



**Department of Civil Engineering**

**Certificate**

*This is to certify that the project work entitled **Slope Stability Analysis of Madikeri district and Landslide Mitigation** is a bonafide work carried out by*

Anil Kumar T	IKG16CV006
Chethana C R	IKG18CV007
Lavanya S	IKG18CV011
Narasimha Shenoy K P	IKG18CV014

*in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.*

Internal Guide  
**Dr. Arekal Vijay**  
Professor,  
Dept. of Civil Engg.  
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Co Guide  
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Associate Professor,  
Dept. of Civil Engg.  
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Head of the Dept.  
**Dr. Vijaylakshmi Akella**  
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**Dr. Rama Narasimha**  
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Principal/Director  
K.S. School of Engineering and Management  
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University Examiners:

28/04/22

Name and Signature of Examiner-1

Name and Signature of Examiner-2



**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT**  
**DEPARTMENT OF CIVIL ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled “**SMART IRRIGATION SYSTEM USING IoT IN DRIP IRRIGATION**” is a bonafide work carried out by


<b>RAVI V</b>	<b>1KG18CV020</b>
<b>T M ROHIT YADAV</b>	<b>1KG18CV029</b>
<b>VARUN C J</b>	<b>1KG18CV032</b>
<b>ABHINANDAN BHAGAT</b>	<b>1KG18CV033</b>


in partial fulfillment for the award of **Bachelor of Engineering in Civil Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2021-2022. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Project Work (18CVP83)** prescribed for the degree.

**Internal Guide**

**Head of the Department**

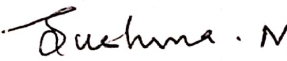
**Principal**

  
**Mr. Shashi Prasad N**  
Assistant Professor  
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**Dr. Vijayalakshmi Akella**  
Professor & Head  
Head of the Department  
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**Examiners**

  
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Name and Signature of Examiner-1

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**Dr. K. RAMA NARASIMHA**  
Principal/Director  
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**Department of Civil Engineering**

**Certificate**

This is to certify that the project work entitled **Generating Alternative Energy Provide Uninterrupted power supply to Rural Villages** is a bonafide work carried out by

<b>AKASH K MURTHY</b>	<b>1KG17CV003</b>
<b>PRABIN SINGH</b>	<b>1KG18CV016</b>
<b>PRAJWAL M</b>	<b>1KG18CV017</b>
<b>CHAITRA J</b>	<b>1KG18CV034</b>

in partial fulfilment for the award of **Bachelor of Engineering in CIVIL Engineering** of Visvesvaraya Technological University, Belgaum, during the year 2021-22. It is certified that all the suggestions indicated during the internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.

*W Akella*

Internal Guide

**Dr. Vijayalakshmi Akella**

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*Sushma - M*

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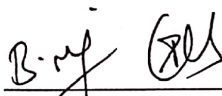


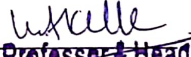
**Department of Civil Engineering**  
**CERTIFICATE**

This is to certify that the project work entitled **Experimental Study on Geo polymer And Normal Block Masonry with and Without Horizontal Reinforcement** is a bonafide work carried out by

B. NAVEEN	1KG18CV004
CHANDRASHEKAR.C	1KG19CV401
LOKNATH.S	1KG19CV402
RAKESH.D	1KG19CV406

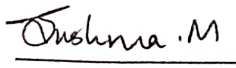
in partial fulfilment for the award of **Bachelor of Engineering in Civil Engineering** of **Visvesvaraya Technological University, Belgaum**, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of **project work (18CVP83)** prescribed for the degree.

  
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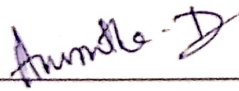
**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT  
DEPARTMENT OF CIVIL ENGINEERING**

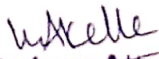
**CERTIFICATE**


This is to certify that the project work entitled “CASE STUDY ON BULLET TRAIN TRACK FROM MUMBAI-AHMEDABAD” is a bonafide work carried out by

BHAGATH HK	1KG17CV006
DINESH KRISHNAN	1KG17CV009
SANDEEP PATRE	1KG18CV023
SHREYAS PRASANNA	1KG18CV026

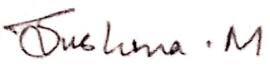
in partial fulfillment for the award of **Bachelor of Engineering in Civil Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Project Work (18CVP83)** prescribed for the degree.


