



# GEM

**GEM Consultants Limited**

**ISO 9001: 2015, 14001: 2015 & 45001: 2018 Certified Company**  
**ISO/IEC 17020:2012 Certified under Bangladesh Accreditation Board**

## GEM Consultants Limited (GEM)

### Introduction

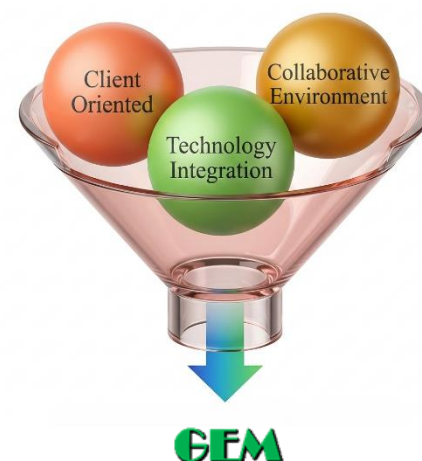
GEM Consultants Limited (GEM) was established in 2019 (Age of the Firm: 7 seven) as an Engineering Consulting Firm in Bangladesh with expertise in planning, project management and implementation. It provides end-to-end services to its clients in all sectors of development e.g., transport infrastructure, energy and natural resources, rural development, water management, environmental management, climate studies and urban utilities. It works by making Consortiums, Association or Joint Venture with local and foreign Consulting Engineering firms. It is registered under the **Asian Development Bank (Reg. No. 031842)**. The company is certified by **ISO 9001:2015 QMS (Quality Management System)** and also certified by **ISO 14001:2015 EMS (Environmental Management System)**, **ISO 45001:2018 OHSMS (Occupational Health and Safety Management System)** and **ISO/IEC 17020:2012 Certified under Bangladesh Accreditation Board**.

### General Information of the Firm

|                                               |                                                             |
|-----------------------------------------------|-------------------------------------------------------------|
| <b>Name of the Firm</b>                       | : <b>GEM Consultants Limited (GEM)</b>                      |
| <b>Age of the Firm</b>                        | : 7 (Seven) years                                           |
| <b>Head Office / Mailing Address</b>          | : House # 57/A, Road # 4/A, Dhanmondi, Dhaka -1209          |
| <b>Contact</b>                                | : +88 02-44613359, +880 1618-856831                         |
| <b>E-mail Address</b>                         | : infogem@gem.com.bd                                        |
| <b>Web Address</b>                            | : <a href="http://www.gem.com.bd">http://www.gem.com.bd</a> |
| <b>Constitution of the Firm</b>               | : Private Limited Company                                   |
| <b>Date of Establishment</b>                  | : March, 2019                                               |
| <b>Registration no. with Date &amp; Place</b> | : C150680/2019 Date: 14-03-2019, Dhaka                      |
| <b>Trade License Number</b>                   | : No. 211388 Year 2018-2019, Dhaka South City Corporation   |
| <b>Tax Identification Number (TIN)</b>        | : TIN 473613974848/Circle-288 (Companies)                   |
| <b>VAT Registration</b>                       | : No. 002421891-0208                                        |
| <b>ADB CMS No.</b>                            | : 031842                                                    |
| <b>Registration</b>                           | : Asian Development Bank (ADB), Reg. No. 031842             |
| <b>Representative Person</b>                  | : Engr. ATM Wahid Azhar                                     |
| <b>Designation</b>                            | : Chairman                                                  |

### Background of the Company

The client base of GEM consists of government, autonomous, private and international organizations. It assists the clients at various stages of project implementation starting from project conceptual studies to completion and everything in between; surveys and investigations, resettlement planning, feasibility study, design and documentation, procurement services, project management and monitoring, quality control and O&M services. GEM works closely with clients to manage and implement their projects and at the same time develop the capacity of the client's staff. It prepares tailor-made solutions to client's problems and collaboratively works with them to develop the best solution to a given problem.





GEM has a highly experienced pool of more than 450 experts and professionals in different fields. These achievements include a large number of assignments spread all over Bangladesh and abroad. The professional freelance consultants of GEM comprise Engineers of various disciplines, Project Management and Quality Assurance Experts, Designers, Irrigation Specialists, Hydrologists, Energy Specialists, Community Development Specialists, Financial Analysts, Sociologists, Economists, IT Specialists, Environmentalists, Architects etc.

GEM provides project conception, design and implementation assistance in all aspects of project management and technology solutions. Our clients include govt., semi-govt., autonomous bodies and international, multi and bilateral funding agencies. We help our clients realize their objectives by developing and delivering practical solutions, adding value to their services through the application of our experience, innovative thinking and state-of-the-art technology.

GEM is an ISO 9001-2015 certified company and maintains quality management system standards. As an ISO Certified Company, we mainly emphasize effective planning, operation and quality management system processes. With quality assurance, the company is better equipped and prepared to deliver at an even higher level.

