IDENTIFICATION AND EVALUATION OF ACTIVE QUARRIES IN MANDYA TALUK USING GIS AND REMOTE SENSING

A Dissertation Submitted to

P.E.S. COLLEGE OF ENGINEERING, MANDYA

(An Autonomous Institute under Visvesvaraya Technological University, Belgaum)

In partial fulfillment of the requirement
for the award of the Degree

BACHELOR OF ENGINEERING
IN CIVIL ENGINEERING

Submitted by

BHAVANI N	**[USN 4PS08CV013]**
RAKSHITH S RAO	**[USN 4PS08CV049]**
VEENA K R	**[USN 4PS08CV064]**
ROBERT LALREMRUATA	**[USN 4PS08CV052]**

Under the guidance of

Dr. L Prasanna Kumar
Professor of Civil Engineering

Dept of Civil Engineering
P.E.S College of Engineering, Mandya.

2011-2012

SYNOPSIS

This project work deals with the identification and evaluation of active quarries in Mandya taluk.

The report contains data collection from Mines and Geology Dept., toposheet of study area, rules and regulations from Mines and Geology Dept, Karnataka, survey using Geo Physical resistivity meter, GPS survey, digitizing the study area using GIS software.

The Geo physical Resistivity Meter is used to know the thickness of the subsurface (soil cover / weathered rock mass) and the nature (fractured/unfractured) hard rock.

GPS is a simple tool which has enormous usage in almost all fields now a days, hence this tool is adopted by us to collect the ground truth data.

GIS software is a powerful tool which can give us the ground data minute to minute with the help of satellites under the principle of Remote Sensing. For our project we have used the software of GIS, 'ArcGIS' to get information about the study area.

We are able to successfully complete the project by identifying the quarries with the given tools and evaluate them by checking if they are following the rules given by Mines and Geology Dept. and finding the amount of depletion of land and various impacts due to it.