

EFFECT OF PHYSICO-CHEMICAL PROPERTIES ON MACROPHYTIC DIVERSITY IN LASADA POND, BANSWARA

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ABSTRACT

The present study aimed to describe how the physico-chemical parameter of water affects the variety of macrophytes, particularly concerning the Lasada pond. 17 different macrophytic species from 12 different families were identified during the study, with two dominating species found in the pond. The pond is occupied by submerged free-floating and anchored floating vegetation. The temperature is 15.50 to 41.95°C, D.O. is 5.10 to 7.12mg/l, TDS is 97.00 to 303ppm, pH is 7.1 to 8.04, free CO₂ is 2.05 to 3.21, nitrate is 0.86 to 1.56 and phosphate is 0.64 to 1.10. The inhabitant's unethical behaviour has also been noticed here, which may impact the general environmental health of the Lasada pond.

KEYWORDS: D.O., TDS, Quadrant Method, Physico-Chemical Parameters, Environmental Health, Macrophytic Diversity And Lasada Pond.

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