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Assessment of Ground Water Quality in Ramanathapuram Municipality using Geographical Information System (GIS)

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Abstract : Water is the basic element of social and economic infrastructure and is essential for healthy society and sustainable development. Due to rapid increase in density of population, fast urbanization, industrialization and agricultural, use the demand of water is increasing day by day. As a result surface water and ground water level is decreasing, pollution and increased demand have made good quality water scarer and more expensive. Groundwater is the favorite alternative is facing threats due to anthropogenic activities in India, which has lead due to deterioration in ground water quality. The possibility of ground water contamination is due to the mixing up of toxic chemicals, fertilizers, waste disposed site and industrial sites. Hence monitoring of ground water quality has become indispensable. GIS not only facilitates data capture and processing but also serve as powerful computational tools that facilitate multimap integrations. In this project ground water quality analysis was carried out for Ramanathapuram Municipality in Ramanathapuram District water samples were collected all around the Municipality the strategically analyzed results are presented in a GIS based water quality mapping.

Keywords : Groundwater, Quality, GIS Application, Ramanathapuram Municipality.

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