

Analysis of Physico-Chemical Water Parameters of Angoori Barrage, Datia (Madhya Pradesh)

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Abstract: Both the chemical and physical properties of water's environment play an essential role in determining the aquatic biota's quantitative and qualitative composition. Evaluating the abundant resources and healthiness of a water body requires an awareness of these features. The primary objective of the current study was to investigate the variability of several chemical as well as physical water parameters at Angoori Barrage located in Datia district of the Madhya Pradesh region. The mean range of chosen water characteristics, such as temperature, pH, EC, DO, BOD, TH, TA, COD, chlorides, water transparency, water turbidity, nitrates, phosphate etc were routinely examined between October 2020 and September 2022, a period of two years. According to the results, the water body is not acceptable for direct drinking due to the manmade pollution that comes from the surrounding region of catchment. Still, it can be used appropriately for the irrigation of crops as well as for fishing purpose.

Keywords: Physico-chemical, water parameters, Angoori Barrage, Madhya Pradesh