

DIVERSITY AND DENSITY OF PHYTOPLANKTONS OF BAKIYA BARRAGE ON TONS RIVER, SATNA, M.P

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ABSTRACT

Freshwater resources and reservoirs are of great importance and have significant value in nature. They provide habitat to the living aquatic organisms and provide drinking water to mankind and other organisms in the vicinity. Freshwater is the basic and vital requirement of mankind and all living organisms, because without water survival is not feasible. Along with this, electrical energy has also become an essential requirement of day-to-day life. There was no water reservoir in and around Satna district, which could cater for the increasing water requirements of the regional population. Also, there was a major shortage of electricity. To overcome these problems, a dam was built on river Tons, which is the largest river in Satna District in MP. During this research study, though many sub-divisions of the phytoplankton population have been identified and listed in the table, but mainly the "Net Plankton" community have been analysed in detail including their seasonal variations, the data obtained have been analysed statistically to estimate the significance of the impact of physicochemical parameters on the phytoplankton community.

KEYWORDS: Diversity, Density, Phytoplanktons, Bacillariophyceae, Chlorophyceae, Cyanophyceae, Euglenophyceae and Aquatic Weeds

Received: Nov 22, 2022; Accepted: Dec 12, 2022; Published: Jan 25, 2023; Paper Id: IJASRJUN20235