

PROJECT REPORT

ON

**“APPLICATION OF GIS AND REMOTE SENSING
TECHNIQUES IN LANDFORM PATTERNS AND
HYDROLOGY FOR CHICKMAGLUR DISTRICT”**

**In partial fulfillment of the requirements for the
Award of the degree of**

**“BACHELOR OF ENGINEERING”
IN
“CIVIL ENGINEERING”**

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ABSTRACT

The report describes the preparation of land use land cover changes in chickmaglur district. Because of economic importance of city has been earmarked and reserved for the projection and development of chickmaglur district. Landsat image of December 2000 where analyzed using ERDAS imagine and arc GIS software. Different broad of land use land cover classes were identified and mapped has forest area, Rabi, fallow land, water bodies.

Hydro geological investigation has been carried out to evaluate ground water quality in and around chickmaglur city. The study area, is spread over 27000sq km. thematic layers of drainage, geology, geomorphology has been generated by using toposheet. GSI geology map, inventory of many wells during year of 2010 reveals that the water table fluctuates 1.5 to 12m below ground level.

Ground water level of different area in chickmaglur district is carried out, the depth of water level below ground level is determined and is plotted vs variation of months at a interval of 4 months. The various places which we carried out for this objective are taluks and villages of chickmaglur district.