



SAPTHAGIRI COLLEGE OF ENGINEERING
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
(Accredited by NAAC with 'A' Grade) & ISO 9001:2015 and 1400:2015 Certified Institute)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore – 560057

| AY :- 2021-22 | | | | PROJECT LIST |
|---------------|----------|----------------------|------------|--|
| Sl | Batch No | Name of the Students | USN | Title of the Project |
| 1 | 1 | KIRAN H D | 1SG18CV027 | Utilisation of black cotton soil in the manufacture of bricks |
| 2 | | PRUTHVIRAJ S | 1SG18CV040 | |
| 3 | | RENUPRASAD T | 1SG18CV045 | |
| 4 | | PRAJWAL S GOWDA | 1SG18CV067 | |
| 5 | 2 | CHANDANA KUMARI.S | 1SG19CV400 | M sand cement mortar with partial replacement of nano aluminium oxide |
| 6 | | SANJEEV KISHOR.P | 1SG19CV406 | |
| 7 | | SINDHUNATH.D. T | 1SG19CV407 | |
| 8 | | SRINIVAS.T. L | 1SG19CV408 | |
| 9 | 3 | DIVYA K | 1SG18CV016 | Analysis and design of multistorey buildings using cost effective material |
| 10 | | THUNGA B K | 1SG18CV059 | |
| 11 | | VAISHNAVI S YADAV | 1SG18CV061 | |
| 12 | | LINGRAJ | 1SG17CV027 | |
| 13 | 4 | CHANDANA.M | 1SG18CV011 | Determination of optimum binder content of bituminous concrete |
| 14 | | POOJA.S | 1SG18CV035 | |
| 15 | | PRAGATHI.R | 1SG18CV037 | |
| 16 | | SINDHU.C | 1SG18CV051 | |
| 17 | 5 | GURUCHARANA REDDY | 1SG18CV021 | SOLID WASTE MANAGEMENT |
| 18 | | DILIP K. S | 1SG18CV015 | |
| 19 | | HANUMANTHARAJA S C | 1SG18CV022 | |
| 20 | | NAVEEN GOWDA K R | 1SG18CV032 | |
| 21 | 6 | YASHAS. M | 1SG18CV064 | Improving compressive strength of the concrete by crushed aggregates |
| 22 | | DARSHAN.N | 1SG18CV013 | |
| 23 | | ABHISKEK MOHAN | 1SG18CV003 | |
| 24 | | VIVEK HEGDE | 1SG18CV063 | |
| 25 | 7 | TEJASWINI S D | 1SG18CV058 | Studies on properties of bricks with cyclonic filter resisting polluted air . |
| 26 | | PRIYADARSHINI P | 1SG18CV039 | |
| 27 | | GEETHA N | 1SG18CV019 | |
| 28 | 8 | TILAK H S | 1SG18CV060 | ANALYSIS AND DESIGN OF MULTILEVEL CAR PARKING |
| 29 | | SACHIN K C | 1SG18CV065 | |
| 30 | | DHANUSH K L | 1SG19CV402 | |
| 31 | | HARISH S R | 1SG19CV403 | |
| 32 | 9 | ANKITH KC | 1SG18CV008 | Analysis and design of a multilevel residential building using ETabs |
| 33 | | BHARATH P | 1SG18CV009 | |
| 34 | | MADHUSUDAN BS | 1SG18CV029 | |
| 35 | | ADHYA NK | 1SG18CV005 | |
| 36 | 10 | BRINDA P | 1SG18CV010 | Study of Strength Characteristics of Cladding Material using quarry dust and bio medical plastic waste |
| 37 | | POSHITHA AV | 1SG18CV036 | |
| 38 | | MEGHANA TS | 1SG18CV031 | |
| 39 | | PARINITHA J | 1SG18CV034 | |
| 40 | 11 | SHWETHA. R | 1SG18CV050 | SMART VILLAGE |
| 41 | | HARSHITHA. R. | 1SG18CV023 | |
| 42 | | SOWMYA. K. V. | 1SG18CV053 | |
| 43 | | KAVYA SHREE S | 1SG18CV025 | |
| 44 | 12 | RASOOL A | 1SG16CV063 | partial replacement of GGBS and FLYASH in cement |
| 45 | | MANJUNATH GOWDA H | 1SG17CV044 | |
| 46 | | SHREEJITH S | 1SG18CV408 | |
| 47 | | SUMANTH GOWDA S | 1SG16CV052 | |
| 48 | 13 | ANKITH KUMAR B | 1SG18CV401 | Application of solid waste management around Pavagada Taluk |
| 49 | | TEJAS GOWDA | 1SG17CV049 | |
| 50 | | NAIRA N | 1SG17CV047 | |
| 51 | | SURAJ J | 1SG17CV021 | |
| 52 | | AKSHATH GOWDA N | 1SG18CV006 | |

| | | | | |
|----|----|------------------|------------|--|
| 53 | 14 | YASHWANTH T P | 1SG18CV066 | RETROFITTING OF COLUMNS BY THE METHOD OF CONCRETE JACKETING |
| 54 | | DHRUVA KUMAR D L | 1SG18CV014 | |
| 55 | | ABHISHEK R | 1SG18CV004 | |
| 56 | 15 | VINAY R | 1SG18CV062 | TRANSLUCENT CONCRETE |
| 57 | | SANJAY SHARMA | 1SG18CV047 | |
| 58 | | KHALID MAQSOOD | 1SG18CV026 | |
| 59 | | ISHAQUE AHMED | 1SG18CV024 | |
| 60 | 16 | RAHUL H. J | 1SG18CV042 | Analysis and design of a warehouse using etabs |
| 61 | | ABHISHEK M. V | 1SG18CV002 | |
| 62 | | ABHISHEK G. A | 1SG18CV001 | |
| 63 | | PRAJWAL S | 1SG18CV038 | |
| 64 | 17 | TEJAS N | 1SG18CV056 | EXPERIMENTAL STUDY ON DENSE BITUMINOUS MACADAM USING CRUMB RUBBER |
| 65 | | RAVIKUMAR | 1SG18CV043 | |
| 66 | | TEJAS S RAM | 1SG18CV057 | |
| 67 | | SUNIL YADAV | 1SG18CV054 | |
| 68 | 18 | ANANYA S | 1SG18CV007 | EXPERIMENTAL INVESTIGATION ON DURABILITY OF CONCRETE BY REPLACING NATURAL SAND BY MANUFACTURING SAND |
| 69 | | GANAVI N | 1SG18CV017 | |
| 70 | | SINDHU H S | 1SG18CV052 | |
| 71 | | REKHA M | 1SG18CV044 | |
| 72 | 19 | SUSHMA M | 1SG18CV055 | SELF COMPACTING CONCRETE |
| 73 | | POOJA S | 1SG19CV405 | |
| 74 | | CHETHAN GOWDA D | 1SG19CV401 | |
| 75 | | PUSHPALATHA H. | 1SG18CV041 | |



Principal

Sapthagirl College of Engineering
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Bengaluru - 560 057



HOD CV

Dept. of Civil Engg.
S.C.E, Bangalore-560 057.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



A PROJECT REPORT ON
"UTILIZATION OF BLACK COTTON SOIL IN THE
MANUFACTURE OF BRICKS"

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

In

CIVIL ENGINEERING

Submitted By:

KIRAN H D
PRUTHVI RAJ S
RENUKAPRASAD T
PRAJWAL S GOWDA

USN: 1SG18CV027
USN: 1SG18CV040
USN: 1SG18CV045
USN: 1SG18CV067

Under the Guidance Of:

Dr RAJESHWARI R

Professor and Head

Department of Civil Engineering



Principal
Sapthagiri College of Engineering
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Bengaluru - 560 057

DEPARTMENT OF CIVIL ENGINEERING

SAPTHAGIRI COLLEGE OF ENGINEERING

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#14/5, Chikkasandra, Hesareghatta Main Road, Bangalore - 560057

2021-22

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU – 560057

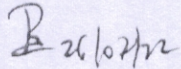
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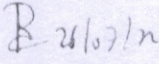
DEPARTMENT OF CIVIL ENGINEERING

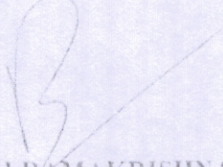


CERTIFICATE

It is Certified that the project work entitled with "UTILIZATION OF BLACK COTTON SOIL IN THE MANUFACTURE OF BRICKS" is a bonafied work carried out by team associates KIRAN H D (ISG18CV027), PRUTHVI RAJ S (ISG18CV040), RENUKA PRASAD T (ISG18CV045), PRAJWAL S GOWDA (ISG18CV067), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.


