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# Analysis of Ground Water Quality in Ramanathapuram Municipality

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**Abstract :** The present work is aimed at assessing the water quality index (WQI) for the groundwater of Ramanathapuram Municipality. This has been determined by collecting groundwater samples and subjecting the samples to a comprehensive physicochemical analysis. For calculating the WQI, the following 7 parameters have been considered: pH, Total hardness, Electrical conductivity, Chloride, Calcium, Alkalinity, Magnesium. The WQI for these samples ranges from 89.21 to 660.56. The high value of WQI has been found to be mainly from the higher values of iron, nitrate, total dissolved solids, hardness, fluorides, bicarbonate and manganese in the ground water. The results of analyses have been used to suggest models for predicting water quality. The analysis reveals that the groundwater of the area needs some degree of treatment before consumption, and it also needs to be protected from the perils of contamination.

**Keywords :** Ground water Quality, Ramanathapuram Municipality.

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