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A study on ground water quality: A Case Study of Olpad and its surrounding villages in Gujarat

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In rural India, people are dependent on ground water sources for drinking water requirements. The quality of ground water varies considerably in Indian villages. The water is used directly without any treatment by the rural villagers. The present work is carried out to determine the ground water characteristics for villages located in Olpad area and its surroundings. Sixteen villages in Olpad region were identified to collect the water samples for its characterization. Ground water samples were collected from open wells and analyzed for physicochemical parameters like pH, electrical conductivity, total dissolved solids, total suspended solids, total hardness, calcium hardness, magnesium hardness, total alkalinity, chloride and sulphate. Samples were collected in winter as well as in summer season to study the seasonal variation. The study of the water quality revealed very high results for hardness and solids in this region which makes the water unfit for drinking.

Biography

R A Christian is an Associate Professsor in Civil Engineering Department at S V National Institute of Techology, Surat. He has published more than 25 papers in reputed journals, and conferences. He is a Co-author of a book, "Wastewater Treatment: Concepts and Design Approach". His area of interest is air pollution and control, and biological treatment process.

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