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## Consumers Water Quality Indices

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### ABSTRACT

*The present work is aimed at assessing the water quality index (WQI) for the ground water at Batlagundu, Dindigul District. 23 physico chemical parameters have been analyzed at six different areas of Batlagundu. Different water quality indices such as weighted arithmetic mean, weighted geometric mean, National Sanitation foundation (NSFWQI) and Canadian Council of Ministers and Environment (CCMEWQI) have been used. The parameters namely temperature, pH, sulphate, nitrate, phosphate, Dissolved Oxygen, BOD and COD values were within the permissible limits of BIS and WHO. But other parameter values were found to exceed the permissible limits. The water quality indices indicate that the water quality is poor. This analysis also reveals that the ground water of this area needs some degree of treatment before consumption and it also need to be protected from further contamination.*

**Keywords:** WQI, arithmetic mean, geometric mean, NSFWQI, CCMEWQI, BOD, COD, Ground water.

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