



Water Quality Index Assessment of Domestic Water Supplies in System Tank

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Abstract: The study was confined to a system tank zone of River Noyyal in Coimbatore. The ground water and surface water of the monsoon and post-monsoon seasons were analyzed for various physico-chemical parameters. The Parametric Water Quality values in the respective units of measurement were found to be in the IS permissible ranges prescribed for EC (3 to 15 dS/m), pH (6.2 to 6.8), Total dissolved salts (500 to 2000) and sulphates (200 to 400). The overall quality indices for both surface and ground water were arrived at in a gradation system of weightage limits from 1 to 5, as less hazardous to severely hazardous status. The indices established the values in the moderate range of 2.3 to 3.8, suggesting the feasibility of quality sustained domestic water supplies.

Keywords: System Tank, Water Quality Index, Parametric Index, pH, EC, Turbidity, Hardness, Alkalinity, domestic water supplies
