

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**"Jnana Sangama" Belagavi- 590018**



## **PROJECT REPORT ON**

## **"SUBGRADE SOIL STABILIZATION USING INDUSTRIAL WASTE"**

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

**BACHELOR OF ENGINEERING**

**IN**

**CIVIL ENGINEERING**

**Submitted by**

**ASHISH KUMAR**

**4AL19CV004**

**MAILAR KANER**

**4AL19CV015**

**YOGESH**

**4AL19CV043**

**SANJEEVAKUMAR**

**4AL19CV036**

**Under the Guidance of**

**Prof. Tanvi Rai**

**Associate Professor**

**DEPARTMENT OF CIVIL ENGINEERING**

**ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY**



**ALVA'S**  
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**MIJAR, D.K- 574225**

**KARNATAKA**

**2022-23**

# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Alva's Education Foundation®, Moodbidri)

"Shobhavana", Mijar, Moodbidri - 574 225, D.K.

DEPARTMENT OF CIVIL ENGINEERING

## Certificate

This is to Certify the Following Students

ASHISH KUMAR	4AL19CV004
MAILAR KANER	4AL19CV015
YOGESH	4AL19CV043
SANJEEVAKUMAR	4AL19CV036

Have submitted the project work Report entitled on "**SUBGRADE SOIL STABILIZATION USING INDUSTRIAL WASTE**" For VIII semester B.E in Civil Engineering during the academic year 2022-23. The Project has been approved as it satisfies the academic requirements in report of Project work prescribed by Visvesvaraya Technological University for the award of degree in Bachelor of Engineering Degree.



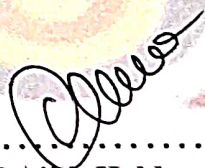
Prof. Tanvi Rai

Project guide & Co-ordinator

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Signature with Date

Sw 27/5/23

## ABSTRACT

Soil stabilization is an essential technique employed in civil engineering to improve the engineering properties of subgrade soils. The use of industrial waste materials for soil stabilization has gained significant attention in recent years due to their potential as cost-effective and sustainable alternatives. This abstract provides an overview of the concept and effectiveness of subgrade soil stabilization using industrial waste.

The objective of this study is to evaluate the feasibility and performance of various industrial waste materials for subgrade soil stabilization. Industrial waste materials such as fly ash, Ground granulated blast furnace slag, Quarry dust, are considered in this research. These materials are abundantly available as byproducts of industrial processes, making them attractive options for soil stabilization.