Dr. RAJESWARI R
PROFESSOR
Department of Civil Engineering
S.C.E, Bengaluru

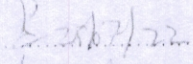
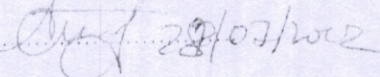

Dr. RAJESHWARI R
H.O.D
Department of Civil Engineering
S.C.E, Bengaluru



Dr. H RAMAKRISHNA
PRINCIPAL
S.C.E, Bengaluru

Name of Examiner

- 1) Dr. Rajeswari R
- 2) Anurag

Signature of the Examiner with date

- 1)  28/07/22
- 2)  28/07/2022


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Bengaluru - 560 057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



A
PROJECT PHASE 2 REPORT ON
"EFFECTS OF PARTIAL REPLACEMENT OF CEMENT WITH NANO
ALUMINA OXIDE ON MECHANICAL PROPERTIES OF M-SAND
CEMENT MORTAR"

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

In

CIVIL ENGINEERING

Submitted By:

CHANDANA KUMARI S

USN: 1SG19CV400

SANJEEV KISHOR P

USN: 1SG19CV406

SINDHUNATH D T

USN: 1SG19CV407

SRINIVASA T L

USN: 1SG19CV408

Under The Guidance Of:

Prof. BHAVYACH

Asst. Professor

SAPTHAGIRI
COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, BENGALURU - 560 057

Principal

Sapthagiri College of Engineering
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2021-22

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"JNANA SANGAMA", BELAGAVI-590018



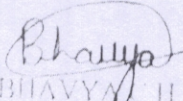
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560057

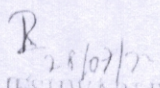
DEPARTMENT OF CIVIL ENGINEERING

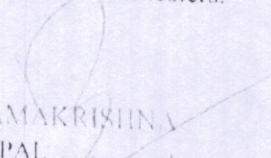
SAPTHAGIRI
COLLEGE OF ENGINEERING

CERTIFICATE

It is Certified that the project work phase I entitled with "EFFECTS OF PARTIAL REPLACEMENT OF CEMENT WITH NANO ALUMINIUM OXIDE ON MECHANICAL PROPERTIES OF M SAND CEMENT MORTAR" is a bonafied work carried out by team associates CHANDANA KUMARI S (ISG19CV400), SANJEEV KISHOR P (ISG19CV406), SINDHUNATH D T (ISG19CV407), SRINIVASA T L (ISG19CV408), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.


BHAVYA H
Asst. professor
Department of Civil Engineering
S C E, Bengaluru


HOD RAMESHWAR
S.C.E, HOD 560057
Department of Civil Engineering
S C E, Bengaluru

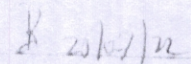

PRINCIPAL
S.C.E, Bengaluru
Sapthagiri College of Engineering
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Bangalore-560 057

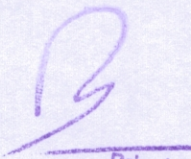
Name of the examiner

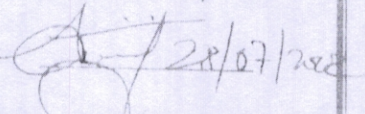
1. Dr. Rajeshwari R

2. Akhaya J

Signature with date


28/07/22


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057


28/07/22

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



PROJECT REPORT

ON

**"ANALYSIS AND DESIGN OF MULTISTOREY
BUILDING WITH COST EFFECTIVE MATERIALS"**

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

In

CIVIL ENGINEERING

Submitted By:

LINGRAJ

USN: 1SG17CV027

DIVYA K

USN: 1SG18CV016

THUNGA B K

USN: 1SG18CV059

VAISHNAVI S YADAV

USN: 1SG18CV061

Under The Guidance Of:

Mr. PRAMOD K R

Asst. Professor



DEPARTMENT OF CIVIL ENGINEERING

SAPTHAGIRI COLLEGE OF ENGINEERING

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2021-22

Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU - 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is certified that the project work entitled with "ANALYSIS AND DESIGN OF MULTISTOREY BUILDING WITH COMPOSITE MATERIAL" is a bonafied work carried out by team associates LINGRAJ (ISG17CV027), DIVYA K (ISG18CV016), THUNGA B K (ISG18CV059), VAISHNAVI S YADAV (ISG18CV061), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.

Mr. PRAMOD K R
GUIDE

Assistant. professor
Department of Civil Engineering
S.C.E, Bengaluru

Dr. RAJESHWARI

H.O.D
Department of Civil Engineering
S.C.E, Bengaluru

Dr. H RAMAKRISHNA

PRINCIPAL
S.C.E, Bengaluru

Name of the examiner

1. Dr. Rajeshwari K
2. A. K. Ramesh / S

Signature with date

R 28/7/22
Chief 28/7/2022

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI-590018, KARNATAKA.



A PROJECT REPORT

On

**"DETERMINATION OF OPTIMUM BINDER CONTENT OF
BITUMINOUS CONCRETE GRADE-1"**

Submitted in Partial Fulfillment for the Award of the Degree of

BACHELOR OF ENGINEERING

IN

CIVIL ENGINEERING

Submitted By:

CHANDANA M
POOJA S
PRAGATHI R
SINDHU C

USN: 1SG18CV011
USN: 1SG18CV035
USN: 1SG18CV037
USN: 1SG18CV051

Under the Guidance of

Mr. AKSHAY J

Asst. Professor

Dept. of Civil Engineering



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2021-2022

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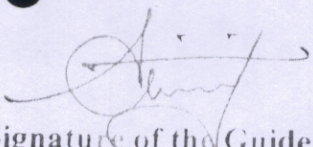
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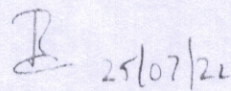
SAPTHAGIRI
College of Engineering
Creating Tomorrow


Department of Civil Engineering

Certificate

Certified that the Project Work entitled "DETERMINATION OF OPTIMUM BINDER CONTENT OF BITUMINOUS CONCRETE" carried out by CHANDANA M (ISG18CV011), POOJA S (ISG18CV035), PRAGATHI R (ISG18CV035), SINDHU C (ISG18CV051), bonafide students of Sapthagiri College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The project report has been approved as it satisfies the academic requirements in respect of Project prescribed for the said degree.


Signature of the Guide
Prof. Akshay J
Department of Civil
Engineering

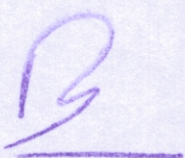

Signature of the HOD
Dr. Rajeshwari R
Head of the Department
Dept. of Civil Engineering

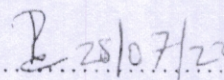

Signature of the Principal
Dr. H. Ramkrishna
Principal
Sapthagiri College of Engineering

Name of the Examiner

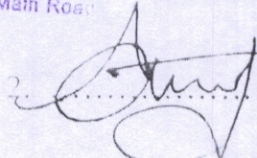
Signature of the Examiner with date

1. Dr. Rajeshwari R


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057


28/07/22

2. Akshay J


28/7/2022

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI, KARNATAKA-590 018



A Project Report
On
“ SOLID WASTE MANAGEMENT: A CASE STUDY OF
GAURIBIDANURU ”

Submitted in partial fulfillment of the requirement for the award of

Bachelor of Engineering

In

Civil Engineering

Submitted by:

| | |
|------------------------------|-------------------|
| DILIP K S | 1SG18CV015 |
| HANUMANTHARAJA S C | 1SG18CV022 |
| NAVEEN GOWDA K R | 1SG18CV032 |
| GURUCHARANA REDDY P S | 1SG18CV021 |


Under the guidance of
Dr. RAJESHWARI R
Associate Professor & HOD



Department of Civil Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING
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2021-2022


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560 077



CERTIFICATE

Certified that the Project work entitled **"SOLID WASTE MANAGEMENT: A CASE STUDY OF GAURIBIDANURU"** carried out by bonafide students of 8th semester, **DILIP KS (1SG18CV015), HANUMANTHARAJA S C (1SG18CV022), NAVEEN GOWDA K R (1SG18CV032), GURUCHARANA REDDY P S(1SG18CV021)**, Department of Civil Engineering carried out at college **Sapthagiri College of Engineering, Bengaluru** in partial fulfillment of the award of **Bachelor Of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi** during the year 2021-22. It is certified that all corrections/suggestions indicated for Final 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 said Degree.

26/07/22

Signature of the Guide
Dr. Rajeshwari R
Associate Prof. and Head

26/07/22

Signature of the HOD
Dr. Rajeshwari R
Associate Prof. and Head

Signature of the Principal
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

EXTERNAL EXAMINATION

1. Dr. Rajeshwari R
2. Atul

Signature with Date

26/07/22
28/7/2022

VISVESVARAYA TECHNOLOGICAL
UNIVERSITY "JNANASANGAMA", BELAGAVI



A

PROJECT PHASE 2 REPORT

ON

"IMPROVING THE COMPRESSIVE STRENGTH OF CONCRETE BY
USING CRUSHED AGGREGATE - GRANITE POWDER AS
FILLER MATERIAL."

