

PROJECT REPORT ON
“STUDY OF THE STATUS OF DRINKING WATER IN
KODIGENAHALLI GRAM PANCHAYAT OF MADHUGIRI
TALUK, TUMKUR DISTRICT USING GEOSPATIAL
TECHNOLOGY”

Undertaken By
KSCST, IISc., BANGALORE

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In
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Submitted By:
ARIGHNA GHOSH 1SI07CV008
BHASKAR 1SI07CV010
BIMLESH KUMAR 1SI07CV011
RAHUL SAHAY 1SI06CV029

Under the guidance of

External Guide
Dr. S.G.Sreekanteshwara Swamy
Fellow,
KSCST, IISc, Bangalore

External Guide
Mr. Vijay U.T.
Project Engineer,
KSCST, IISc, Bangalore

Internal Guide
Mr. Muttana. S. Balreddy
Assistant Professor
Dept. of Civil Engg.
SIT Tumkur



Department Of Civil Engineering
SIDDAGANGA INSTITUTE OF TECHNOLOGY
Tumkur-572103.Karnataka

ABSTRACT

The un-even distribution of rainfall with time and space and geometric increase in population coupled with rapid urbanization, industrialization and agricultural development has produced a high impact on the quality and quantity of water in our country. The discharge of untreated or partially treated wastewater from urban and industrial sources is the most important cause for the water quality degradation. Domestic wastewater shares about two third of the total population load discharged into the aquatic environment. Depending on the ground water resources available even at the times of severe drought conditions, when major part of this surface water sources are exhausted, it has been conceived to develop ground water based irrigation system in certain part of the district. Many parts of south and north interior Karnataka depend on the ground water for its domestic and agricultural needs. We should note that Tumkur district comes under drought prone region.

The present study is an attempt to investigate the drinking water facilities in Kodigenahalli Gram Panchayat by using advanced scientific methodology like Geographic Information System (GIS), Global Positioning System (GPS) and Remote Sensing. The characteristics of drinking water are known with the help of certain tests conducted in the laboratory. With this we get an opinion of the suitability of the water supply for the public use. The results of the tests conducted on different water samples might serve as a first hand information to user agencies like Panchayat Raj Engineering Departments, Zilla Panchayat and District Administration for better planning, monitoring and implements on the various development activities on the drinking water of the study area.