

## PHYSICOCHEMICAL ANALYSIS OF WATER FROM VARIOUS SOURCES AND THEIR COMPARATIVE STUDIES

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### Abstract

Water is an essential natural resource of planet Earth. It is the only link for maintaining ecological balance and sustain life. So, for proceeding towards our sustainable development the center of attention should be water quality. Since the quality of water could be described by its chemical, physical and microbial characteristics, a fair assessment is possible by evaluating its physiochemical aspects among which pH, total hardness, electrical conductivity, total alkali, calcium hardness, magnesium hardness, chloride, nitrate, fluoride, dissolved solid, etc. are prominent and a systematic study of these parameters assists in quantifying the relatively wide levels of concentration of pollutants. This will further help in implementing water quality management practices effectively.

*Keywords:* Groundwater quality, Water quality index, Physico-chemical analysis.