months Industrial Attachment at S. Alam Engineering Ltd.Tongi, Gazipur.19 Dec 2003- 26 Feb 2004
6. Three weeks (21 days) Industrial Training at Bangladesh Machine Tools on Dec 2008 Factory Ltd. (A Commercial Enterprise Under the Management of Bangladesh Army) Joydebpur, Gazipur-1700.

## WORKING WITH INTERNATIONAL COMPANY

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- KEDA SureMaker China.
- Dongyue Machineries China,
- China Triumph International Engineering Co., Ltd. China.
- Ming Wei Paper ware Machinery Co., LTD. Taiwan.
- Tianjin Universal Machinery Import & Export Corporation, China.
- Eurobend S. A. Advance Technology Products, Athens Greece.
- Olivoto Company, Italy.
- Shanghai Fuyong International Trade Co. Ltd. China.
- Zhengzhou Boiler Company Ltd. China.
- National Industries Company Ltd. Kuwait.
- Omani Germany Company Ltd. Oman.

## LANGUAGE SKILLS

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Bengali ( Native Language)  
English ( Specking, Reading, Writing, Listening Fluent )  
Hindi & Urdu (Specking Excellent) and  
Arabic ( Working Knowledge)

## PERSONAL INFORMATION

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**Md. Sahedul Islam**  
IEB fellowship No: F/13852  
Date of Birth: 01 Mar, 1984  
CPR & Driving License No: 840307756 (Bahrain)  
Cell: +8801408337196  
e-mail: [engrsahed.bd@gmail.com](mailto:engrsahed.bd@gmail.com)

Father's Name: Mohammad Ali  
Mother's Name: Most. Sofia Khatun  
Vill: Palasuta  
P.O: Darora, Muradnagar, Cumilla.  
Bangladesh

## INTERESTS

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I am passionate about research and analysis focused on new innovations and technology-based developments. I regularly engage in reading journals, research-based articles, and contribute through social voluntary service in my community.

I have been honored to serve as the General Secretary and Vice-President of the Bangladesh Engineers' Association, Bahrain (BEAB). Since 2024, I have also been serving as the Member Secretary of DUETian.com (DUET Alumni), working to build strong alumni engagement. Additionally, I am a Life Fellow Member of the Institution of Engineers, Bangladesh (IEB), reflecting my long-standing professional commitment to engineering excellence.

## REFERENCES

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**Prof. Dr. Mohammed Alauddin**  
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e-mail: [st100132@gmail.com](mailto:st100132@gmail.com)

## CONFIDENCE

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I am an energetic, young, and dynamic individual with a pleasant personality and strong interpersonal skills. I am capable of working efficiently under pressure and take initiative to complete tasks with responsibility and integrity.

I also hereby declare that all the information provided is true to the best of my knowledge, and I take full responsibility for its accuracy.