Training and transfer of technology have become integral project components for most of the projects undertaken by the firm. GEM is trying to establish a relatively sound track record in the design and implementation of training programs with a particular focus on the development of the technical expertise of its staff.



## Area of the Expertise

### A. Transport Infrastructure

GEM becomes a partner when it comes to the development of transportation to improve the urban and rural services and to upgrade the infrastructural networks. GEM's services are diversified in the following fields: Transport Engineering, Air Quality Management, Roads and Highways, Bridges, Flyovers and Airport.

### Our Scope:

Our consultants can help in clarifying to find feasible solutions. Next, our technical and financial specialists prepare designs, cost estimates and support in applying proper tender procedures for the projects. Also, our engineers and other specialists are ready to



manage contracts and supervise the works, taking the responsibilities as the representative on-site including environmental activities.

#### **B. Water and National Environment**

Water Management, Irrigation, Environment: Environmental and feasibility studies, implementation of appropriate technologies and local knowledge, implementation assistance and performance monitoring.

##### **Our Scope:**

Water Supply, Water Distribution Network Modelling, Sanitation, Sewerage and Urban Drainage, Environmental Management, Wastewater Treatment, Climate Changes and Adaptations.

#### **C. Rural and Urban Infrastructure Services**

Water Supply and Treatment, Sewerage Systems: Network design, process design, computer modelling, detailed engineering and project implementation management.

##### **Our Scope:**

Rural Development, Urban and Regional Development, Physical Planning and Architecture: Architectural planning and design, feasibility study, detailed engineering and project implementation management.

##### **Fields of Activity:**

GEM has a diversified pool of local consultants with the following services for infrastructure projects starting from the initial concept planning and preliminary design through to construction supervision and assistance in management and maintenance.

- Rural Development and Connectivity: development impact studies, planning, design and implementation of rural infrastructure connectivity for sustainable economic development.
- Urban and Regional Regeneration: structure and master planning, detailed area planning, urban infrastructure planning and feasibility studies, detailed engineering and construction supervision with social and community development and environmental management.
- Power Sector Infrastructure: Studies, designs and implementations of transmission mains.

#### **D. Urban Transport**

Metro, Intelligent Transport System, Transport Network Modelling and Traffic Studies.

#### **E. Marine and River Transport**

Ports and Jetties, Inland Water and Marine Transport: Transport modelling, demand forecast studies, environmental and feasibility studies, detailed engineering and project management.

#### **F. Urban Habitat**

Township Development, Physical Planning and Architecture: Architectural planning and design.

#### **G. Power and Energy**

Power Generation, Transmission and Distribution, Renewable Energy, Sustainable Energy: Demand and supply side studies, technology option studies, detailed engineering and project management.

##### **Fields of Activity:**

Roads, Rail, Bridges, Airports, Tunnels and Viaducts, Feasibility studies, planning, detailed engineering, project implementation and management.

#### **H. Agriculture and Natural Resources**

##### **Our Scope:**

GEM is very capable to offers to provide highly skilled professional experts in Flood Control and Bank Protection, Drainage Improvement, Estuary Development, Irrigation and Agricultural Development, Participatory Water Resources Management, Capacity Building and Impact Assessment.

**Fields of Activity:**

Services include (a) Surveys, investigations and reconnaissance studies; (b) Project Identification; (c) Planning, Preliminary Designs, Techno-Economic Analysis and Feasibility Studies; (d) Detailed Design and Tender Document; (e) Construction Supervision and contract Management; (f) Management and Training Advice and (g) Monitoring and Evaluation.

**Completed Projects**

| Project Name                                                                                                                                                                                                             | Client                        | Funding Agency | Consortium                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|----------------------------|
| Program for Supporting Rural Bridges (SupRB), Crontract Package No. SD22-1: Dhaka Division                                                                                                                               | LGED                          | World Bank     | Eptisa - Aqua - GEM        |
| Consultancy Services for Impact Evaluation of Rehabilitation of the Ganges-Kobadak Irrigation Project (2nd Revised) (SR-8)                                                                                               | IMED_BWDB                     | GoB            | IRG - GEM                  |
| Consultancy service for Identification, Prioritization and Pre-Feasibility for PPP Project                                                                                                                               | RHD                           | GoB            | IRG - GEM                  |
| Consultancy Service to Conduct Detailed Feasibility Study on Establishing 21 (Twenty-One) Cultural Centers in the Name of 21 Bangladeshi Legends.                                                                        | Bangladesh Shilpokola Academy | GoB            | Design Lab Architect - GEM |
| Design and Drawing with Construction Supervision of 2 lanes Flyover as Extension Part of the Existing Flyover at Mohonpur Rail Crossing under the project “Integrated urban infrastructure development in Rajshahi City” | Rajshahi City Corporation     | GoB            | GEM                        |