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING
In
CIVIL ENGINEERING

Submitted By:

ABHISKEK MOHAN
DARSHAN.N
VIVEK HEGDE
YASHAS. M

USN: 1SG18CV003
USN: 1SG18CV013
USN: 1SG18CV063
USN: 1SG18CV064

UNDER THE GUIDANCE OF

Prof. KAVYA .H. P

Asst.Professor

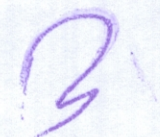


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2021-22


Principal
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VISVESVARAYA TECHNOLOGICAL
UNIVERSITY "JNANASANGAMA", BELAGAVI



SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU - 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is Certified that the projectwork phase 2 entitled "Improving the compressive strength of concrete by using crushed aggregate - Granite powder as Filler material." Is a bonafide work carried out by team associates ABHISKEK MOHAN (ISG18CV003), DARSHAN.N (ISG18CV013), VIVEK HEGDE (ISG18CV063), YASHAS.M (ISG18CV064), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of the academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.

Signature of the Guide

Prof. Kavya .H. P

Assistant Professor

25/07/22

Signature of the HOD

Dr. Rajeshwari.R

HOD

Signature of the Principal

Dr. H. Ramakrishna

Principal

EXTERNAL EXAMINATION

Name of the Examiner

- 1.
- 2.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesarghatta Main Road
Bengaluru - 560 057

Signature with Date:

25/07/22
 28/7/2022

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY JNANA
SANGAMA, BELAGAVI-590018, KARNATAKA**



A PROJECT REPORT ON

“STUDY ON BREATHE BRICKS”

Submitted by partial fulfilment of the requirement of the degree of
Bachelor of Engineering in

CIVIL ENGINEERING

SUBMITTED BY

Ms. GEETHA N (1SG18CV019)

Ms. PRIYADARSHINI P(1SG18CV039)

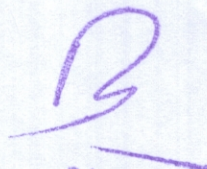
Ms. TEJESWINI S D (1SG18CV058)

Under the Guidance of

Prof. AKSHAY J

Asst. Professor




Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesarghatta Main Road
Bengaluru - 56

DEPARTMENT OF CIVIL ENGINEERING
SAPTHAGIRI COLLEGE OF ENGINEERING

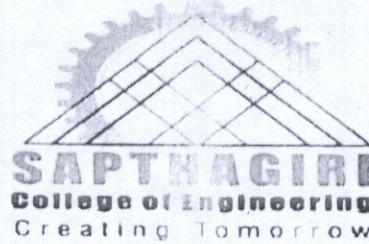
(Accredited by NAAC with "A" grade)

(An ISO 9001:2015 & ISO 14001:2015 Certified Institution) (Affiliated to VTU, Belagavi and approved by
AICTE, New Delhi) 14/5, Chikkasandra, Hesarghatta Main Road, Bengaluru-560057

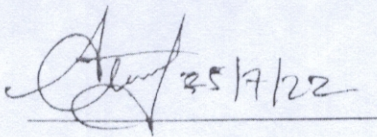
SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560057
(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)

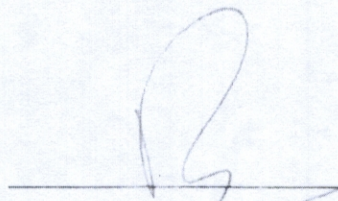
DEPARTMENT OF CIVIL ENGINEERING



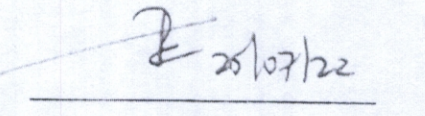
It is Certified that the project work entitled with "STUDY ON BREATHE BRICKS" is a bonafide work carried out by team associates Ms. Geetha N (ISG18CV019), Ms. Priyadarshini P (ISG18CV039), Ms. Tejeswini S D (ISG18CV058) in partial fulfilment of the requirements as prescribed by Visvesvaraya Technological University, Belagavi, for the award of Bachelor Degree in Civil Engineering during the academic year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.



Signature of the Guide
Prof. AKSHAY J
Assistant Professor



Signature of the Principal
Dr. H Ramakrishna
Principal
SCE, Bengaluru.

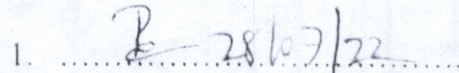


Signature of the HOD
Dr. R. RAJESHWARI
Department of Civil Engineering

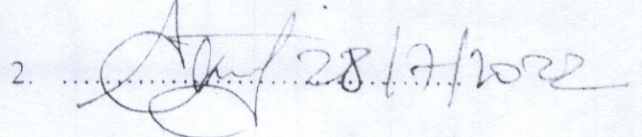
Name of the Examiner

Signature of the Examiner with date

1. Dr. Rajeshwari R

1. 

2. Akshay J

2. 

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI, KARNATAKA-590 018**



**A Project Report
On
"ANALYSIS AND DESIGN OF MULTILEVEL CAR
PARKING"**

Submitted in partial fulfillment of the requirement for the award of

**Bachelor of engineering
In
Civil Engineering**

Submitted by:

| | |
|--------------------|-------------------|
| TILAK H S | 1SG18CV060 |
| SACHIN K C | 1SG18CV065 |
| DHANUSH K L | 1SG19CV402 |
| HARISH S R | 1SG19CV403 |

Under the guidance of
Prof. Shobha Y N
Assistant Professor

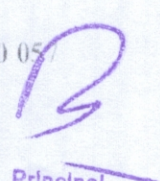


**Department of Civil Engineering
SAPTHAGIRI COLLEGE OF ENGINEERING**

Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi.
(ISO 9001:2015 & ISO 14001:2015 Certified Institute)

Accredited By NAAC with "A" Grade
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560 057

2021-2022


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

Affiliated to VTU Belagavi. Approved by AICTE, NEW DELHI

Accredited by NAAC with 'A' grade

(ISO 9001-2015 & ISO14001-2015 Certified Institute)

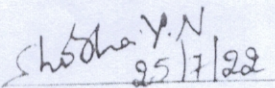
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057.

Department of Civil Engineering

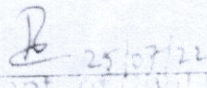


CERTIFICATE

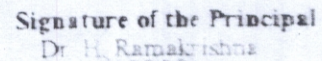
Certified that the Project work entitled "ANALYSIS AND DESIGN OF MULTILEVEL CAR PARKING" carried out by bonafide students of 8th semester. Tilak H S (ISG18CV060), Sachin K C (ISG18CV065), Dhanush K L (ISG19CV402), Harish S R (ISG19CV403), Department of Civil Engineering carried out at college Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor Of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Final 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 said Degree.


25/7/22

Signature of the Guide
Prof. Shobha Y N
Assistant Professor

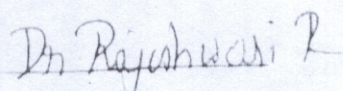
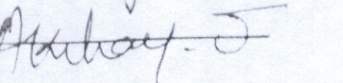

25/07/22

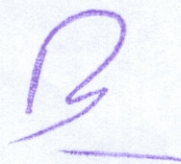
Signature of the HOD
Dr. Rajeshwari R.
Associate Prof. and Head


Signature of the Principal
Dr. H. Ramakrishna
Principal

EXTERNAL EXAMINATION

Name of the Examiner

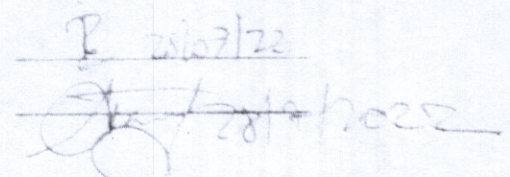
1. 
2. 



Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature with Date


25/07/22

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



A PROJECT REPORT ON
"ANALYSIS AND DESIGN OF MULTISTOREY RESIDENTIAL
BUILDING USING ETABS"

Submitted in partial fulfillment for the award of the degree of
BACHELOR OF ENGINEERING
In
CIVIL ENGINEERING
Submitted By:

ADHYA N K
ANKITH K C
BHARATH P
MADHUSUDAN B S

USN: 1SG18CV005
USN: 1SG18CV008
USN: 1SG18CV009
USN: 1SG18CV029


Under the Guidance Of:
Prof. PALLAVI G A
Asst. Professor



DEPARTMENT OF CIVIL ENGINEERING
SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
(Accredited by NAAC with 'A' Grade) & ISO 9001:2015 and 1400:2015 Certified Institute)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560057

2021-22


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU - 560057

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
(Accredited by NAAC with 'A' Grade) & ISO 9001:2015 and 1400:2015 Certified Institute)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is Certified that the project work phase 1 entitled with "ANALYSIS AND DESIGN OF MULTISTOREY RESIDENTIAL BUILDING USING ETABS" is a bonafied work carried out by team associates ADHYA N K (ISG18CV005), ANKITH K C (ISG18CV008), BIHARATH P (ISG18CV009), MADHUSUDAN B S (ISG18CV029), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.

