

A preliminary study on algal genera from five different water bodies of Agartala

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ABSTRACT

Algae play a pivotal role in aquatic ecosystems, contributing to nutrient cycling, primary productivity in the water food chain, pollution and water quality assessment etc. Despite their ecological and environmental significance, limited studies have focused on algal communities in the specific water bodies of Agartala. The study presents a result of primary investigation of algal genera from five distinct water bodies within Agartala municipality area. The water bodies selected for the study were- Collegetila lake, Shibnagar pond, Lakshminarayanbari dighi, Jagannathbaridighi and Banamalipur pond. These water bodies are partially used anthropogenically. A total of twenty five fresh water samples were collected from selected sites. Preliminary findings based on microscopic observations revealed a total of twenty three algal genera from all five selected waterbodies. This work contributes baseline data for further exploration and underscores the need for continued monitoring of algal flora of the selected water bodies.

Keywords: algal flora, waterbodies