**Ongoing Projects**

| Project Name                                                                                                                                                                                | Client                        | Funding Agency | Consortium                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|----------------------------------|
| Consultancy Services for the Project “Expansion of Chattogram Shah Amanat International Airport (Design Review)”                                                                            | CAAB                          | GoB            | ACP - DECON- GEM                 |
| Consulting Services for Road User Satisfaction Survey and Progress Assessment through Result Monitoring Framework for “Western Economic Corridor and Regional Enhancement (WeCARE) Program” | Roads and Highways Department | World Bank     | IRG – Rodic - GEM                |
| Design and Supervision of Construction works for widening the Barayerhat-Heanko-Ramgarh Road (R-151 & R-152) under Chattogram Road Division                                                 | Roads and Highways Department | GoB            | SARM – DEVCON & BETS - GEM       |
| Consultancy (CSC) Service for the "Widening of Road and Construction of Elevated Road from Panchaboti to Mukterpur Bridge"                                                                  | Bangladesh Bridge Authority   | GoB            | KUNHWA EnG Co., Ltd. - GEM & VCL |

|                                                                                                                                                             |                               |             |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|------------------|
| Consultancy services:"Development, Upgradation and Maintenance of Web-based Road Maintenance and Management System (RMMS) of Roads and Highways Department" | Roads and Highways Department | GoB         | Dream 71 - GEM   |
| Integrated Urban infrastructure Development in Rajshahi City (LOT-B)                                                                                        | Rajshahi City Corporation     | GoB         | SARM - DPM - GEM |
| Integrated Urban infrastructure Development in Rajshahi City (LOT-C)                                                                                        | Rajshahi City Corporation     | GoB         | DPM - SARM - GEM |
| Climate Change-Adapted Urban Development Programme (CCAUD) - CCAUD Phase II – Khulna                                                                        | Khulna City Corporation (KCC) | "KfW & GoB" | Hydroplan - GEM  |

### Major Clients and International Associates



GoB



ADB



World Bank



JICA



RHD



BBA



CAA



RCC



KDA



Bangladesh  
Army



Mongla Port  
Authority



BSA

## Organogram of GEM



## Management and Administrative Strength

GEM is committed to enhancing the managerial and technical capabilities by hiring qualified professionals and implementing efficient operational systems. Our management assesses skills in areas such as future event anticipation, recruitment, personal development and strategic outlook. This comprehensive approach ensures that we are well-equipped to navigate career transitions and achieve our organizational goals. Our focus on continuous improvement strengthens our overall effectiveness.

GEM Consultants Ltd. is dedicated to exceptional project management through precise processes and concrete planning. Our integrated consultancy and monitoring systems ensure smooth execution and timely completion, optimizing resource use while maintaining high-quality standards. Each project is managed using a proper schedule with daily reviews and meetings to track critical activities. This proactive approach helps us to avoid bottlenecks and delays. Our team's competence and sincerity are evident in every aspect of our projects.



| Name and Qualification of Management                                                                                                            | Designation | Years of Experience |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------|
| <b>Engr. ATM Wahid Azhar</b><br>B. Sc. in Civil Engineering<br>Former Chief Engineer of Khulna Development Authority (KDA)                      | Chairman    | 39                  |
| <b>Engr. K. M. Nazmul Haque</b><br>B.Sc. in Civil Engineering<br>Former Chief Engineer of Bangladesh Water Development Board                    | Advisor     | 45                  |
| <b>Engr. Rezaul Mustafa Ashafuddula</b><br>B.Sc. in Civil Engineering<br>Former Additional Chief Engineer of Bangladesh Water Development Board | Advisor     | 37                  |
| <b>Engr. Wakeel Alam</b><br>Master of Engineering in Civil Engineering (Australia)<br>B.Sc. in Civil Engineering                                | Director    | 10                  |

### Staff Resources

At GEM, our diverse team of experts brings extensive knowledge across various sectors, fostering a collaborative environment with management, senior consultants, associates, and junior professionals. We prioritize continuous development through training and knowledge sharing, believing that a diverse team enhances innovation and problem-solving. This commitment ultimately provides exceptional value to our clients.