Prof. Pallavi G
20/7/2022
Prof. PALLAVI G
Asst. professor
Department of Civil Engineering
S.C.E, Bengaluru

B
Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560057

B 20/07/22
Dr. RAJESHWARI R
H.O.D
Department of Civil Engineering
S.C.E, Bengaluru

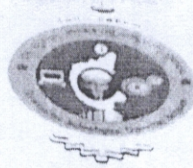
Dr. Rajeshwari R

Abhay S

Dept. of Civil Engg.
Bengaluru - 560057.

B 28/7/22
28/7/2022

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



A PROJECT REPORT ON
"STRENGTH CHARACTERISTICS OF CLADDING MATERIAL USING
CEMENT AS BASE MATERIAL AND PLASTIC FROM BIOMEDICAL
WASTE AS ADDITIVE"

Submitted in partial fulfillment for the award of the degree of
BACHELOR OF ENGINEERING

In
CIVIL ENGINEERING
Submitted By:

BRINDA P
MEGHANA T S
PARINITHA J
POSHITHA A V

USN: 1SG18CV010
USN: 1SG18CV031
USN: 1SG18CV034
USN: 1SG18CV036

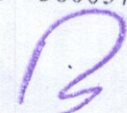
Under the Guidance Of:
Prof. NAGARJUN GOWDAB S
Asst. Professor



DEPARTMENT OF CIVIL ENGINEERING
SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
(Accredited by NAAC with 'A' Grade) & ISO 9001:2015 and 1400:2015 Certified Institute)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560057

2021-22


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU – 560057

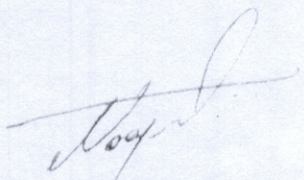
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
(Accredited by NAAC with 'A' Grade) & ISO 9001:2015 and 1400:2015 Certified Institute)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore – 560057

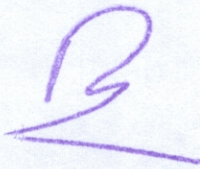
DEPARTMENT OF CIVIL ENGINEERING

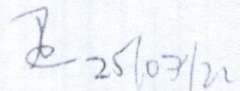


CERTIFICATE

It is Certified that the project work phase 1 entitled with "STRENGTH CHARACTERISTICS OF CLADDING MATERIAL USING CEMENT AS BASE MATERIAL AND PLASTIC FROM BIOMEDICAL WASTE AS ADDITIVE" is a bonified work carried out by team associates BRINDA P (ISG18CV010), MEGHANA T S (ISG18CV031), PARINITHA J (ISG18CV034), POSHITHA A V (ISG18CV036), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.


Prof. NAGARJUN GOWDA B S
Asst. professor
Department of Civil Engineering
S.C.E, Bengaluru


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057


Dr. RAJESHWARI R
H.O.D
Department of Civil Engineering
S.C.E, Bengaluru

VISVESVARAYA TECHNOLOGICAL UNIVERSITY "JNANASANGAMA", BELAGAVI-
590018



A
PROJECT WORK REPORT
ON
SMART VILLAGE

Submitted in partial fulfillment for the award of the degree of
BACHELOR OF ENGINEERING
In
CIVIL ENGINEERING

Submitted By

HARSHITHA R
KAVYA SHREE S
SHWETHA R
SOWMYA K V

USN:1SG18CV023
USN:1SG18CV025
USN:1SG18CV050
USN:1SG18CV053

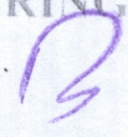
UNDER THE GUIDANCE OF
Dr. RAJESHWARI R
HEAD OF DEPARTMENT
DEPARTMENT OF CIVIL ENGINEERING



SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road,
BENGALURU 560057.

2021-22


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY "JNANASANGAMA", BELAGAVI-
590018



SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU -560057

(Affiliated to VTU, Belagavi & approved by AICTE, New Delhi)
(Accredited by NAAC with 'A' Grade & ISO 9001:2015 and 1400: certified institute
#14/5, Chikkasandra, Hesaraghatta main road, banglore-560057)

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is to certify that the Project work entitled with "SMART VILLAGE: A CASE STUDY OF GUNGURUMALE VILLAGE" is a bonafide work carried out by team associates HARSHITHA R(1SG18CV023), KAVYA SHREE S(1SG18CV025), SHWETHA R(1SG18CV050), SOWMYA KV(1SG18CV053), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering degree 7th and 8th semesters.

E 25/6/22

Signature of the Guide
Dr. RAJESHWARI R
HOD

Department of Civil Engineering
SCE, Bengaluru

B 25/6/22

Signature of the HOD
Dr. RAJESHWARI R
HOD

Department of Civil Engineering
SCE, Bengaluru

B

Signature of the Principal
Dr. H Ramakrishna
Principal

Sapthagiri College of Engineering
Principal

Name of the examiner

1... *Pallavi G A*

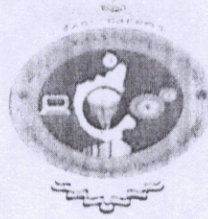
2.....

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature of the examiner with date
Pallavi G A 24/7/22
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bengaluru, 560 057

2.....

VIVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA" BELAGAVI-590018



PROJECT REPORT
ON
"PARTIAL REPLACEMENT OF GGBS AND FLY ASH
IN CEMENT"

Submitted in partial fulfilment for the award of the degree of
BACHELOR OF ENGINEERING

In
CIVIL ENGINEERING

Submitted By

RASOOL A

MANJUNATH GOWDA H

SHREEJITH S

USN: 1SG16CV063

USN: 1SG18CV408

USN: 1SG17CV044

UNDER THE GUIDANCE OF
Mr. PRAMOD K R
ASSISTANT PROFESSOR
DEPARTMENT OF CIVIL



DEPARTMENT OF CIVIL ENGINEERING

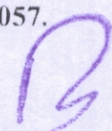
SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi & approved by AICTE, New delhi)

(Accredited by NAAC with 'A' Grade & ISO 9001:2015 & 1400:2015 Certified Institute)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057.

2021-22


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU – 560057

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
(Accredited by NAAC with 'A' Grade) & ISO 9001:2015 and 1400:2015 Certified Institute)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore – 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is Certified that the project work phase 1 entitled with "PARTIAL REPLACEMENT OF GGBS & FLY ASH IN CEMENT" is a bonafide work carried out by team associates RASOOL A (ISG16CV063), MANJUNATH GOWDA H (ISG18CV408), SHREEJITH S (ISG17CV044) in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections/suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.

Prof. PRAMOD K R
Asst. professor

Department of Civil Engineering
S.C.E, Bengaluru

Dr. RAJESHWAR R
H.O.D

Department of Civil Engineering
S.C.E, Bengaluru

Dr. H RAMAKRISHNA
Principal

S.C.E, Bengaluru

Name of the examiner

1. Dr. Rajeshwar R
2. BHAVYA CH

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature of the examiner with date.

1. 20/07/22
2. Bhavya 30/7/2022

VIVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA" BELAGAVI-590018



A

PROJECT WORK REPORT 2

ON

APPLICATION ON SOLID WASTE MANAGEMENT
IN KANIVENAHALLI, PAVAGADA TALUK,
TUMKUR DISTRICT.

Submitted in partial fulfilment for the award of the degree of
BACHELOR OF ENGINEERING

In

CIVIL ENGINEERING

Submitted By

J. SURAJ

NAIRA .N

TEJAS G.V

ANKITH KUMAR .B

USN: ISG17CV021

USN: ISG17CV047

USN: ISG17CV049

USN: ISG18CV401


UNDER THE GUIDANCE OF
DR .RAJESHWARI R
HEAD OF THE DEPARTMENT

SAPTHAGIRI
College of Engineering
Bengaluru - 560 057

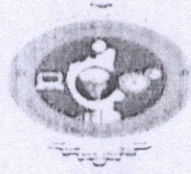
DEPARTMENT OF CIVIL ENGINEERING

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta
Main Road, Bengaluru 560057


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

VIVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA" BELAGAVI-590018



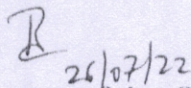
SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU 560057

DEPARTMENT OF CIVIL ENGINEERING

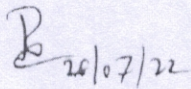
SAPTHAGIRI
COLLEGE OF ENGINEERING

CERTIFICATE

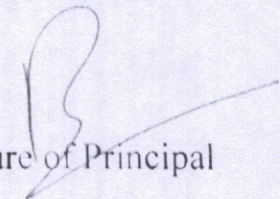
Certified that the project work phase II entitled with "APPLICATION OF SOLID WASTE MANAGEMENT IN KANIVENAHALLI, PAVAGADA TALUK, TUMKURU DIST. and KARNATAKA, INDIA" carried out by, J SURAJ(1SG17CV021), NAIRAN(1SG17CV047), TEJAS GV(1SG17CV049), ANKITH KUMAR B(1SG18CV401), a bonafide student of civil engineering in partial fulfilment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.


