

**ECOLOGICAL AND SEASONAL CHANGES IN
PHYSICO-CHEMICAL PARAMETERS IN RUI LAKE, DIGRAS. DIST.- YAVATMAL
(M.S.)**

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ABSTRACT

The Rui lake [situated 9 km away from Digras Tahsil Dist.- Yavatmal (M.S.)] is a life line for the people in these area because the lake is source of water for household and drinking purpose. Lake is major source of water supply for domestic purpose in the villages as well as many rural areas of India. In many instance lake water is used directly for drinking and other household purposes and hence the quality of lake water is extremely important (Garode et al). Lake play an important role in development of nation and sustenance of life which are being disturb due to the developmental activities (Mohammad Alam & Pathak J.K. 2010). Various physico-chemical factors governs lakes & aquatic bodies in nature. The parameters studied such as air temperature, water temperature, pH, total dissolved solid, dissolved oxygen, total hardness, chloride. Attempt to study the ecology of specific dam or lake over a period of one year or more to evaluate the seasonal changes, Arber (1920) has emphasized the necessity of such study. The present study is devoted particularly to focus the physico-chemical parameters & seasonal changes in the growth of phytoplankton available in Rui lake of Digras Tahsil Dist.- Yavatmal, studied during June-2010 to May-2011.

KEY WORDS: Physio-chemical parameters, Digras, Rui lake, seasonal changes.