### Team of Experts of GEM Consultants Limited

| No  | Name                       | Position/Expertise                | Academic Degree                                                                                                                                                                                                                                                                    | Total Experience (years) | Status With the Firm |
|-----|----------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|
| 1.  | Engr. ATM Wahid Azhar      | Chairman                          | B. Sc in Civil Engineering                                                                                                                                                                                                                                                         | 39                       | S                    |
| 2.  | K. M. Nazmul Haque         | Advisor                           | B. Sc in Civil Engineering                                                                                                                                                                                                                                                         | 42                       | C                    |
| 3.  | Md. Shamsul Alam Talukder  | Advisor, Hydrologist              | B. Sc in Civil Engineering                                                                                                                                                                                                                                                         | 48                       | C                    |
| 4.  | Rezaul Mustafa Ashafuddula | Advisor                           | B. Sc in Civil Engineering                                                                                                                                                                                                                                                         | 37                       | C                    |
| 5.  | Wakeel Alam                | Director                          | Masters of Engineering in Civil Engineering (Australia)<br>B. Sc in Civil Engineering                                                                                                                                                                                              | 10                       | S                    |
| 6.  | Mohammad Abdul Ahad        | Resident Engineer                 | B. Sc in Civil Engineering                                                                                                                                                                                                                                                         | 38                       | C                    |
| 7.  | Soresh Chandra Biswas      | Office Manager                    | B.Sc. & M.Sc. in Physics                                                                                                                                                                                                                                                           | 32                       | S                    |
| 8.  | Dr M.A. Monayem            | Highway Engineer                  | Ph.D., M. Sc and B. Sc in Civil Engineering, Specialization in Transportation / Railway Engineering                                                                                                                                                                                | 33                       | A                    |
| 9.  | Dr Md Kamruzzaman          | Structural Engineer (Bridge)      | Doctor of Philosophy in Civil Engineering, Kharkiv Automobile Highway Institute, Former USSR<br>Master of Science in Civil Engineering with Honours (Bachelor of Science in Engineering, included, not individually specified) Kharkiv Automobile Highway Institute, Ukraine, USSR | 43                       | A                    |
| 10. | Chandan Kumar Karmaker     | Architect                         | Bachelor in Architecture                                                                                                                                                                                                                                                           | 33                       | C                    |
| 11. | Dr Quazi Alamgir Kabir     | Environmental Specialist          | Ph.D., M.Sc. and B.Sc. in Geography and Environmental Science                                                                                                                                                                                                                      | 31                       | C                    |
| 12. | Anil Krishna Biswas        | Electrical Engineer               | B. Sc in Electrical and Electronic Engineering                                                                                                                                                                                                                                     | 39                       | C                    |
| 13. | MD. Zoynal Abedin          | Geo Technical Engineer            | B. Sc in Civil Engineering                                                                                                                                                                                                                                                         | 37                       | C                    |
| 14. | Sushanta Kumar Mallick     | Geo Technical Engineer            | B. Sc in Civil Engineering                                                                                                                                                                                                                                                         | 30                       | C                    |
| 15. | Abdullah                   | Highway Engineer                  | B. Sc & M.Sc. in Civil Engineering                                                                                                                                                                                                                                                 | 31                       | C                    |
| 16. | Sarker Md. Shahjahan Ali   | Resident Engineer                 | B. Sc in Civil Engineering                                                                                                                                                                                                                                                         | 43                       | C                    |
| 17. | A.H.M.M. Gahangir Alam     | Social Expert                     | MSS and BSS in Politics and Public Administration                                                                                                                                                                                                                                  | 25                       | A                    |
| 18. | Md. Aktarul Islam Khan     | Social Expert/Resettlement Expert | PGD in Land Acquisition, Resettlement and                                                                                                                                                                                                                                          | 39                       | A                    |

| No  | Name                     | Position/Expertise                      | Academic Degree                                                                                         | Total Experience (years) | Status With the Firm |
|-----|--------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------|----------------------|
|     |                          |                                         | Rehabilitation<br>MA and BA in Social work                                                              |                          |                      |
| 19. | Md. Afil Uddin           | Contract Specialist                     | M.Sc. in Structural (Bridge) Engineering,<br>Surrey University, London, UK<br>B.Sc. Engineering (Civil) | 40                       | C                    |
| 20. | Md. Abul Kashem          | Financial Expert                        | MSS and BSS in Economics                                                                                | 40                       | C                    |
| 21. | Md. Zahangir Alam        | Quantity Surveyor                       | B. Sc. Engineering (Civil)                                                                              | 25                       | C                    |
| 22. | Md. Shafiur Rahman       | Supervision Engineer                    | B. Sc. Engineering (Civil)                                                                              | 16                       | S                    |
| 23. | K M Shamsul Alam         | Material and Quality Control Engineer   | B. Sc. Engineering (Civil)                                                                              | 33                       | S                    |
| 24. | Md. Akhinur Rahman       | Supervision Engineer                    | B. Sc. Engineering (Civil)                                                                              | 18                       | S                    |
| 25. | Sandid Ul Islam          | Supervision Engineer                    | M.Sc. in Sustainable Water Management<br>B. Sc. Engineering (Civil)                                     | 16                       | S                    |
| 26. | Md. Shariful Hasan Khan  | Jr. Supervision Engineer                | B. Sc. Engineering (Civil)                                                                              | 18                       | S                    |
| 27. | Md. Mustafezur Rahaman   | Environmental Specialist                | B.Sc. & M.Sc. in Environmental Science                                                                  | 8                        | A                    |
| 28. | Faria Akter              | Office cum Environmental Engineer       | B.Sc. in Electrical and Electronics Engineering<br>M.Sc. in Environmental Science                       | 5                        | S                    |
| 29. | Mostafa Al Imran         | Environmental Specialist                | B.Sc. & M.Sc. in Environmental Science                                                                  | 5                        | S                    |
| 30. | Md Ashikul Islam         | Executive, Business Development         | B. Sc in Civil Engineering                                                                              | 8                        | S                    |
| 31. | Khalid Mahmud Khan       | Business Development Engineer           | B. Sc in Civil Engineering                                                                              | 3                        | S                    |
| 32. | Md. Asadur Rahman Shawon | Junior Expert (Environment & Admin)     | B.Sc. & M.Sc. in Environmental Science & Disaster Management                                            | 3                        | S                    |
| 33. | Rizwan Ahmmmed           | Deputy Environmental Management Officer | B.Sc. & M.Sc. in Environmental Science                                                                  | 1.5                      | S                    |
| 34. | Md. Akhter Hossain       | Deputy Environmental Management Officer | B.Sc. & M.Sc. in Environmental Science                                                                  | 1                        | S                    |
| 35. | Abu Sayed Al Helal       | Deputy Environmental Management Officer | B.Sc. & M.Sc. in Environmental Science                                                                  | 4                        | S                    |
| 36. | Syeda Anika Nawar Roomy  | Deputy Environmental Management Officer | B.Sc. & M.Sc. in Environmental Science                                                                  | 3.5                      | S                    |
| 37. | Md. Saidur Rahman        | Quality Control Engineer                | B. Sc in Civil Engineering                                                                              | 21                       | A                    |
| 38. | Md. Imran Kayesh         | Bridge Engineer                         | B. Sc in Civil Engineering                                                                              | 10                       | A                    |
| 39. | Md. Ferdaus Jahan        | Assistant Manager (Fin. and Acc.)       | B. Com (Accounting) and MBA (Finance)                                                                   | 11                       | A                    |
| 40. | Sabura Khatun            | Accounts                                | BSS, MSS (Management)                                                                                   | 5                        | A                    |

