



RESEARCH PAPER

Studies on water quality parameters in river Gautami-Godavari, Andhra Pradesh

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Abstract : The physico-chemical parameters play a imperative role in growth and sustainability of biological diversity in river ecosystem. The present work was carried out for comparative assessment of physico-chemical parameters of Godavari River at the places Kotipalli and Bhairavapalem for a period of two years starting from March-2015 to February-2017. Samples were collected in monthly intervals during this study duration. Analysis of physico-chemical parameters and nutrients was done. We found Salinity and silicate values have more variations in both selected stations (Kotipalli and Bhairavapalem). Salinity showed highest values (35.01 ppt) at Bhairavapalem (April, 2016) and lowest salinity observed in Kotipalli July 2015. Silicates were noticed low at Bhairavapalem and increased at Kotipalli. The values of silicate were ranged between 0.82mg/L (April 2016) to 16.43mg/L (November 2016) at Kotipalli and we noticed 0.23mg/L (April 2016) to 10.21mg/L silicate values at Bhairavapalem. The study revealed that quality of Godavari river water is highly affected negatively due to industrial, agricultural and human activities.

Key Words : Gautami Godavari River, Hydro graphical parameters and Nutrients

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