

Abu Bakar Siddique, MS

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Current Role

ENV Water Chemistry Solution

Environmental Chemist

2025 – Present

Leadership Positions

Clean Water Help Public Charity

Lead Arsenic and Heavy Metals Scientist

2025 – Present

Visayas State University

Graduate Students' Society Representative

2023 – 2025

Organization of Soil Science Representative

2023 – 2025

Jashore University of Science and Technology

Secretary, Rotary Club

2018 – 2019

Red Crescent Youth Representative

2017 – 2019

Education

Tropical Ecology, MS (Minor is Soil Science)

2023 – 2025

Visayas State University, Philippines

Environmental Science, MS

2022 – 2023

Jashore University of Science and Technology, Bangladesh

Environmental Science, BS

2016 – 2020

Jashore University of Science and Technology, Bangladesh

Previous Professional Experience

Asia Arsenic Network, Bangladesh

Research Assistant

2021 – 2023

- Monitoring, analysis, and assessment of environmental samples (water, soil, sediment)
- Analytical documentation and data quality control
- Drinking water contamination field kit development for Arsenic, iron and E-Coli

Publications

Siddique, A.B., Rahman, M.A., Gazi, E., Khan, A.S., Habiba, U., & Al Helal, A.S. (In review).

Groundwater Quality Assessment and Human Health Risk Evaluation of Drinking Water Sources in Kaliganj Municipality, Bangladesh. *Hydroresearch*.

<http://dx.doi.org/10.2139/ssrn.4970786>

Siddique, A.B., Al Helal, A.S., Rahman, M.A., Catalvas, L.P., Milleza, D.R.T., & Asio, V.B. (In review). Water quality, health risk evaluation, and potential contaminants source identification in the campus of Visayas State University, Leyte, Philippines. *The Palwan Scientist*.

Shaibur, M.R., **Siddique, A.B.**, Al Helal, A.S., Al Maruf, A., Arpon, S.H., Akter, S., & Ambade, B. (In review). Solid waste management in the urban community of a developing country: an overview 5Rs strategies. *World Development Sustainability*

Siddique, A.B., Al Helal, A.S., Patindol, T.A., Lumanao, D.M., Longatang, K.J.G., Rahman, M.A., ... & Shaibur, M.R. (2025). Assessment of Heavy Metal Contamination and Ecological Risk in Urban River Sediments: A Case Study from Leyte, Philippines. *Pollutants*, 5(1), <https://doi.org/10.3390/pollutants5010007>.

Siddique, A.B., Islam, M., Al Maruf, A., Al Helal, A.S., & Howlader, M. (2025). Spatial distribution of soil organic carbon and nutrients in the southern Sundarbans of Bangladesh. *Watershed Ecology and the Environment*. <https://doi.org/10.1016/j.wsee.2025.03.005>.

Al Helal, A.S., **Siddique, A.B.**, Patindol, T.A., Lumanao, D.M., Longatang, K.J.G., Tulin, A.B., & Shaibur, M.R. (2025). Microplastic Abundance, Characteristics and Associated Ecological Risk Assessment in the Selected Coastal Areas of Baybay City, Leyte, Philippines. *Regional Studies in Marine Science*, 87, 10246. <https://doi.org/10.1016/j.rsma.2025.104246>

Shaibur, M.R., Al Helal, A.S., **Siddique, A.B.**, Husain, H., Khan, M.W., Sarwar, S., ... & Sakib, M.N. (2025). Cow dung management, biogas production and the uses of bio-slurry for sustainable agriculture. *Cleaner Waste Systems*, 10, 100201. <https://doi.org/10.1016/j.clwas.2024.100201>

Uddin, S.K., **Siddique, A.B.**, Chatterjee, C.K., Rahut, R., Maruf, A.S. (2025). Seasonal variation of aquatic flora and faunal diversity and physicochemical characteristics of Bhairab River water, Jashore, Bangladesh. *Journal of aquatic research and sustainability*, 2(2): 22-29. <https://doi.org/10.69517/jars.2025.02.02.0004>

Al Helal, A.S., **Siddique, A.B.**, Dador, M., Asio, & V.B. (2025). The Abundance and Characteristics of Microplastics in the Slected Coastal Area of Pangasugan, Baybay City, Leyte, Philippines. *Recoletos Multidisciplinary Research Journal*.

Hossain, M.S., Nahar, N., Shaibur, M.R., Bhuiyan, M.T., **Siddique, A.B.**, Al Maruf, A., & Khan, A.S. (2024). Hydro-chemical characteristics and groundwater quality evaluation in south-western region of Bangladesh: A GIS-based approach and multivariate analyses. *Heliyon*, 10(1). <https://doi.org/10.1016/j.heliyon.2024.e24011>

Conference Abstract/Poster Presentation

(2025) **Siddique, A.B.**, Helal, A.S.A., Tasnim, N., Islam, M. Spatial Distribution of Surface Soil Organic Carbon and Nutrients in the Southern Sundarbans of Bangladesh in Response to Changes in Salinity and pH.

Agri-Life and Bioresources Sciences: Collaborative Innovations for a Resilient Future

(2025) Helal, A.S.A., **Siddique, A.B.**, Asio, V.B., Dador, M.
Spatial Distribution and Characteristics of Microplastics in the Beach Waters of Pangasugan,
Leyte, Philippines: An FTIR Based Investigation.
Agri-Life and Bioresources Sciences: Collaborative Innovations for a Resilient Future

(2023) **Siddique, A.B.**, Bhuiyan, T., Maruf, A.A., Ali, A. Nahar, N.
Water Quality Index and Health Risk Assessment in the Sharsa Upazila of Jashore District,
Bangladesh.
9th International Conference on Water and Flood Management (ICWFM)

COMPUTER AND ANALYTICAL SKILLS

Software: ArcGIS, SPSS, JASP, Rise, SAS, Microsoft Office
Programming Language: R

RESEARCH GRANTS AND RELEVANT AWARDS

Visayas State University, Philippines	
Graduate Fellowship Award	2023 - 2025
Academic Excellence Award Dean's List	2024
Academic Excellence Award Dean's List	2023