| No  | Name                              | Position/Expertise                 | Academic Degree                                     | Total Experience (years) | Status With the Firm |
|-----|-----------------------------------|------------------------------------|-----------------------------------------------------|--------------------------|----------------------|
| 41. | Md. Mustafizur Rahman             | Environment Specialist             | B.Sc. and M.Sc. Engineering (Environmental Science) | 8                        | A                    |
| 42. | Monyruzzaman Sarker               | Supervision Engineer               | B. Sc in Civil Engineering                          | 25                       | A                    |
| 43. | Ahnaf Tazwar Badhan               | Civil Engineer                     | B. Sc in Civil Engineering                          | 5                        | A                    |
| 44. | Md. Mofezur Rahman                | Senior Surveyor                    | Civil Engineer (Diploma)                            | 20                       | A                    |
| 45. | Bablu Miah                        | Surveyor                           | Diploma (Civil)                                     | 14                       | A                    |
| 46. | Md. Khaleduzzaman                 | Electrical and Mechanical Engineer | B. Sc in Mechanical Engineering                     | 9                        | A                    |
| 47. | Md. Mahbubur Rahman Bhuiyan       | Work Supervisor                    | Civil Engineer (Diploma)                            | 35                       | S                    |
| 48. | Mohammad Ali Pappu                | Work Supervisor                    | Civil Engineer (Diploma)                            | 17                       | A                    |
| 49. | Polash Chandra Das                | Work supervisor                    | Civil Engineer (Diploma)                            | 12                       | A                    |
| 50. | Md. Al Rajin                      | Work Supervisor                    | Civil Engineer (Diploma)                            | 8                        | A                    |
| 51. | Shafiqul Islam                    | Work Supervisor                    | Civil Engineer (Diploma)                            | 6                        | A                    |
| 52. | Saiful Islam                      | Work Supervisor                    | Civil Engineer (Diploma)                            | 4                        | A                    |
| 53. | Junaed Rahbar Anondo              | Work Supervisor                    | Civil Engineer (Diploma)                            | 4                        | A                    |
| 54. | Anirudha Chakraborti Sumit        | Work Supervisor                    | Civil Engineer (Diploma)                            | 4                        | S                    |
| 55. | Khorshad Alam                     | Lab Technician                     | Civil Engineer (Diploma)                            | 6                        | A                    |
| 56. | Masum Ahmed                       | Lab Technician                     | BSS (Political Science and Publication)             | 18                       | A                    |
| 57. | Md. Parvez Sultan Mahmud (Polash) | Work Supervisor                    | Civil Engineer (Diploma)                            | 7                        | S                    |
| 58. | Md. Belayed Hossain               | Lab Technician                     | BSC in Civil Engineering                            | 8                        | S                    |
| 59. | Md. Salim Ullah                   | Lab Technician                     | Bachelor of Arts BA                                 | 24                       | S                    |
| 60. | Md. Abdur Razzak                  | Lab Technician                     | Diploma in Civil Engineering                        | 36                       | S                    |
| 61. | Abdur Rahman                      | Lab Technician                     | HSC (Business)                                      | 19                       | A                    |
| 62. | Asma Akter                        | CAD Operator                       | Diploma (Civil)                                     | 15                       | A                    |
| 63. | Selim Reza                        | CAD Operator                       | B. Sc in Civil, Diploma (Civil)                     | 7                        | A                    |
| 64. | Md. Mizanur Rahman                | CAD Operator                       | Diploma (Architecture)                              | 5                        | A                    |

