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STUDY ON DIVERSITY OF ZOOPLANKTON AND SOME WATER QUALITY PARAMETERS IN TALODHI LAKE, DISTRICT GADCHIROLI (M.S.) INDIA

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Abstract:-

The present paper intended to study on zooplankton diversity with some water quality parameters in Talodhi Lake, District Gadchiroli. Samples were collected monthly (April - 2015 to September - 2015) from three (3) sites (A, B & C) of lake. Selection of these three (3) sites was to represent the three (3) major portion of the lake. Water sample are analyzed for some physico-chemical parameter and recorded that highest values of water temperature, pH, transparency and DO in the months of April, May and June. Lowest value recorded in the month of July August and September. In the present six (6) months investigation there are thirty-seven (39) species of zooplankton were recorded in Talodhi Lake. Out of these, 43.58% belongs to Rotifera (17, species.), 17.94% to Cladocera (07, species), 25.64% to Copepoda (10 species), 5.12% to Ciliata (02, species) and 7.69% larva (03, larval forms) with Rotifers (17) > Copepods (10) > Cladocerans (7). Diversity of zooplankton was lowest during April and May. The rotifer *Keratella tropica* was dominant among all zooplankton species encountered. There are five (5) rare species and out of two (2) species of copepoda (*Paracyclops fimbriatus*, *Tropocyclops prasinus*) and three (3) of Rotifera (*Conochiloides dossuarius*, *Keratella cochlearis* and *Trichocerca capucina*).

Key Words: Zooplankton, Composition, Diversity, Talodhi Lake, water quality parameters.

INTRODUCTION: -

At present limnology plays an important role in the decision making processes for problems of dam construction, pollution control, fish enhancement and aquaculture practices. Applied limnology has great scope in healthy existence of natural and manmade water bodies. Fresh water is

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