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Study of Underground Water Quality using Gis

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Abstract : Water is one of the most basic needs for the survival of the human race. The present generation, however has seemed to forget the importance of preserving the quality of water². Due to over exploitation and polluting of surface water by human activities and industries, surface water these days have reached the extent that it cannot be used even for domestic purposes^{7,9}. Hence underground water has come into use, due to the rise in population and the unavailability of surface water in all places, it is not possible to use underground water for domestic purposes without knowing the properties and minerals in it. A detailed report showing the water quality parameters and the variations along the region would help in monitoring and provide the necessary treatment for underground water for its safe use. For this work, Coimbatore district was taken as the study area and samples from 35(Thirty Five) random stations in Coimbatore district were collected from the 8 Taluks in the district and seven different water quality parameters were checked. The results were integrated using GIS. This study aims to give a clear view of the quality of underground water in an efficient manner by blending the parameters with GIS.

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