S = Salaried

A = Associates

C = Consultant

## Support Services, Office Space and Logistics

### Drone UAV Mapping & Infrastructure Survey Services

GEM Consultants Limited provides high-precision Drone UAV Mapping and Infrastructure Survey Services to support modern engineering, infrastructure planning, and project management. Leveraging state-of-the-art aerial technology, including the DJI Mavic 3 equipped with a 20 MP Hasselblad camera, we deliver highly accurate aerial data tailored to meet the stringent requirements of national and international agencies. Our drone survey solutions are optimized for road planning, feasibility studies, GIS mapping, construction monitoring, and stakeholder presentations across various sectors, including Roads, Highways, Bypass Planning, Utilities, and Feasibility Studies.

#### Service Types We Provide

We deliver a comprehensive suite of aerial intelligence and mapping products to ensure precision at every stage of a project:

- **Orthophoto Mapping:** High-resolution aerial maps meticulously corrected for terrain variations and perspective distortion.
- **Ortho mosaic Maps:** Seamless, large-scale project-area mapping ideal for roads, land parcels, utilities, and regional planning.
- **Digital Surface Model (DSM):** Detailed DSM outputs to support topography analysis, drainage assessment, slope grades, and embankment design.
- **Point Cloud / 3D Model:** Highly detailed spatial and volumetric outputs for engineering visualization, structural inspection, and precise measurement.
- **Road Alignment Video:** Dynamic, high-definition alignment visualizations tailored for route review, environmental assessments, and stakeholder meetings.
- **GIS-Ready Outputs:** Fully geo-referenced files formatted for seamless ArcGIS and CAD integration, enabling advanced spatial analysis.

### Photographs of Drone Survey





## Environmental Services

GEM Consultants Limited provides various environment-related services like Site Specific Environmental Management Plan (SSEMP), Monthly-quarterly report preparation, stakeholder consultation, environmental testing (e.g., air quality and noise level monitoring), water, vibration, soil and sediment sample collection and preparation for testing. We conducted environmental tests for government and private projects that are funded by ADB, JICA, GoB, World Bank etc.

### List of Testing Equipment for Environmental Services



**Smart Sensor Sound Level Meter**



**Oceanus Air Quality Monitoring Machine**



**Smart Sensor Portable Vibration Meter AS63A**



**Van Veen Grab Sediment Sampler**



**PH/EC/ORP/Temperature meter**



**Vibration Meter - HTC VB-8205**



**Dissolved Oxygen Meter**



**TDS/Salinity Meter**

## Major Projects

- Dhaka–Sylhet Corridor Road Investment Project (Packages: 3, 4, 5 and 10).
- Cross Border Road Network Improvement Project, Package-A2 (CBRNIP-A2) under RHD.
- Rural Connectivity Improvement Project (RCIP), Package- 44©/RCIP/JSR Under LGED.
- Improving Urban Governance and Infrastructure Program (IUGIP) under LGED.
- Coastal Embankment Improvement Project, Phase II Under BWDB.
- Program for Supporting Rural Bridges Under LGED.

