

# Seasonal Variation of Physicochemical Parameters in perennial Tank of Atpadi, Maharashtra

Shivaji M. Vibhute

Department of Zoology, Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi, M.S., India

**Abstract:** *Studies on physico-chemical parameters of the perennial tank of Atpadi, Sangli district, (Maharashtra), were carried out during February 2018 to January 2020. The physico-chemical parameters varied seasonally. The sacchi disc values varied from 21 cm to 38 cm. The minimum transparency was recorded in the month of August- September in monsoon and maximum in summer in May. The turbidity ranged between 2 to 32 NTU and was maximum in rainy season while minimum in the summer. The suspended solids ranged between 24 mg/L to 60 mg/l. The TDS value fluctuated between 218 mg/l to 388 mg/l. The electrical conductivity ranges between 400  $\mu$ mho/cm to 530  $\mu$ mho/cm. it was found maximum in summer and minimum in winter. The pH value ranged between 8.3 to 8.475 The dissolved oxygen varied from 5.3 mg/l to 9.8 mg/l. The alkalinity ranged between 109 to 198 mg/l. The total hardness was found to be moderate throughout the period of investigation and ranged between 117 mg/l to 167 mg/l. The BOD ranged between 1.6 mg/l in December to 14 mg/l in July. The COD ranged between 4 mg/l to 55 mg/l.*

**Keywords:** Season, Variations, Physico-Chemical Parameters, Atpadi, etc.

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