

Department : Civil

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Group No: 13

Guided By

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Project Title

GROUND WATER QUALITY INDEX MEASUREMENT AND WATER DISTRIBUTION SYSTEM MONITORING , ASSESSMENT , ANALYSIS FOR PATAN ,GUJARAT

Abstract:

Groundwater is an important source of water supply throughout the world. The quantity and the suitability of groundwater for human consumption and for irrigation are determined by its physical, chemical and bacteriological properties. Its development and management plays a vital role in agriculture production, for poverty reduction, environmental sustenance and sustainable economic development. The present study is aimed at assessing the Ground water quality index (GWQI) for the groundwater of PATAN City. This has been determined by collecting 6 groundwater samples from different areas of PATAN City and subjecting the samples to a comprehensive physicochemical analysis. For calculating the GWQI, the following 6 parameters have been considered: pH, Turbidity, Fluoride, Chloride, COD, BOD and DO. Total 90 samples have been taken from 6 different locations of the city and four parameters have been tested. Also other samples from different other locations have been collected and tested but the samples of the prime 6 locations at far distances have been selected to conclude the study this time. A detailed comparison has been explained in the report. In future seven parameters will be tested to monitor and assess the Water Quality scale.

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