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SEASONAL FLUCTUATION OF PHYTOPLANKTON POPULATION IN JHAGRASISA BHERI OF EAST KOLKATA WETLAND

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ABSTRACT

Attempt was made to observe the seasonal variation of phytoplankton population along with some parameters on water quality of Jhagrasisa bheri, one of the wetlands in East, Kolkata, during 2012-2013 where the annual planktonic population ranged between 5,666.4 and 67,777.7 u/l with a mean value of 23,762.6 u /l.

The observed phytoplankters are within 21 genera belonging to 5 class voice, Chlorophyceae, Cyanophyceae, Bacillariophyceae, Euglenophyceae and Xanthophyceae. Chlorophyceae and Cyanophyceae are the dominant among all forms contributing 56.86 and 40.64% respectively of the total population in the ecosystem. The peak abundance of phytoplankton was registered during post-monsoon with a mean of 26,310.73 u/l, while the lower population was encountered in monsoon, mean value being 21,393.38 u/l. Among all groups, Euglenophyceae represented minimum population during the study period, showing 0.55% towards the annual value.

KEYWORDS: Bhery, Phytoplankton, Ecosystem, Wetland