

PRIYANKA DEY SUCHI

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Office: Soil and Environment Section, Biological Research Division, BCSIR Laboratories, Dhaka

Bangladesh Council of Scientific and Industrial Research (BCSIR)

Dr. Quadrat-E-Khuda Road, Dhaka-1205, Bangladesh

EDUCATION

M.S in Environmental Science

August, 2015

University of Dhaka, Dhaka, Bangladesh, Advisor: Dr. SM Imamul Huq

B.S. in Soil, Water and Environment

May, 2014

University of Dhaka, Dhaka, Bangladesh

PROFESSIONAL EXPERIENCE

Scientific Officer

March, 2021- Continue

Soil and Environment Section, Biological Research Division, BCSIR Laboratories, Dhaka

Bangladesh Council of Scientific & Industrial Research (BCSIR)

Research Fellow

November, 2015-December, 2019

Soil and Environment Section, Biological Research Division, BCSIR Laboratories, Dhaka

Bangladesh Council of Scientific & Industrial Research (BCSIR)

TECHNICAL SKILLS AND COMPETENCES

Spectrometry: AAS- Shimadzu, FTIR- Thermo Scientific, UV-VIS- Shimadzu

Chromatography: IC, Sykam

AQMS (Ambient air quality monitoring system): Horiba

COMPUTATIONAL SKILLS

Software: Origin, Prism, Minitab, SPSS

Scripting and Language: Python, R

Data Analysis and Modeling: ArcGIS Pro, GIS and Remote Sensing using Google Earth Engine

RESEARCH GRANTS (SELECTED)

- Principal Investigator: Microplastics contamination in agricultural soil and its adjacent environment in and around Dhaka city (2022-2024), BDT- 2,75,000
- Principal Investigator: Synthesis of Cellulose nano crystal from waste saw dust and its application to removal of pollutants from waste water (2024-2026), BDT- 2,50,000
- Associate Investigator: Metal accumulation and ecological risk of major estuary in Bangladesh: A baseline study (2021-2023), BDT-4,00,000
- Associate Investigator: Airborne multipollutant in and around Dhaka city: source apportionment and health risk assessment (2022-2023), BDT-3,00,000

PUBLICATIONS (SELECTED)

- I. Suchi, P.D., Saha, B., Moniruzzaman, M., Paul, T., Das Karmaker, K., Hossain, M.K., Parvin, A. and Parvin, A., 2025. Distribution Patterns and Ecological Risks of Microplastics at Major Waste Disposal Environments in Dhaka, Bangladesh. *Water, Air, & Soil Pollution*, 236(1), pp.1-25. <https://doi.org/10.1007/s11270-024-07664-7>
- II. Suchi, P. D., Shaikh, M. A. A., Saha, B., Moniruzzaman, M., Hossain, M. K., Parvin, A., & Parvin, A. (2024). Comprehensive index analysis approach for ecological and human health risk assessment of a tributary river in Bangladesh. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2024.e32542>
- III. Suchi, P.D. et al., 2018. Arsenic mitigation approach in soil by some indigenous sources of biochar of different pyrolysis temperature. *International journal of recent advances in multidisciplinary research*, vol. 05, issue 06, pp. 3905-3914.
- IV. Jui, M., Miah, M.S., Islam, M.H., Sarwar, M.I., Moniruzzaman, M., Ankhy, R.S., Suchi, P.D. and Islam, M.S., 2025. Microplastic pollution in the water and sediment of the Karnaphuli River, Bangladesh: An ecological risk assessment. *Marine Pollution Bulletin*, 216, p.117948. <https://doi.org/10.1016/j.marpolbul.2025.117948>
- V. Parvin, A., Moniruzzaman, M., Hossain, M.K., Saha, B., Parvin, A., Suchi, P.D., Nawar, A., Shahrukh, S., Alam, M.S., Ankhy, R.S. and Selim, A., 2025. Multivariate toxicological assessments of inhaled fine-submicron particle-bound metals in school-aged children of Dhaka city. *Atmospheric Pollution Research*, p.102545. <https://doi.org/10.1016/j.apr.2025.102545>

CONFERENCE PRESENTATION

Oral presentation: BCSIR Congress, Dhaka, 2023

Poster presentation: NAME Conference, Cox's Bazar, 2023

THESIS SUPERVISION

Supervising M.S. theses on topics including air pollution monitoring (2025-2026) and heavy metals assessment in agricultural field near waste dumping area (2025-2026) and also heavy metals assessment in environmental samples as well as ecological and human health risk assessment (2022-2023)

PROFESSIONAL MEMBERSHIP

- Soil Science Society of Bangladesh.
- EDAPHOS-Soil Science Ex-Students Association, University of Dhaka.
- The BCSIR Scientists' Association (Biggani Songho)

PROFESSIONAL TRAINING

Operation and maintenance of-

- Ambient Air Quality Monitoring System (AQMS)- Delhi, India
- Gas Chromatography-Mass Spectrometry (GC-MS/MS)- BCSIR, Dhaka, Bangladesh
- Liquid Chromatography-Mass Spectrometry (LC-MS/MS)- BCSIR, Dhaka, Bangladesh
- Atomic absorption spectrophotometer (AAS)- BCSIR, Dhaka, Bangladesh
- FT-MIR-NIR- BCSIR, Dhaka, Bangladesh
- UV-Vis-NIR- BCSIR, Dhaka, Bangladesh
- Nano Particle size analyzer with zeta potential- BCSIR, Dhaka, Bangladesh

AWARDS

National Science and Technology Fellowship: 2012 – 2013

REFERENCES

Available upon request