  
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**Examiners**

  
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28/7/2022  
Name and Signature of Examiner-2



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**Department of Civil Engineering**

## CERTIFICATE

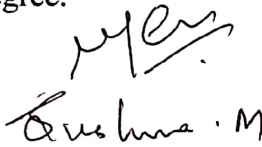
This is to certify that the project work entitled is a bonafide work carried out by

**K YASWANTH**                      **1KG17CV015**

**MADHUNANDAN S**                **1KG18CV012**

**MOUNESH KUMAR N**            **1KG19CV403**

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.



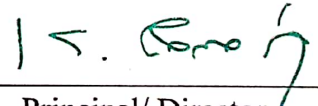
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**Mrs. Sushma M**  
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Head of the Department  
Professor & Head  
Dept. of Civil Engineering  
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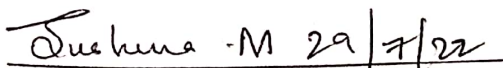
**Dr. Vijayalakshmi Akella**  
Professor & head  
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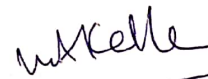


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**Dr. K. Rama Narasimha**  
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Name and Signature of Examiner-1

  
Name and Signature of Examiner-2

**K.S. School of Engineering and Management**  
No. 15, Mallasandra, off Kanakapura Road, Bangalore-560062



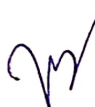
**Department of Civil Engineering**

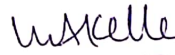
## Certificate


*This is to certify that the project work entitled Design of Pile foundation for High Rise Structure and Numerical Validation is a bonafide work carried out by*

Aishwarya M	1KG18CV001
Reemashree Das	1KG18CV021
Sunitha T U	1KG18CV027
Tejaswini Shivaram	1KG18CV030

*in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.*


  
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University Examiners:

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28/07/2022

Name and Signature of Examiner-1

  
28/7/2022

Name and Signature of Examiner-2





**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT  
DEPARTMENT OF CIVIL ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled **SUSTAINABILITY OF TRADITIONAL VERNACULAR MUD HOUSES USING AUTODESK ECOTECH** a bonafide work carried out by

Anup	1KG18CV003
Sachin Sangappa Kagal	1KG18CV022
Chaitanya K N	1KG19CV400
Pradeep Kumar S T	1KG19CV405

in partial fulfillment for the award of **Bachelor of Engineering in Civil Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2021-2022. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Project Work (18CVP83)** prescribed for the degree.

*Sushma . M*  
*M E*

Internal Guide

Mrs. Sushma M  
Mr. Naveena M P  
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*W Akella*

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Examiners

*Sushma . M*  
*28/07/22*

Name and Signature of Examiner-1

*W Akella*

Name and Signature of Examiner-2





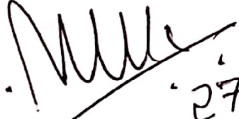


**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**CERTIFICATE**

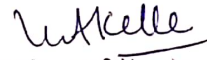
This is to certify that the project work entitled "UTILIZATION OF WASTE PLASTIC IN BITUMINOUS PAVEMENTS WITH LOCAL AGGREGATES BY DRY BLENDING" is a Bonafide work carried out by

VARSHA A	1KG18CV031
AISHWARYA S	1KG18CV002
NIRMITHA S	1KG18CV015

in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering of Viswesvaraya Technological University, Belagavi, during the year 2021-2022. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work (18CVP83) prescribed for the degree.

  
27/7/2022  
Internal Guide

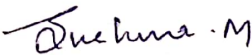
Mr Veerendra Kumar M  
Associate Professor  
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Head of the Department  
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Head of the Department  
Dept. of Civil

  
Principal

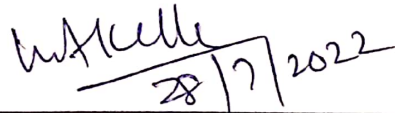
Dr K.RamaNarasimha  
KSSEM  
Dr. K. RAMA NARASIMHA  
Principal/Director  
K S School of Engineering and Management  
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Examiners



28/07/2022

Name and Signature of Examiner-1

  
28/7/2022

Name and Signature of Examiner-2





**KSSEM**  
K.S. GROUP OF INSTITUTIONS

**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT**

**DEPARTMENT OF CIVIL ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled **TO MANUFACTURE AND STUDY THE STRENGTH PROPERTIES OF DIFFERENT BLOCKS USING STRAW** is a bonafide work carried out by

**ARUNAGOUDA SHIVANAGOUDA KADUR**  
**MARY AISHWARYA B**  
**SANTHOSH CHANDRASHEKARA HARAVI**  
**SWATHI K**

**1KG16CV060**  
**1KG18CV013**  
**1KG18CV025**  
**1KG18CV028**

in partial fulfillment for the award of **Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi**, during the year 2021-2022. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Project Work (18CVP83)** prescribed for the degree.

