

**WATER QUALITY ASSESSMENT IS A TOOL FOR THE MONITORING OF CULTURE
POND –A STUDY OF UPPARAPALLE FRESHWATER LAKE OF
WARANGAL DISTRICT, TELANGANA STATE**

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ABSTRACT

The present study is an investigation that was carried out on the assessment of water quality through its physico-chemical parameters. A freshwater lake situated in Upparapalle village in Warangal district, Telangana State. The study has been conducted for a period of one year i.e. from February, 2016 to January, 2017. Monthly variations in Physicochemical parameters such as Temperature, PH, Electrical Conductivity, Total Dissolved Solids, Dissolved Oxygen, Biological Oxygen Demand, Turbidity, Free Carbon dioxide, Alkalinity, Carbonates, Bicarbonates, Hardness, Chlorides, sulphates and Nutrients like Nitrates, Phosphates were analyzed. The data obtained on the water samples was analyzed and the observations were made on the physicochemical parameters of water samples have been compared with standard values recommended by WHO. All the Physicochemical parameters are at the nearly permissible limit at all the four sampling stations of the lake where the water samples were collected. Continues monitoring of water quality parameters is necessary to give a boost to the Fish culture here in this lake. However, human-induced water pollution should be monitored in a proper manner and it needs appropriate management to achieve sustainable development.

KEYWORDS: *Freshwater Lake, Water Quality, Fish Culture*