

The Pollutant Content in the Padma River Water Draining from Rajshahi City and Its impact on fisheries

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Abstract

The study was carried out to assess surface water quality of Rajshahi City of Bangladesh. Based on surveys and chemical analyses, we performed a case study of the surface water collected from three different areas, in order to understand the sources of water pollution and the evolution of water quality in Rajshahi City, Bangladesh. Concentrations of major chemical elements in the surface water were related to the source of the agricultural, industrial and municipal sewerage. Low dissolved oxygen, pH, Secchi depth and high electrical conductivity, total phosphorous total nitrogen and heavy metals were strongly associated with the effluent impacted sites and greatly influenced the fish community structure. The Padma river bank close to the city side was more polluted by the domestic and sewerage system than that of opposite side. This study recommends the use of fish as valuable biological indicators in aquatic environmental pollution assessment.



Biography:

Dr. Mortuza has completed his PhD from Hiroshima University, Japan and postdoctoral studied from College of Biological Science, Pusan National University, S. Korea. Now he working as Professor in the Department of Zoology, University of Rajshahi, Bangladesh. He had been working as a full Professor in the Department of Zoology at King Saud University, Riyadh, Saudi Arabia from 2011-2016. His research tropics addresses environmental pollution, fisheries, ecology, biotic interaction, relationship and behaviour. He is also

actively engaged in collaborative research at home and abroad. He has published more than 55 papers in reputed journals and has been serving as an editorial board member of reputed Journals.

Speaker Publications:

- 1.M. Golam Mortuza (2019) Heavy Metal Concentrations in Four Cultured and Captured Fishes of Rajshahi City, Bangladesh. NORCAL Publications. 182-186.
- 2.M. Golam Mortuza (2015) Accumulation of Some Heavy Metals in *Oreochromis niloticus* from the Nile in Egypt: Potential Hazards to Fish and Consumers. Scientific Research Publications (6) 9 41-46.
3. M. Golam Mortuza (2015) Length–Weight Relationships of Twelve Fishes from the River Padma near Rajshahi City, Bangladesh. Fisheries and Aquaculture Journal (6) 1 1000113.
- 4.M. Golam Mortuza (2017) Environmental Contamination and Assessment of Heavy Metals in Water, Sediments and Shrimp of Red Sea Coast of Jizan, Saudi Arabia. Journal of Aquatic Pollution and Toxicology. 1:1

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