

**ASSESSMENT OF GROUNDWATER QUALITY
IN AND AROUND KOPPA, MANDYA-TUMKUR DISTRICTS, KARNATAKA.**

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ABSTRACT

Some Hydrogeological studies have been carried out in Koppa area which is a granitic terrain. A total of 38 groundwater samples have been collected in different locations from bore wells, dug wells and surface water during pre-monsoon season to study the suitability of water for drinking and domestic purposes. Physical and chemical parameters of groundwater such as pH, Electrical conductivity, Total dissolved solids, Na, K, Ca, Mg, Cl, HCO₃, and SO₄ are determined. The analytical results show maximum values of pH (7.86), Total dissolved solids (1613 mg/l), Electrical conductivity (2156 µm/cm) Sodium (28.48 mg/l), Potassium (140.96 mg/l), Calcium (99.78 mg/l), magnesium (39.74 mg/l), Chloride (355.45 mg/l), Bicarbonate (61 mg/l), and Sulfate (405.32 mg/l). Using the analytical data an attempt is made to identify the water unsuitable for drinking.

Keywords: Hydrogeological, Koppa.