Signature of the Guide

Dr Rajeshwari R


Signature of the HOD

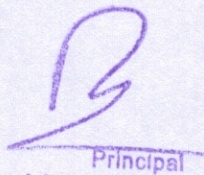
Dr Rajeshwari R


Signature of Principal

Dr. H Ramakrishna

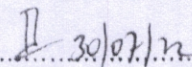
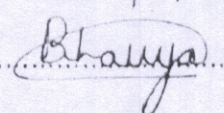
External Examiners

1. Dr. Rajeshwari R
2. BHAVYA CH


Principal

Sapthagiri College of Engineering
14/5, Chikkaasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature of the examiner

1.  30/07/22
2.  30/7/2022

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



A PROJECT REPORT ON
"RETROFITTING OF COLUMN BY RC JACKETING"

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

In

CIVIL ENGINEERING

Submitted By:

DHRUVA KUMAR, D L
AKSHATH GOWDA, N K
ABHISHEK, R
YASHWANTH, T P

USN:1SG18CV014
USN:1SG18CV006
USN:1SG18CV004
USN:1SG18CV066

Under the Guidance of

PRAMOD K R

Asst. Professor

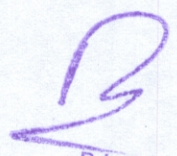


DEPARTMENT OF CIVIL ENGINEERING

SAPTHAGIRI COLLEGE OF ENGINEERING

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(Accredited by NAAC with 'A' Grade) & ISO 9001:2015 and 14001:2015 Certified Institute)
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2021-22


Principal
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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BENGALURU - 560057

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#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560057

DEPARTMENT OF CIVIL ENGINEERING

SAPTHAGIRI
College of Engineering

CERTIFICATE

It is Certified that the project work phase 1 entitled with "RETROFITTING OF COLUMN BY RC JACKETING" is a bonafide work carried out by team associates DHRUVA KUMAR DL (ISG18CV014), AKSHATH GOWDAN K (ISG18CV006), ABHISHEK R (ISG18CV004), YASHWANTHI T P (ISG18CV066), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.

Prof. PICHAMOD K R
Asst. professor
Department of Civil Engineering
S.C.E, Bengaluru

Dr. RAJESHWARI R
H.O.D.
Department of Civil Engineering
S.C.E, Bengaluru

Dr. H RAMAKRISHNA
Principal
S.C.E, Bengaluru

- Name of the examiner
1. Pallavi G. A.
 2.

Signature of the examiner with date.

1. Pallavi G. A. 29/7/22
2.

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta
Bengaluru - 560057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



A

PROJECT REPORT ON
"TRANSLUCENT CONCRETE"

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

In
CIVIL ENGINEERING

Submitted By

ISHAQUE AHMED K M
KHALID MAQSOOD MIR
SANJAY SHARMA S
VINAY R

USN: 1SG18CV024
USN: 1SG18CV026
USN: 1SG18CV047
USN: 1SG18CV062

UNDER THE GUIDANCE OF

Ms. KAVYA H P

Asst. Professor



DEPARTMENT OF CIVIL ENGINEERING

SAPTHAGIRI COLLEGE OF ENGINEERING

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



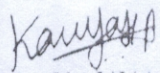
SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU - 560057

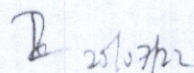
DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is Certified that the project work entitled with "TRANSLUCENT CONCRETE" is a bonafide work carried out by team associates KHALID MAQSOOD MIR (ISG18CV026), ISHAQUE AHMED K M (ISG18CV024), VINAY R (ISG18CV062), SANJAY SHARMA S (ISG18CV047) in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2020-2021. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.


Prof. "KAVYA H P"
Asst. professor
Department of Civil Engineering
S.C.E, Bengaluru.

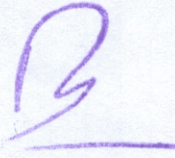

Dr. RAJESHWARI
H.O.D
Department of Civil Engineering
S.C.E, Bengaluru.

Name of the Examiner

Signature of the Examiner with
date

1. Pallavi G. A
2. Dr. Rajeshwari R

1. Pallavi G. A 29/7/22
2. Dr. Rajeshwari R 29/07/22


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesarahotta
Bengaluru



PROJECT REPORT

ON

**"ANALYSIS AND DESIGN OF MULTISTOREY
BUILDING USING ETABS"**

Submitted in partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

In

CIVIL ENGINEERING

Submitted By

ABHISHEK, G A
ABHISHEK, M Y
PRAJWAL, S
RAHUL, H J

USN: ISG18CV001
USN: ISG18CV002
USN: ISG18CV038
USN: ISG18CV042

UNDER THE GUIDANCE OF

Prof. PRAMOD K R

Asst. Professor



DEPARTMENT OF CIVIL ENGINEERING

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Road, BENGALURU 560057.

2021-22

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Bengaluru - 560057

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"JNANA SANGAMA", BELAGAVI-590018



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BENGALURU – 560057

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#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore – 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is Certified that the project work phase 2 entitled with "ANALYSIS AND DESIGN OF MULTISTOREY BUILDING USING ETABS" is a bonafide work carried out by team associate ABHISHEK G A (ISG18CV001), ABHISHEK M V (ISG18CV002), PRAJWAL S (ISG18CV038), RAHUL H J (ISG18CV042) in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.

Prof. PRAMOD K R
Asst. professor

Department of Civil Engineering
S.C.E, Bengaluru

Dr. RAJESHWARI R
H.O.D

Department of Civil Engineering
S.C.E, Bengaluru

Dr. H RAMAKRISHNA
Principal,
S.C.E, Bengaluru

Name of the examiner

Signature of the examiner with date

1. Pallavi G. A
2. Dr. Rajeshwari R

1. Pallavi G. A 29/7/22
2. B 29/07/22

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560057

**VISVESVARAYATECHNOLOGICALUNIVERSITY
JNANA SANGAM, BELGAVI-590018,KARNATAKA**



**PROJECT REPORT ON
“AN EXPERIMENTAL INVESTIGATION ON DURABILITY
OF CONCRETE PRODUCED BY REPLACING NATURAL
SAND WITH MANUFACTURED SAND”**

Submitted in Partial Fulfillment of the Requirement of the degree

Bachelor of Engineering

in

CIVIL ENGINEERING

SUBMITTED BY:

ANANYA S

1SG18CV007

GANAVI N

1SG18CV017

REKHA M

1SG18CV044

SINDHU H S

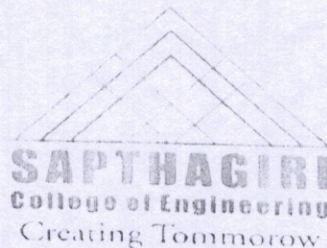
1SG18CV052

Under the Guidance of:

Dr. RAJESHWARI R

HEAD OF THE DEPARTMENT

DEPT. OF CIVIL ENGINEERING



SAPTHAGIRI COLLEGE OF ENGINEERING

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2021-22

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Bengaluru - 560 057

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#14/5, Chikkasandra, Hesaraghatta Main Road,
BENGALURU - 560057.

DEPARTMENT OF CIVIL ENGINEERING



This is to certify that the Project work entitled "AN EXPERIMENTAL INVESTIGATION ON DURABILITY OF CONCRETE PRODUCED BY REPLACING NATURAL SAND WITH MANUFACTURED SAND" is a bonafide work carried out by ANANYA S (ISG18CV007), GANAVI N (ISG18CV017), REKHA M (ISG18CV007), SINDHU H S (ISG18CV052), in partial fulfilment of the Academic requirement in Eighth Semester "Bachelor of Engineering in Civil Engineering" from Visvesvaraya Technological University, Belagavi, in the academic year 2021-22. All corrections/suggestion indicated for Internal Assessment have been incorporated in this report. The seminar report has been approved as it satisfies the academic requirements for the Bachelor of Engineering Degree in CIVIL Engineering.

