

K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Experimental and analytical study on seismic behaviour of RCC portal frame using ETABS" is a bonafide work carried out by

- Banashree B** **1KG18CV005**
- L Suhas** **1KG18CV010**
- Santhosh Kumar D** **1KG18CV024**
- Umesh Kumar Singh** **1KG19CV024**

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2022-23 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.

B. M.
Name and Signature of
Internal Guide

W. Kelle
Head of the Department

K. Rama S.
Principal/ Director

**Mr MAJUNATH B/
Mrs SAISUSHMA B A**

Dr Vijayalakshmi Akella
Professor & head
Dept. of Civil Engineering
K.S. Group of Institutions
K.S. School of Engineering & Management
Bengalure-560 062

Dr K Rama Narasimha
Dr. K. RAMA NARASIMHA
Principal/Director
K.S. School of Engineering and Management
Bengaluru - 560 109

University Examiners:
Narayana my
21/11/23

Vinayak. A. Hosur

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, Bengaluru-560109



Department of Civil Engineering

CERTIFICATE

*This is to certify that project work entitled **Experimental Study Of Seismic Behavior On Scaled Masonry Structure** is a bonafide work carried out by*

Mamrutha M	1KG19CV009
Suneel N Patil	1KG19CV023
Jayaprasad Yadav K	1KG20CV402
Ranjitha P M	1KG20CV410

*In partial fulfillment for the award of **Bachelor Of Engineering In Civil Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2022-2023. 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.*

B.M.J

Internal guide

Mr. Manjunath B
Assistant Professor
Dept. of Civil Eng
KSSEM

W. Kelle

Professor & Head
Dept. of Civil Engineering

K.S. Group of Institutions
K.S. School of Engineering & Management
Bangalore-560062
Dr. Vijayalakshmi Akella
Professor & head
Dept. of Civil Eng
KSSEM

K. Rama S

Principal
Dr. K. Rama Narasimha
Principal/Director
K.S. School of Engineering and Management
Bengaluru-560109
Dr. K. Rama Narasimha
Principal & Director
KSSEM

Examiners

Narayan
M. S. M

Name and Signature of Examiner-1

Vinayak - A. - H. - H

Name and Signature of Examiner-2



K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Experimental investigations on low strength translucent concrete blocks" is a bonafide work carried out by

R C Ramachandra Gowda 1KG18CV018

Arjun Gowda D N 1KG20CV400

Sadashiva M 1KG20CV411

Shwetha M A 1KG20CV413

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2022-23 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.

M. K. S. 24/05/2023
Amrutha D 24/5/2023
Name and Signature of
Internal Guide

Mr Veerendra Kumar M /
Mrs Amrutha Dhiraj

Lakshmi
Professor & Head
Head of the Department
Dept. of Civil Engineering
K.S. Group of Institutions
Dr Vijayalakshmi Akella
K.S. School of Engineering & Management
Bangalore-560 062.

K. Rama
Principal/ Director
Dr. K. RAMA NARASIMHA
Principal/Director
Dr K Rama Narasimha
K.S. School of Engineering and Management
Bengaluru - 560 109

University Examiners:
Naraina M
M. S.
Name and Signature of Examiner-1

Vinayar. A. Hares
Name and Signature of Examiner-2

K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



KSSEM
K.S. School of Engineering and Management

Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Experimental Investigation on Mechanical Properties of Self-Healing concrete by using Bacillus Subtilis" is a bonafide work carried out by

Bharath S Kadam 1KG19CV002

H Srinithish 1KG19CV004

Lokesh Chowdary L 1KG19CV007

Mohammed Shoab Ahmed 1KG19CV012

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2022-23 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

Mr. Shashi Prasad N
University Examiners:

Name and Signature of Examiner-1

Head of the Department

Dr. Vijayalakshmi Akella

Principal/ Director
Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109

Dr. K Rama Narasimha

Name and Signature of Examiner-2

K.S. School of Engineering and Management
No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



KSSEM

Department of Civil Engineering

Certificate

This is to certify that the project work entitled "EXPERIMENTAL INVESTIGATION ON ENHANCEMENT OF FLEXURAL STRENGTH OF RC BEAM BY WRAPPING OF LOW COST GLASS FIBRE REINFORCED POLYMER" is a bonafide work carried out by

HARSHITHA S	1KG19CV005
KARTHICK NAIDUA	1KG20CV403
MONISHA R P	1KG20CV406
RAJULA SAI JITHIN	1KG20CV409

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2022-23 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.

