

MD SAZIDUR RAHMAN

Environmental Engineer | Environmental Researcher

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SUMMARY

Entry-level environmental engineer with research experience in wastewater treatment, effluent monitoring, water quality analysis, and environmental laboratory testing. Skilled in conventional water parameter testing, chemical dosage optimization, technical reporting, and treatment performance evaluation. Familiar with effluent treatment plant operations and industrial effluent compliance requirements. Seeking to contribute to environmental research and ETP optimization in Bangladesh.

EXPERIENCE

Research Assistant, IsDB Funded Project

Nov 2023 – Dec 2023

International Islamic University Malaysia, Malaysia

- Conducted environmental engineering experiments involving wastewater sample preparation and treatment performance evaluation.
- Performed conventional water quality testing including turbidity and pH analysis.
- Conducted jar tests to optimize coagulant and flocculant dosage for wastewater treatment.
- Maintained experimental data logs and prepared technical progress reports.
- Assisted in equipment calibration and laboratory quality control.

PROJECTS

MSc Thesis: Enhancing Biohydrogen Yield through Enzymatic Pretreatment of Palm Oil Mill Effluent in Anaerobic Process

Oct 2023 – Aug 2026

International Islamic University Malaysia

- Conducted laboratory-scale treatment of Palm Oil Mill Effluent (POME).
- Coordinated sample collection for wastewater treatment projects over 18 months, utilizing sterile techniques and laboratory protocols.
- Monitored COD, BOD, pH, and total solids during treatment.
- Operated anaerobic reactors and evaluated treatment efficiency.
- Optimized process conditions using response surface methodology.
- Conducted NPK testing of the digested sludge.
- Defended the thesis (viva voce) in April 2026 and submitted the final thesis in August 2026.

BSc Thesis: Impact of COVID-19 on the Travel Behavior of Dhaka City Dwellers

Sept 2021 – Feb 2022

East West University

- Collected and cleaned survey data from 1,217 respondents.
- Performed data analysis in Excel and RStudio.
- Supported statistical analysis for transport planning insights.

EDUCATION

Master of Science in Civil Engineering

09/2026

International Islamic University Malaysia, Malaysia

- Thesis Title: Enhancing Biohydrogen Yield through Enzymatic Pretreatment of Palm Oil Mill Effluent in Anaerobic Process.
- Thesis defended (viva voce) April 2026; final thesis submitted August 2026; graduation requirements confirmed 22 September 2026.

Bachelor of Science in Civil Engineering

04/2022

East West University, Dhaka, Bangladesh

- Thesis Title: Impact of COVID-19 on the Travel Behavior of Dhaka City Dwellers.

Higher Secondary Certificate

08/2017

Govt. Ashek Mahmud College, Jamalpur, Bangladesh

Secondary School Certificate

01/2015

Jamalpur Zilla School, Jamalpur, Bangladesh

AWARDS & HONORS

Silver Medal, Enhancing Biohydrogen Yield Through Enzymatic Pretreatment of Palm Oil Mill Effluent Using Anaerobic Dark Fermentation

Oct 2025

Kulliyyah of Engineering Research, Innovation and Commercialization Exhibition (KERICE 2025), Kulliyyah of Engineering, IIUM

PUBLICATIONS

- “Optimisation of Biogas Yield through Enzymatic Pretreatment of Wastewater.” Chemical and Natural Resources Engineering Journal, June 2025.

CONFERENCE PRESENTATIONS

- International Presenter, 2nd International Conference on Civil Engineering for Sustainability and Disaster Resilience (ICCESDiRe’24), Gombak, Malaysia, August 2024.
- International Presenter, International Conference on Engineering and Technologies for Sustainable Development (ICETSD 2024), Nilai, Malaysia, August 2024.

SKILLS

- Wastewater characterization (COD, BOD, TSS, TS, pH, turbidity).
- Effluent monitoring and treatment performance evaluation.
- Jar test, coagulation, flocculation, sludge analysis, chemical dosage optimization.
- Anaerobic digestion and biohydrogen research.
- Technical reporting and data logging.
- Software: Microsoft Excel, AutoCAD, Design-Expert, QGIS, R, Python.
- Languages: Bangla (Native), English (Professional Working Proficiency).