

Krishna River Water Analysis Using Geospatial Technology

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ABSTRACT

The present study was done by the assessment of surface water quality which is carried out in Krishna River, Vijayawada, Andhra Pradesh. The Surface water quality study was assessed in all seasons. Surface water has significant role in the hydrological cycle and it is the part of precipitation that seeps down through the soil until it reaches rock material that is saturated with water. Due to rapid industrialization the quality of water is deteriorating gradually. Hence there is a need to assess the quality of surface water. Maps of surface water prospects zones prepared from satellite images, serves as efficient tools for detailed ground based hydro geological surveys which ultimately lead to the selection of suitable sites. Satellite data offers the unique capability for extracting information on geology, drainage, land use/ land cover and soil from a single image. Information on all these factors is essential in understanding the occurrence and movement of surface water. Considerable amount of data was generated between various parameters done by Geographical Information System 10.1 version software. Krishna River maps water prospects zones are prepared from the toposheets, serves as efficient tools for detailed surface based hydrogeological survey. Arc-GIS software is used assess the quality of surface water in Krishna River. This assessment will help in order to develop good water quality region successfully. Environmental changes taking place in the Krishna River water should be recorded with the help of GIS and Satellite base image maps should be used as basic input parameters for Environmental mapping and recording of Krishna River water environment.

Keywords: *Environment, GIS, Base Map.*