

Ground Water Quality Evaluation in Vijaynagar Area of Bangalore

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ABSTRACT

Suitability of water for drinking and irrigation purposes can be determined by various physico-chemical parameters. Ground water samples were collected from different area in Vijaynagar of Bangalore and analysed for 13 water quality parameters viz. Electrical Conductivity, pH, , dissolved oxygen, Biological oxygen demand, Chemical oxygen demand, Alkalinity, Total hardness, Total dissolved solids, Magnesium, Calcium, Chloride, Sodium and Potassium, . On comparing results it was found that most of the parameters analyzed have shown that they are within the permissible limits for drinking water as prescribed by Bureau of Indian Standards (BIS). The pH value of the area ranges between 7.8 to 8.13 indicating low alkalinity of water. The water samples have significantly higher amount of TDS, they suggest possibilities of ground water pollution. It might be due to sewage or industrial sources.

Keywords: *Ground water quality, Chloride, Total alkalinity, Total hardness, Vijaynagar, Sodium, Potassium.*