Internal Guide

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Professor & Head

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**Dr. K. Rama Narasimha**  
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Name and Signature of Examiner-1

Name and Signature of Examiner-2





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This is to certify that the project work entitled **PARAMETRIC STUDY OF AIR QUALITY INDEX AT SALIENT POINTS IN BENGALURU** is a bonafide work carried out by


<b>UZAIR IFTEKHAR</b>	<b>1KG15CV054</b>
<b>MADHUSUDHAN R</b>	<b>1KG16CV028</b>
<b>SANJAY S</b>	<b>1KG16CV048</b>

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**Internal Guide**

**Head of the Department**

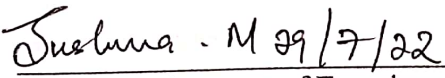
**Principal**

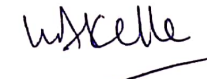
  
**Dr. Rashmi H R**  
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Name and Signature of Examiner-1

  
Name and Signature of Examiner-2



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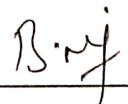
**Department of Civil Engineering**

## *Certificate*

*This is to certify that the project work entitled "STRENGTH CHARACTERISTICS OF CONCRETE PRISM WRAPPED WITH CARBON FIBER" is a bonafide work carried out by*

<b>SANJAY M V</b>	<b>1KG16CV047</b>
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<b>NIRANJAN K</b>	<b>1KG18CV411</b>
<b>SUKHVEER K ACHARYA</b>	<b>1KG18CV413</b>

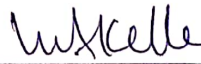
*in partial fulfilment for the award of "Bachelor of engineering in civil engineering" of Visvesvaraya Technological University, Belgaum, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.*

Name and Signature of  
Internal Guide

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**Mr. Manjunath B**

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Professor & Head  
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**Dr. Vijayalakshmi Akella**

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**Dr. K. RAMA NARASIMHA**  
Principal/Director

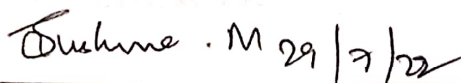
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**Dr. K Rama Narasimha**

Principal  
KSSEM, Bengaluru

University Examiners:



Name and Signature of Examiner-1



Name and Signature of Examiner-2



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**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

**Department of Civil Engineering**

## *Certificate*

*This is to certify that the project work entitled "SEISMIC ANALYSIS OF MULTI STORED BUILDING WITH SHEAR WALLS AT DIFFERENT LOCATION" is a bonafide work carried out by*

**NAVEEN J**

**1KG20CSE03**

*in partial fulfilment for the award of "MASTER OF TECHNOLOGY" of Visvesvaraya Technological University, Belgaum, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this thesis satisfies the academic requirement in respect of project work prescribed for the degree.*

Name and Signature of  
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Head of the Department

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Principal/ Director

**Dr. K Rama Narasimha**  
Principal  
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University Examiners: Head of the Department

**SHASHI PRASAD N**

  
6/10/2022

Name and Signature of Examiner-1

**KAVYASHREE. R R**

  
6/10/22

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## Certificate

This is to certify that the project work entitled "TO INVESTIGATE THE ELASTIC CONSTANT AND FIND ULTIMATE STRENGTH OF ACACIA WOOD FOR DIFFERENT GRAIN ANGLES" is a bonafide work carried out by

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This is to certify that the project work entitled "EVALUATION OF SEISMIC CAPACITY OF BUILDING STRUCTURES RESTING ON SLOPING GROUND BY PUSH-OVER ANALYSIS" is a bonafide work carried out by

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This is to certify that the project work entitled "STUDY ON CHARACTERISTICS OF CEMENT MORTAR AND CONCRETE WITH GEOPOLYMER FINE AGGREGATE AS A REPLACEMENT OF M-SAND" is a bonafide work carried out by

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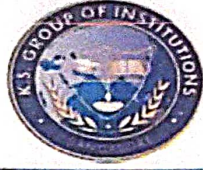
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This is to certify that the project work entitled "PUSHOVER ANALYSIS ON G+7 REINFORCED CONCRETE BUILDING USING E-TABS" is a bonafide work carried out by

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