### Photographs of Environmental Services



**Air Quality and Noise  
Level Monitoring**

**Our Environmental  
Specialist with the  
Consultant**

**Groundwater Sampling**

**Vibration Test**

**Office Address:** House # 57/A, Road # 4/A, Flat: 1<sup>st</sup> Floor (left), Dhanmondi, Dhaka-1209, Bangladesh

**Office Space:** 2200 square feet

| Hardware Facilities                      |                                           |                                |      |           |
|------------------------------------------|-------------------------------------------|--------------------------------|------|-----------|
| SL                                       | Particulars                               | Brand                          | Year | Condition |
| ➤ Computer and Laptop                    |                                           |                                |      |           |
| 1.                                       | Desktop Computer                          | Samsung                        | 2023 | Good      |
| 2.                                       | Desktop Computer                          | Samsung                        | 2022 | Good      |
| 3.                                       | Desktop Computer                          | Samsung                        | 2022 | Good      |
| 4.                                       | Desktop Computer                          | Lenovo                         | 2017 | Good      |
| 5.                                       | Desktop Computer                          | Lenovo                         | 2017 | Good      |
| 6.                                       | Desktop Computer                          | Lenovo                         | 2017 | Good      |
| 7.                                       | Desktop Computer                          | Lenovo                         | 2017 | Good      |
| 8.                                       | Laptop Computer                           | HP                             | 2017 | Good      |
| 9.                                       | Laptop Computer                           | HP                             | 2017 | Good      |
| 10.                                      | Laptop Computer                           | Lenovo                         | 2017 | Good      |
| 11.                                      | Laptop Computer                           | Dell                           | 2017 | Good      |
| 12.                                      | Laptop Computer                           | Dell                           | 2017 | Good      |
| ➤ Printer, Photocopy Machine and Scanner |                                           |                                |      |           |
| 1.                                       | Printer Cum Scanner                       | Brothers Printer               | 2017 | Good      |
| 2.                                       | Photocopy Machine Cum Scanner             | HP                             | 2017 | Good      |
| 3.                                       | Photocopy Machine Cum Scanner Cum Printer | Canon                          | 2022 | Good      |
| Software Facilities                      |                                           |                                |      |           |
| SL                                       | Software Name                             | Specification and Purpose      |      |           |
| 1.                                       | Auto CAD                                  | Design and Drawing             |      |           |
| 2.                                       | STAAD                                     | Design and Structural Analysis |      |           |
| 3.                                       | PIT-W                                     | Pile Integrity Testing         |      |           |
| 4.                                       | HTC Noise Level Meter Software            | Noise Level Measuring          |      |           |
| 5.                                       | HTC RS232                                 | Vibration Level Measuring      |      |           |
| 6.                                       | Adobe Softwares                           | Simulation                     |      |           |

|                                           |                                          |                                              |      |           |
|-------------------------------------------|------------------------------------------|----------------------------------------------|------|-----------|
| 7.                                        | Google Earth                             | Visualization, Assessment of Geospatial Data |      |           |
| 8.                                        | SPSS                                     | Data Analysis                                |      |           |
| Testing Equipment                         |                                          |                                              |      |           |
| SL                                        | Particulars                              | Brand                                        | Year | Condition |
| ➤ Environmental Quality Testing Equipment |                                          |                                              |      |           |
| 1.                                        | Air Quality and Noise Monitoring Machine | Ocenus AQM-09                                | 2018 | Good      |
| 2.                                        | Noise Monitoring Machine                 | HTC SL-1352                                  | 2023 | Good      |
| 3.                                        | Vibration Meter                          | HTC VB-8205                                  | 2023 | Good      |
| 4.                                        | PH/EC/ORP/Temperature meter              | PHS-26C Bench                                | 2026 | Good      |
| 5.                                        | Dissolved Oxygen Meter                   | Lutron DO-5509                               | 2026 | Good      |
| 6.                                        | TDS/Salinity Meter                       | 8373 AZ Digital TDS and Salinity Pen         | 2026 | Good      |
| ➤ Survey Equipment                        |                                          |                                              |      |           |
| 1.                                        | Total Station Set                        | Sokkia                                       | 2017 | Good      |
| 2.                                        | Level Machine                            | Sokkia                                       | 2018 | Good      |
| 3.                                        | Hand GPS                                 | Garmin                                       | 2018 | Good      |
| 4.                                        | Drone                                    | DJI Mavic 3                                  | 2022 | Good      |
| 5.                                        | RTK                                      | Kolida                                       | 2017 | Good      |
| Vehicles                                  |                                          |                                              |      |           |
| SL                                        | Particulars                              | Brand                                        | Year | Condition |
| 1.                                        | Car                                      | Rush (Toyota)                                | 2014 | Good      |
| 2.                                        | Car                                      | Saloon (Toyota)                              | 2014 | Good      |
| 3.                                        | Car                                      | Honda (Vezel)                                | 2012 | Good      |
| 4.                                        | Pickup                                   | Pickup (Toyota)                              | 2008 | Good      |
| 5.                                        | Car                                      | Probox (Toyota)                              | 2004 | Good      |





**GEM Team Members**



**Conversations with project consultants**



**Agreement Signing**



**Discussion with Foreign Partners**



**Environmental Specialist with the Consultant**



**Field Visit with Expert**

## **Certifications**



# Certificate of Registration

## ISO 9001:2015

This is to Certify that  
Quality Management System of

### GEM CONSULTANTS LIMITED

HOUSE: 57/A, ROAD: 4/A, FLAT: 1ST FLOOR (LEFT), DHANMONDI, DHAKA - 1205,  
BANGLADESH.