Dr. 25/7/22

Signature of the Guide
Dr. RAJESHWARI R
Professor

Dr. 28/07/22

Signature of the HOD
HOD Dr. RAJESHWARI R
Head of the Department

Dr. 28/07/22

Signature of the Principal
Dr. H RAMAKRISHNA
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bengaluru - 560057

Name of the Examiner

Signature of the Examiner with date

1. Pallavi G. A.

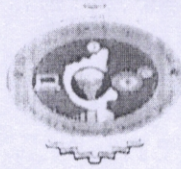
2.

Dr. 28/07/22

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

1. Pallavi G. A.

2.



A PROJECT REPORT ON
"EXPERIMENTAL STUDY OF DENSE BITUMINOUS
MACADAM USING CRUMB RUBBER"

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

In

CIVIL ENGINEERING

Submitted By:

**RAVIKUMAR
SUNIL YADAV
TEJAS N
TEJAS S RAM**

**USN:1SG18CV043
USN: 1SG18CV054
USN: 1SG18CV056
USN:1SG18CV057**

Under the Guidance Of:

Prof. PALLAVI G A

Asst. Professor

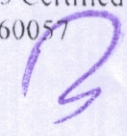


DEPARTMENT OF CIVIL ENGINEERING

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#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560057

2021-22


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Bangalore - 560 057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



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#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is Certified that the project work entitled with "EXPERIMENTAL STUDY OF DENSE BITUMINOUS MACADAM USING CRUMB RUBBER" is a bonafide work carried out by team associate RAVIKUMAR (ISG18CV043), SUNIL YADAV (ISG18CV054), TEJAS N (ISG18CV056), TEJAS S RAM (ISG18CV057) in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.

Prof. PALLAVI G.A.
Asst. professor

Department of Civil Engineering
S.C.E. Bengaluru

Dr. RAJESHWARI R.
H.O.D

Department of Civil Engineering
S.C.E. Bengaluru

Dr. H. RAMAKRISHNA
Principal,
S.C.E. Bengaluru

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road

Name of the examiner

Signature of the examiner with date.

1. Pallavi G.A.
2. Dr. Rajeshwari R.

1. 29/07/22
2. 29/07/22

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057




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| AY-2021-22 | | INTERNSHIP WORK (18 CVI 84) | |
|------------|-----------------------|-----------------------------|--|
| Sl | Name of the Students | USN | Title of the Project |
| 1 | DIVYA K | 1SG18CV016 | Widening of road |
| 2 | HARSHITHA R | 1SG18CV023 | |
| 3 | KAVYA SHREE S | 1SG18CV025 | |
| 4 | POOJA S | 1SG18CV035 | |
| 5 | PRAGATHI R | 1SG18CV037 | |
| 6 | SHWETHA R | 1SG18CV050 | |
| 7 | NAIRA N | 1SG17CV047 | |
| 8 | TEJAS G V | 1SG17CV049 | |
| 9 | ANKITH KUMAR | 1SG18CV401 | |
| 10 | ANKITH K C | 1SG18CV008 | Production of Prestress Sleepers |
| 11 | BHARATH P | 1SG18CV009 | |
| 12 | ABHISHEK M V | 1SG18CV002 | |
| 13 | MADHUSUDHAN B S | 1SG18CV029 | Shobha Rajvilas-Residential and Commercial Building |
| 14 | ANANYA S | 1SG18CV007 | |
| 15 | GANAVI N | 1SG18CV017 | |
| 16 | REKHA M | 1SG18CV044 | |
| 17 | SINDHU H S | 1SG18CV052 | Residential and Commercial Building |
| 18 | MEGHANA T S | 1SG18CV031 | |
| 19 | PARINITHA J | 1SG18CV034 | |
| 20 | BRINDA P | 1SG18CV010 | Multi level car storage parking |
| 21 | GEETHA N | 1SG18CV019 | |
| 22 | POSHITHA A V | 1SG18CV036 | |
| 23 | PRIYADARSHINI P | 1SG18CV039 | |
| 24 | TEHESHWINI S D | 1SG18CV058 | |
| 25 | CHANDANA M | 1SG18CV011 | |
| 26 | SINDHU C | 1SG18CV051 | |
| 27 | ABHISHEK R | 1SG18CV004 | Construction of Multi storey building |
| 28 | AKSHATH GOWDA N K | 1SG18CV006 | |
| 29 | DHRUVA KUMAR D L | 1SG18CV014 | |
| 30 | SANJAY SHARMA S | 1SG18CV047 | Public work department- Road design and traffic census |
| 31 | VINAY R | 1SG18CV062 | |
| 32 | ABHISHEK G A | 1SG18CV001 | Contilever Planning and 3D modelling |
| 33 | PRAJWAL S | 1SG18CV038 | |
| 34 | RAVIKUMAR | 1SG18CV043 | |
| 35 | TEJAS N | 1SG18CV056 | |
| 36 | RAHUL H J | 1SG18CV042 | Residential building -Abhaya Builders |
| 37 | VIVEK VIDYADHAR HEGDE | 1SG18CV063 | |
| 38 | YASHWANTH T P | 1SG18CV066 | |
| 39 | SUSHMA M | 1SG18CV055 | Bangalore Nirmithi kendra |
| 40 | THUNGA B K | 1SG18CV059 | |
| 41 | RASOOL A | 1SG16CV063 | Residential Building |
| 42 | MANJUNATH GOWDA H | 1SG18CV408 | |
| 43 | SHREEJITH S | 1SG17CV044 | |
| 44 | TILAK H S | 1SG18CV060 | Site Operation at BSN Complex near Laggere |
| 45 | SACHIN K C | 1SG18CV065 | |
| 46 | ADHYA N K | 1SG18CV005 | Residential Building |
| 47 | SANJEEV KISHORE P | 1SG19CV406 | |
| 48 | SINDHUNATH D T | 1SG19CV407 | |

| | | | |
|----|-----------------------|------------|---|
| 49 | SRINIVASA T L | 1SG19CV408 | |
| 50 | KIRAN H D | 1SG18CV027 | |
| 51 | SUNIL YADAV D S | 1SG18CV054 | |
| 52 | PRAJWAL S GOWDA | 1SG18CV067 | Residential Building |
| 53 | DILIP K S | 1SG18CV015 | |
| 54 | RENUPRASAD T | 1SG18CV045 | |
| 55 | NAVEEN GOWDA K R | 1SG18CV032 | |
| 56 | PUSHPALATHA H R | 1SG18CV041 | |
| 57 | CHANDANA KUMARI S | 1SG19CV400 | Residential Building |
| 58 | CHETHAN GOWDA D | 1SG19CV401 | |
| 59 | POOJA S | 1SG19CV405 | |
| 60 | GURUCHARANA REDDY P S | 1SG18CV021 | Ready Mix Concrete palnt and Site visiting |
| 61 | HANUMANTHARAJA S C | 1SG18CV022 | |
| 62 | DHANUSH K L | 1SG19CV402 | Site Operation in Residential Building |
| 63 | HARISH S R | 1SG19CV403 | |
| 64 | SURAJ | 1SG17CV021 | Residential Building |
| 65 | LINGRAJ | 1SG17CV027 | |
| 66 | ABHISHEK MOHAN | 1SG18CV003 | |
| 67 | DARSHAN N | 1SG18CV013 | Execution of Receiving Sub station |
| 68 | ISHAQUE AHMED K M | 1SG18CV024 | |
| 69 | KHALID MAQSOOD MIR | 1SG18CV026 | |
| 70 | PRUTHVI RAJ S | 1SG18CV040 | |
| 71 | TEJAS S RAM | 1SG18CV057 | Exposure on Residential Building Construction |
| 72 | VAISHNAVI S YADAV | 1SG18CV061 | |
| 73 | YASHAS M | 1SG18CV064 | Study on Residential Building |
| 74 | SOWMYA K V | 1SG18CV053 | Colliers Ltd |


Principal
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HOD CV
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S.C.E, Bangalore-560 057.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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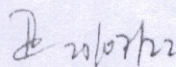


SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU - 560057
DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

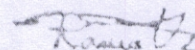
It is certified that the Internship work entitled with "WIDENING OF ROADS" is a bonafied work carried out by DIVYA K (ISG18CV016), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The internship report has been approved as it satisfies the academic requirements in respect of academic internship prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.



Dr. RAJESHWARI R
HOD

Department of Civil Engineering
S.C.E, Bengaluru

HOD, Dept. of Civil Engg.
S.C.E, Bangalore-560057



Dr. H RAMAKRISHNA
PRINCIPAL

Sapthagiri College of Engineering
Bengaluru

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

Name of the examiner

1. PRIYANKA A

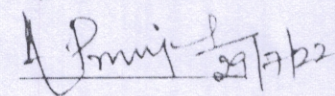
2. BHAVYA CH

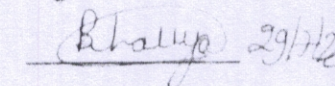


Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature with date

 29/7/22

 29/7/22

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018

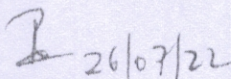


SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU - 560057
DEPARTMENT OF CIVIL ENGINEERING

SAPTHAGIRI
College of Engineering

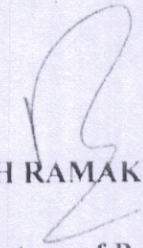
CERTIFICATE

It is Certified that the Internship work entitled with "WIDENING OF ROADS" is a Bonafide work carried out by HARSHITHA R (ISG18CV023), POOJA S (ISG18CV035), PRAGATHI R (ISG18CV037), SHWETHA R (ISG18CV050) in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.


