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### Physico-Chemical and Biological Analysis of Ground Water in Mamsapuram Region, Virudhunagar District, Tamil Nadu, India.

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**Abstract :** Quality of water is an important criterion for evaluating the suitability of water for drinking. The ground water samples were collected and subjected for a comprehensive physico – chemical and Biological analysis. The following 18 parameters have been examined viz. pH, Electrical Conductivity, Total Alkalinity, Total hardness, Total Solids, Carbonate and non carbonate hardness, Chloride, Nitrate, Fluoride, Sulphate, Phosphate, dissolved oxygen, iron, manganese, Total colonies per ml on agar at 37° C, MPN of Coliform bacteria per 100ml, Nature of Coliform bacteria isolated. On comparing the results against drinking quality standards laid by World Health Organization, it was found that some of the water quality parameters were above the permissible limit and some were not. The study of physico-chemical and biological characteristics of this ground water sample suggests that the evaluation of water quality parameters as well as water quality management practices should be carried out periodically to protect the water resources.

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