

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**"JnanaSangama" Belagavi – 590018**



**PROJECT REPORT  
ON  
"GEOTECHNICAL INVESTIGATION OF LANDSLIDE  
OCCURRED IN CHARMADI GHAT: A CASE STUDY"**

*Submitted in partial fulfilment of the requirements for the award of degree*

**BACHELOR OF ENGINEERING  
IN  
CIVIL ENGINEERING**

**Submitted By**

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**DEPARTMENT OF CIVIL ENGINEERING  
ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY  
SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI – 574 225, KARNATAKA**

**2018-2019**

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# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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(Affiliated to VTU, BELAGAVI)

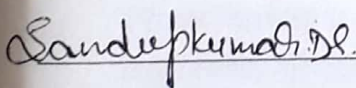
## DEPARTMENT OF CIVIL ENGINEERING

### CERTIFICATE

Certified that the project work entitled "GEOTECHNICAL INVESTIGATION OF LANDSLIDE OCCURRED IN CHARMADI GHAT: A CASE STUDY" is a bona fide work carried out by

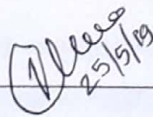
ANNAPPA SANI	4AL14CV013
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in partial fulfillment for the award of BACHELOR OF ENGINEERING in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018–2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

 15/5/19

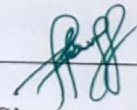
Signature of the Guide

Prof. Sandeepkumar D S

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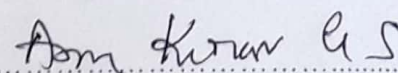
Signature of the Principal

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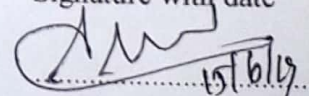
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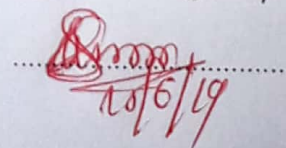
Name of the Examiners

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Signature with date







## ABSTRACT

For centuries human has tried to control the nature for their advantages and to some extent, they have achieved in harnessing the Mother Nature. During the ancient times, human had a little knowledge about the nature and its functioning, but as the time elapsed more innovative technologies developed, population rate increased and the land become scarce, as a result human become greedy for their own needs, a lot of disasters other than natural calamities began to strike – the manmade disasters.

The project mainly aims at studying the geotechnical aspects of a landslide occurred in Charmadi Ghat, Dakshina Kannada district, Karnataka. The study includes the primary investigations of the site, collection of soil samples, testing of samples, and analysis of test results with scientific theories, mapping of the study area and finally proposing the remedial measures to mitigate landslide effects.

**Keywords:** Disasters, Landslide, Study area