26/07/22
Dr. RAJESHWARI R

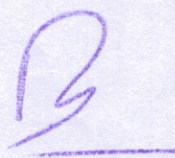
HOD, Civil Engineering Dept.
S.C.E, Bangalore-560 057

Signature of HOD


Dr. H RAMAKRISHNA

Signature of Principal
Principal

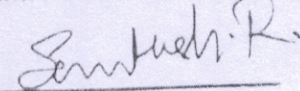
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

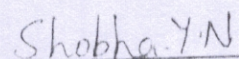

Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bangalore - 560 057

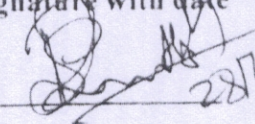
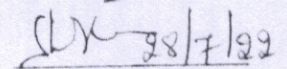
Examiner

Name of the examiner

1. 

2. 

Signature with date


28/7/22

28/7/22

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



SAPTHAGIRI COLLEGE OF ENGINEERING

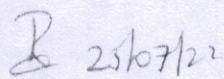
BENGALURU - 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is Certified that the Internship work entitled with "WIDENING OF ROADS" is a Bonafide work carried out by KAVYA SHREE S (ISG18CV025), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.


Dr. RAJESHWARI R

HOD

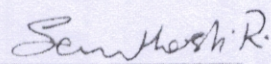
Department of Civil Engineering

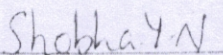
SCE, BENGALURU


HOD, Dept. of Civil Engg.
S.C.E., Bengaluru-560057

Examiner

Name of the examiner

1. 

2. 


Dr. H RAMAKRISHNA

PRINCIPAL

SCE, BENGALURU

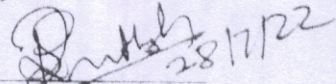
Principal

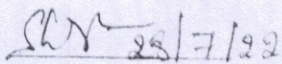
Sapthagiri College of Engineering


Chikkasandra, Hesaraghatta Road

Bangalore-560057

Signature with date

 28/7/22

 28/7/22


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018




SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU - 560057
DEPARTMENT OF CIVIL ENGINEERING

SAPTHAGIRI
COLLEGE OF ENGINEERING


CERTIFICATE

It is Certified that the Internship work entitled with "WIDENING OF ROADS" is a Bonafide work carried out by NAIRA N (ISG17CV047), TEJAS G V (ISG17CV049), ANKITH KUMAR B (ISG18CV401), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.

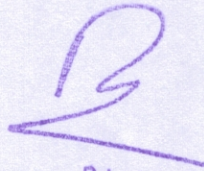

26/07/22

Dr. RAJESHWARI R

Signature of HOD


Dr. H RAMAKRISHNA

Signature of Principal



Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

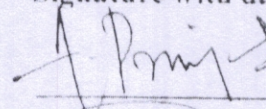
Examiner

Name of the examiner

1. PRIYANKA A

2. BHAVYA CH

Signature with date


28/7/22
(Bhavya) 28/7/22

SAPTHAGIRI COLLEGE OF ENGINEERING


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(Accredited by NAAC with 'A' Grade) & ISO 9001:2015 and 14001:2015 Certified Institute
#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560057



Department of Civil Engineering

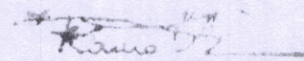
CERTIFICATE

Certified that the Internship work entitled "Sri Maruthi builders- Railway sleepers production plant" carried out by **ABHISHEK MV (ISG18CV002)**, **ANKITH KC (ISG18CV008)**, **BHARATH P (ISG18CV009)**, **MADHUSUDAN BS (ISG18CV029)** (Ubonafide student of 8th semester, Department of **Civil Engineering**, Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Civil Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree

 20/07/22

Dr. Rajeshwari R

Signature of the HOD



Dr. H Ramakrishna

Signature of the Principal

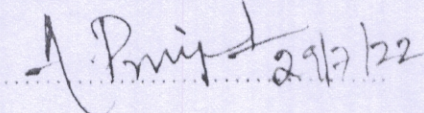
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

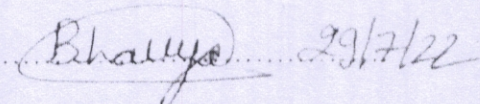
Name of the Examiner

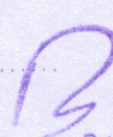
1. PRIYANKA A

2. BHAVYA CH

Signature of the Examiner with date

1.  29/7/22

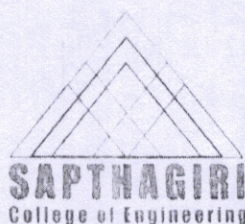
2.  29/7/22


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, "JNANA
SANGAMA", BELGAVI-590018



SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU -560057
DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is Certified that the Internship work entitled with "SOBHA RAJVILAS" is a Bonafide work carried out by ANANYA S (ISG18CV007), GANAVI N (ISG18CV017), REKHA M (ISG18CV044), SINDHU H S (ISG18CV052), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021-22. All corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.

Dr. RAJESHWARI R
28/07/22

Signature of HOD

Dr. H RAMAKRISHNA
Principal

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore - 560 057

Name of the Examiner

Signature of Examiner with date

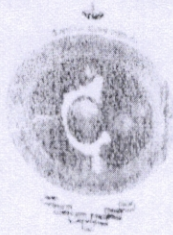
1. *Sunitha R.*

1. *Sunitha R.*
28/7/22

2. *Shobha Y.N*

2. *Shobha Y.N*
28/7/22

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057



SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU - 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is Certified that the Internship report entitled with "RESIDENTIAL AND COMMERCIAL BUILDING" is a bonafied work carried out by MEGHANA T S (ISG18CV031), PARINITHA J (ISG18CV034) in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The Internship report has been approved as it satisfies the academic requirements in respect of academic Internship prescribed for the Bachelor of Engineering Degree in Civil engineering

Prof. NAGARJUN GOWDA B S
Asst. professor
Department of Civil Engineering
S.C.E, Bengaluru.

Dr. RAJESHWAR L R
Professor and H.O.D
Department of Civil Engineering
S.C.E, Bengaluru

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Name of the Examiner

1. Santhosh R.
2. Shobha Y.N

Signature of the examiner with date

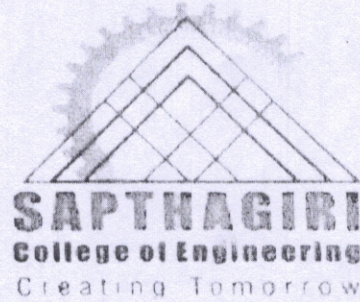
1. 28/7/22
2. 28/7/22

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF CIVIL ENGINEERING



This is to certify that **BRINDA P(1SG18CV010)**, **GEETHA N(1SG18CV019)**, **POSHITHA AV(1SG18CV036)**, **PRIYADARSHINI P(1SG18CV039)**, **TEJESWINI SD(11SG18CV058)**, is a bonified student of **Sapthagiri College of Engineering** has satisfactorily presented a Internship entitled on **"MULTI-LEVEL CAR STORAGE PARKING"** in partial fulfilment of the requirements as prescribed by **Visvesvaraya Technological University, Belagavi**, for the award of **Bachelor Degree in Civil Engineering** during the academic year **2021-2022**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

Dr. 25/07/22

Signature of the HOD

Dr. RAJESHWARI

Department of Civil Engineering

Dr. H Ramakrishna

Signature of the Principal

Dr. H RAMAKRISHNA

Sapthagiri College of Engineering

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Dr. H Ramakrishna

Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi)

ISO 9001:2015 & ISO 14001:2015 Certified Institute Accredited By NAAC with "A" Grade

14/5, Chikkasandra, Hesaraghatta Main Road

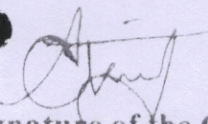
Bengaluru-560057

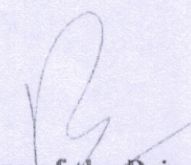


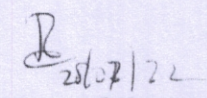
Department of Civil Engineering

Certificate

Certified that the Internship Work entitled "CONSTRUCTION OF RESIDENTIAL BUILDING" carried out by CHANDANA M (ISG18CV011), SINDHU C (ISG18CV051) bonafide students of Sapthagiri College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the Department Library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship Report prescribed for the said degree.