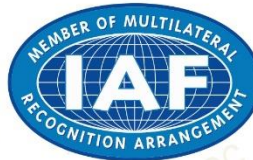
has been assessed and found to conform to the requirements of  
**ISO 9001:2015**  
for the following scope :

ENGINEERING CONSULTANCY, PLANNING & PROJECT MANAGEMENT; ENGINEERING &  
ENVIRONMENTAL ASSESSMENT; ENVIRONMENTAL MONITORING, TESTING &  
INSPECTION.

|                           |              |               |              |
|---------------------------|--------------|---------------|--------------|
| Certificate No            | : 25EQOA15   | Issuance Date | : 29/01/2025 |
| Initial Registration Date | : 29/01/2025 |               |              |
| Date of Expiry            | : 28/01/2028 |               |              |
| 1st Surv. Due             | : 29/12/2025 | 2nd Surv. Due | : 29/12/2026 |



Director



(Scan to Verify)

Certificate Verification: The Certification Validity can be checked at [www.aqcworld.com](http://www.aqcworld.com) at Clients Directory.  
Certificate is the property of Assurance Quality Certification LLC (AQC) located at Sharjah Media City, SHAMS, Sharjah, UAE.  
Email: [info@aqcworld.com](mailto:info@aqcworld.com) and shall be returned immediately when demanded.  
\*Validity of the Certificate is subject to successful completion of surveillance audit on or before of due date.

# Certificate of Registration

## ISO 14001:2015

This is to Certify that  
Environmental Management System of  
**GEM CONSULTANTS LIMITED**

HOUSE: 57/A, ROAD: 4/A, FLAT: 1ST FLOOR (LEFT), DHANMONDI, DHAKA - 1205,  
BANGLADESH.

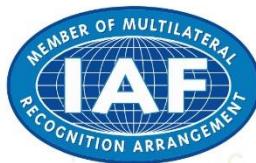
has been assessed and found to conform to the requirements of  
**ISO 14001:2015**  
for the following scope :

ENGINEERING CONSULTANCY, PLANNING & PROJECT MANAGEMENT; ENGINEERING &  
ENVIRONMENTAL ASSESSMENT; ENVIRONMENTAL MONITORING, TESTING &  
INSPECTION.

|                           |              |               |              |
|---------------------------|--------------|---------------|--------------|
| Certificate No            | : 25EEOG10   |               |              |
| Initial Registration Date | : 29/01/2025 | Issuance Date | : 29/01/2025 |
| Date of Expiry            | : 28/01/2028 |               |              |
| 1st Surv. Due             | : 29/12/2025 | 2nd Surv. Due | : 29/12/2026 |



**Director**



(Scan to Verify)

Certificate Verification: The Certification Validity can be checked at [www.aqcworld.com](http://www.aqcworld.com) at Clients Directory.  
Certificate is the property of Assurance Quality Certification LLC (AQC) located at Sharjah Media City, SHAMS, Sharjah, UAE.  
Email: [info@aqcworld.com](mailto:info@aqcworld.com) and shall be returned immediately when demanded.  
\*Validity of the Certificate is subject to successful completion of surveillance audit on or before of due date.

# Certificate of Registration

This is to Certify that  
Occupational Health & Safety Management System of  
**GEM CONSULTANTS LIMITED**  
HOUSE: 57/A, ROAD: 4/A, FLAT: 1ST FLOOR (LEFT), DHANMONDI, DHAKA - 1205,  
BANGLADESH.

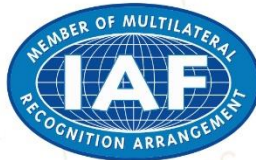
has been assessed and found to conform to the requirements of  
**ISO 45001:2018**  
for the following scope :

ENGINEERING CONSULTANCY, PLANNING & PROJECT MANAGEMENT; ENGINEERING &  
ENVIRONMENTAL ASSESSMENT; ENVIRONMENTAL MONITORING, TESTING &  
INSPECTION.

Certificate No : **25E00Q12**  
Initial Registration Date : 29/01/2025 Issuance Date : 29/01/2025  
Date of Expiry : 28/01/2028  
1st Surv. Due : 29/12/2025 2nd Surv. Due : 29/12/2026



**Director**



(Scan to Verify)

Certificate Verification: The Certification Validity can be checked at [www.aqcworld.com](http://www.aqcworld.com) at Clients Directory.  
Certificate is the property of Assurance Quality Certification LLC (AQC) located at Sharjah Media City, SHAMS, Sharjah, UAE.  
Email: [info@aqcworld.com](mailto:info@aqcworld.com) and shall be returned immediately when demanded.  
\*Validity of the Certificate is subject to successful completion of surveillance audit on or before of due date.





# ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006  
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

**GEM Consultants Limited**

**House#57/A, Road#4/A, Dhanmondi**

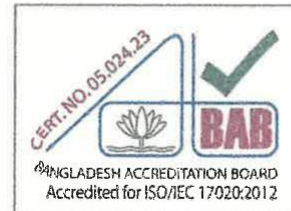
**Dhaka-1209, Bangladesh**

This is to certify that this  
**Inspection Body(Type-A)**

is accredited in accordance with the international standard  
**ISO/IEC 17020:2012**

in respect of the associated scope, subject to the terms and  
conditions governing the relevant conformity assessment  
body (CAB) accreditation.

Certificate Number : **05.024.23**  
Accreditation Date : **26 June 2023**  
Date of Issuance : **26 June 2023**  
Date of Expiration : **25 June 2026**



  
**Md. Monwarul Islam**  
**Director General**

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific  
scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.