Seasonal Variation of Physicochemical Parameters in Perennial Tank of Atpadi, Maharashtra

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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 transferency 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 μmho/cm to 530 μmho/cm. It was found maximum in summer and minimum in winter. The pH value ranged between 8.3 to 8.47. 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.

REFERENCES
