

CORRELATION BETWEEN PHYSICO-CHEMICAL FACTORS AND PHYTOPLANKTON GROWTH WITH REFERENCE TO *MICROCYSTIS* SP. IN THE HERITAGE TANK BINDUSAGAR, ODISHA

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Abstract: The relationship between the nutrient level and growth of different phytoplanktonic forms was studied in Bindusagar (Bhubaneswar, Odisha). Growth of *Microcystis* sp. in a water body is regarded as an indicator of water pollution. It is a notorious, potentially toxic Cyanobacteria that causes problems in freshwaters all over the world. It contains gas vesicles that make it lighter than water, so that it can accumulate at the surface of the water column, forming toxic scums. All the organic substances, after religious performances, are thrown into the tank, round the year and this organic nutrition, in water encourages bloom formation. *Microcystis* produces hepatotoxic as well as neurotoxic protein known as microcystin that is harmful for aquatic flora, fauna, domestic animals, birds as well as for human beings.

Keywords: Algal forms, *Microcystis* sp. Pollution, Temple tank

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