

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAUM – 590 010



A PROJECT REPORT ON

**“ASSESSMENT OF GROUND WATER QUALITY AND ITS MAPPING USING RS
AND GIS AS TOOL IN PARTS OF JAGULUR TALUK OF DAVANGERE
DISTRICT (PHASE-II)”**

SPONSORED BY (K.S.C.S.T)

Submitted in partial fulfillment the requirements for the award of degree

**BACHELOR OF ENGINEERING
IN
CIVIL ENGINEERING**

PROJECT GUIDES

Sri S.A.GANGARAJU

M.Sc (GEOLOGY)

Asst. Professor

Sri Dr.S.Manjappa

M.Sc,Ph.D (CHEMISTRY)

Professor & HOD

PROJECT ASSOCIATES

ROHITH .J .U

4BD06CV018

SAURAV KUMAR

4BD07CV028

SHRIKANTH NAGNOOR

4BD07CV030

RAMESH H N

4BD08CV405



DEPARTMENT OF CIVIL ENGINEERING

BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY

DAVANGERE – 577 004

2010-2011

SYNOPSIS

Jagalur taluk is one of the six taluks coming under Davangere revenue district. It lies between 76°00' N longitude and 14°33' E latitude. It is located 48 km NE of Davangere and at an altitude of 6000 m above sea level.

In Jagalur taluk granitic-gneisses and schists are the main water bearing formations. Ground water occurs within the weathered and fractured granitic-gneisses and schists under water table condition and semi-confined condition.

In the present study water has been collected from 37 different locations in Jagalur taluk and tests have been conducted to evaluate certain characteristics . These are compared with the standards for portable water to identify the locations which are not as per the standards.

The geographical locations of these borewells have been noted down by using GPS and later their positions have been marked over the geological map to ascertain the quality of groundwater in terms of various rock formations. Chemical quality of water has been plotted using map info software. The impact of rain fall over ground water fluctuation and its quality change has also been studied.