

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM – 590 010



A PROJECT REPORT ON

**“IMPACT OF RECHARGE ON AQUIFER SYSTEM & UNDERGROUND
WATER QUALITY IN PARTS OF
JAGALUR(Tq)(PHASE-III), DAVANGERE(Dist)”**

SPONSORED BY K.S.C.S.T

Submitted in partial fulfillment the requirements for the award of degree

**BACHELOR OF ENGINEERING
IN
CIVIL ENGINEERING**

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SYNOPSIS

Jagalur taluk is one of the six taluks coming under Davangere revenue district. It lies between $76^{\circ}00'$ N longitude and $14^{\circ}33'$ E latitude. It is located 48 km NE of Davangere and at an altitude of 600m 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 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 ground water 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 has also been studied.