

## ASSESSMENT OF PHYSICO- CHEMICAL PARAMETERS IN THE AMPHIBIAN HABITATS OF TUMAKURU DISTRICT, KARNATAKA

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### ABSTRACT

Aquatic ecosystems are dynamic and their trophic state is controlled by physical and chemical conditions of water. Pool-breeding anurans have complex life cycles that place them at risk from habitat loss and the quality of the wetlands. These habitats were polluted on regular basis due to the release of domestic sewage, industrial effluents, organic pollutants and run-off from anthropogenic activities containing fertilizers. Anuran species that tend to spend much of the non-breeding period within and near wetlands. The quality of water always has a deteriorate effect on the survival and development of anuran fauna. For the present research work two different anuran habitats in the District of Tumakuru, Karnataka were selected. Samples were analyzed for the physico-chemical parameters for the period of one year (2015). The water samples were collected from the study habitat and analyzed to determine the water quality parameters such as temperature pH, electrical conductivity (EC), total dissolved solids (TDS), alkalinity, CO<sub>2</sub> and dissolved oxygen (DO) using titration and instrumentation method. The study revealed that high level of physico-chemical parameters in the urban aquatic habitat was vulnerable to the anuran fauna compared to the forest habitat of Tumakuru District, Karnataka.

**KEYWORDS:** Anuran Habitat, Physico-Chemical Parameters, Tumakuru District, Karnataka