Naveena M
MP

Name and Signature of
Internal Guide

Mr. NAVEENA M P

Akella

Head of the Department

Dr. Vijayalakshmi Akella

K. Rama Narasimha

Dr. K. RAMA NARASIMHA
Principal/Director

K S School of Engineering and Man

Dr. K. Rama Narasimha

University Examiners:

Naveena M
MP

Name and Signature of Examiner-1

Vinayak A. Hore

Name and Signature of Examiner-2

K.S. School of Engineering and Management
No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Studies on early age characteristics of self-cured GGBFS based concrete mixes" is a bonafide work carried out by

Preethi P	1KG19CV015
Salman Bashir	1KG19CV017
Siddanna Gouda	1KG19CV019
Suhail Altaf Dar	1KG19CV022

in partial fulfilment for the award of "Bachelor of Engineering in Civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2022-23 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

Dr Rashmi H R

~~Professor & Head~~

~~Head of the Department~~
K.S. Group of Institutions

K.S. School of Engineering & Management
Bengaluru-560 062.

Dr. Vijayalakshmi Akella

~~Principal/ Director~~

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

K.S. School of Engineering and Management

Bengaluru - 560 109
Dr. K Rama Narasimha

University Examiners:

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, Bengaluru-560109



KSSEM

Department of Civil Engineering

Certificate

This is to certify that the project work entitled "*Experimental Study On Sustainable Thermal Blocks For Trombe Walls To Condition Buildings*" is a bonafide work carried out by

Keerthana L	1KG19CV006
Bhargav M	1KG20CV401
Kishore S	1KG20CV404
Sandesh K N	1KG20CV412

in partial fulfilment for the award of "*Bachelor of Engineering in Civil Engineering*" of Visvesvaraya Technological University, Belgaum, during the year 2022-23 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.

Handwritten signature in blue ink of the Head of the Department.

Head of the Department
Professor & Head
Department of Civil Engineering
K.S. Group of Institutions

Dr. Vijayalakshmi Areka
K.S. School of Engineering & Management
Bangalore-560 062.

University Examiners:

Handwritten signature in red ink of Dr. Areka Vijay.

Name and Signature of Examiner-1

Handwritten signature in green ink of the Principal/Director.

Principal/Director
Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109

Dr. K Rama Narasimha

Handwritten signature in black ink of Examiner-2.

Name and Signature of Examiner-2

K.S. School of Engineering and Management
No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109



KSSEM

Department of Civil Engineering

Certificate

This is to certify that the project work entitled "Fire safety audit for multi-storey buildings" is a bonafide work carried out by

Chethan M	1KG18CV006
Nishchitha N	1KG19CV013
Krishna Prasad N H	1KG20CV405
Srinidhi G Joshi	1KG20CV414

in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering" of Visvesvaraya Technological University, Belgaum, during the year 2022-23 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

Head of the Department

Dept. of Civil Engineering

Dr. Vijayalakshmi Akella

K.S. School of Engineering & Management
Bangalore-560 052

Principal/ Director

Dr. K. RAMA NARASIMHA

Principal/Director

Dr. K. Rama Narasimha
K.S. School of Engineering and Management
Bengaluru - 560 109

University Examiners:

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, Bengaluru-560109



Department of Civil Engineering

Certificate

This is to certify that the project work entitled "EXPERIMENTAL STUDIES ON EFFECT OF LONG TERM LOADING ON BEAM" is a bonafide work carried out by

GURU PRASHANTH M	1KG17CV011
NAVEEN KUMAR S	1KG20CV407
PRAJWAL L V	1KG20CV408
VINODH M	1KG20CV415

in partial fulfilment for the award of Batchelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belgaum, during the year 2022-23. 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

Mr. Prashanth M
Assistant Professor
Dept. of Civil Engg.
KSSEM, Bengaluru

Head of the Department

Dr. Vijayalakshmi Akella
Professor and Head
Dept. of Civil Engg.
KSSEM, Bengaluru

Principal/ Director

Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109

Principal
KSSEM, Bengaluru

University Examiners:

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, Bengaluru-560109



Department of Civil Engineering

CERTIFICATE

This is to certify that project work entitled "Experimental Study on Durability Properties of Glass Fibers on Reinforced Concrete is a bonafide work carried out by

CHARAN. A	1KG19CV001
P. VIJAY	1KG19CV014
SAMARTHA S	1KG19CV018
SIDDHARTHA S	1KG19CV020

In partial fulfillment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2022-2023. 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. Manjunath B
Assistant Professor
Dept. of CV, KSSEM

Dr. Vijayalakshmi Akella
Professor & head
Dept. of CV, KSSEM
Professor & Head

Dr. K Rama Narasimha
Principal
KSSEM

Examiners

Name and Signature of Examiner-1

Dept. of Civil Engineering
K.S. Group of Institutions
K.S. School of Engineering & Management
Bangalore-560 062.

Dr. K. RAMA NARASIMHA
Principal/Director
K.S. School of Engineering and Management
Bengaluru - 560 109

Name and Signature of Examiner-2