Signature of the Guide
Prof. Akshay J
Department of Civil
Engineering



Signature of the Principal
Dr. H. Ramkrishna
Principal
Sapthagiri College of Engineering


Signature of the HOD
Dr. Rajeshwari R
Head of the Department
Dept. of Civil Engineering

Name of the Examiner

Signature of the Examiner with date

1. PRIYANKA . A


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

1. A. Princy 29/7/22

2. BHAVYA . CH.

2. Bhavya 29/7/22

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

(Accredited by NAAC with 'A' Grade) & ISO
9001:2015 and 14001:2015 Certified Institute) #14/5,
Chikkasandra, Hesaraghatta Main Road, Bangalore
560057



Department of Civil Engineering

CERTIFICATE

Certified that the Internship work entitled **FINAL INTERNSHIP REPORT** carried out by **AKSHATH GOWDA N.K (ISG18CV006), DHRUVA KUMAR D.L ABHISHEK. R (ISG18CV004)**, bonafide student of 8th semester, Department of **Civil Engineering**, Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Civil Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

26/07/22

Signature of the HOD

Dr. Rajeshwari R

Signature of the Principal

Dr. H Ramakrishna

Name of the Examiner

Signature of the Examiner with date

1. Santhosh R

1. [Signature] 28/7/22

2. Shobha Y N

2. [Signature] 28/7/22

Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

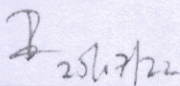
(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
(Accredited by NAAC with 'A' Grade) & ISO 9001:2015 and 14001:2015 Certified Institute)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057



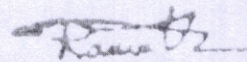
Department of Civil Engineering

CERTIFICATE

Certified that the Internship work entitled "PUBLIC WORK DEPARTMENT ROAD DESIGN AND TRAFFIC CENSUS" carried out by VINAY R (ISG18CV062), SANJAY SHARMA S (ISG18CV047) bonafide student of 8th semester, Department of Civil Engineering, Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.


28/7/22

Dr. Rajeshwari R



Dr. H Ramakrishna

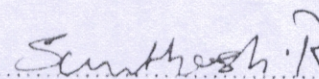
Principal

Signature of the HOD

HOD, Dept. of Civil Engg.
S.C.E., Bengaluru - 560057

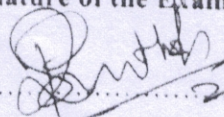
Signature of the Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

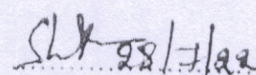
Name of the Examiner

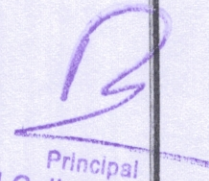
1.  Santhosh R

2. Shobha Y.N

Signature of the Examiner with date

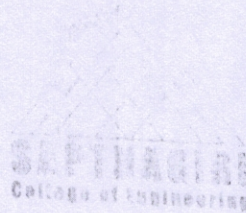
1.  28/7/22

2.  28/7/22


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

DEPARTMENT OF CIVIL ENGINEERING
SAPTHAGIRI COLLEGE OF ENGINEERING

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#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560057



Department of Civil Engineering

CERTIFICATE

Certified that the Internship work entitled **CONTRIVER-PLANNING AND 3D MODELLING OF COMMERCIAL BUILDING** carried out by **ABHISHEK G A (ISG18CV001), PRAJWAL S (ISG18CV038), RAVIKUMAR (ISG18CV043), TEJAS N (ISG18CV056)** bonafide student of 8th semester, Department of Civil Engineering, Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

B 26/07/22
Dr. Rajeshwari R

B
Dr. H Ramakrishna

Signature of the HOD

Signature of the Principal

Name of the Examiner

Signature of the Examiner with date

1. Santhosh R.

1. Santhosh R. 28/7/22

2. Shobha Y. N.

2. Dr. H. 28/7/22

B
Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU)
(Accredited by NAAC with 'A' Grade) (Approved by Government of Karnataka)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560077



Department of Civil Engineering

CERTIFICATE

Certified that the Internship work entitled "Residential building" at Abhaya Builders carried out by **RAHUL HJ (ISG18CV042)**, **VIVEK H HEGDE (ISG18CV063)**, **YASHWANTH TP (ISG18CV066)** (bonafide) student of 8th semester, Department of Civil Engineering, Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Civil Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

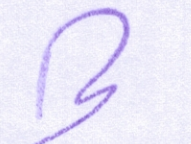
B 26/07/22

Dr. Rajeshwari R

Signature of the HOD

Dr. H Ramakrishna


Signature of the Principal


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560077

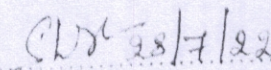
Name of the Examiner

Signature of the Examiner with date

1. Santhosh R

1.  28/7/22

2. Shobha Y N

2.  28/7/22

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]



Department of Civil Engineering

CERTIFICATE

Certified that the Internship work entitled **BANGALORE NIRMITHI KENDRA[URBAN]** carried out by **SUSHMA M (ISG18CV055)** bonafide student of 8th semester, Department of **Civil Engineering**, Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Civil Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

Prof. Nagarjun Gowda B S

Signature of the Guide

Dr. Rajeshwari R

Signature of the HOD

Dr. H Ramakrishna
Principal

Signature of the Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bengaluru-560 057

Name of the Examiner

1.

2.

Signature of the Examiner with date

1.

2.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057
(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)
DEPARTMENT OF CIVIL ENGINEERING



This is to certify that **THUNGA B K (1SG18CV059)**, is a bonified student of **Sapthagiri College of Engineering** has satisfactorily presented a Internship titled on "CONSTRUCTION OF COMMERCIAL BUILDING" in partial fulfilment of the requirements as prescribed by **Visvesvaraya Technological University, Belagavi**, for the award of **Bachelor Degree in Civil Engineering** during the academic year **2021-2022**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

29/07/22

Signature of the HOD
Dr. RAJESHWARI
Department of Civil Engineering

[Signature]

Signature of the Principal
Dr. HRAMAKRISHNA
Sapthagiri College of Engineering
Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

PRIYANKA . A

BHAVYA CH

[Signature] 29/7/22

[Signature] 29/7/22

[Signature]

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]



Department of Civil Engineering

CERTIFICATE

Certified that the Internship work entitled **RESIDENTIAL BUILDING** carried out by **MANJUNATH GOWDA H (ISG18CV408), SHREEJITH S (ISG17CV044), RASOOL A (ISG16CV063)** bonafide student of 8th semester, Department of Civil Engineering, Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Civil Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

B 26/07/22

Dr. Rajeshwari R

Signature of the HOD

HOD, Department of Civil Engineering
S.C.E, Bengaluru-560052

Name of the Examiner

1. *PRITANKA . A*

2. *BHAVYA CH*

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

B
Dr. H Ramakrishna

Signature of the Principal

Signature of the Examiner with date

1. *A Pritank* 28/7/22

2. *Bhavya* 28/7/22

SAPTHAGIRI COLLEGE OF ENGINEERING

Affiliated to VTU, Belagavi, Karnataka

DEET Accredited (A) & VAA 2002

(ISO 9001:2015 & ISO 14001:2015)

14/5, Chikkasandra, Hesaraghatta Main Road

Department of Civil Engineering



Certificate

Certified that the internship work entitled "Site Operation of BSN Complex near Laggere" carried out by **TILAK H S (ISG18CV060)** and **SACHIN K C (ISG18CV065)** bonafide students of Sapthagiri College of Engineering, in partial fulfillment for the award of Bachelor of Engineering degree in Civil Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship (18CVI85) prescribed for the said degree.

Shobha Y N
25/7/22

Signature of the Guide
Prof. Shobha Y N
Assistant Professor

Rajeshwari R
25/7/22

Signature of the HOD
Dr. Rajeshwari R
Associate Prof. and Head

Ramakrishna

Signature of the Principal
Dr. H. Ramakrishna

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 087

EXTERNAL EXAMINATION

Name of the Examiner

1. *BHAVYA CH*
2. *BHAVYA CH*

B

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 087

Signature with Date

Bhavya 29/7/22

SAPTHAGIRI COLLEGE OF ENGINEERING

Affiliated to VTU Belagavi, Approved by AICTE, NEW

DEI III Accredited by NAAC with 'A' grade

(ISO 9001:2015 & ISO 14001:2015 Certified Institute)

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057.

Department of Civil Engineering



Certificate

Certified that the internship work entitled "Construction of Residential Building" carried out by PRIVANKA A and BHAVYA CH bonafide student of Sapthagiri College of Engineering, in partial fulfillment for the award of Bachelor of Engineering degree in Civil Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship (18C V185) prescribed for the said degree.

Signature of the Guide
Prof. Bhavya C H
Assistant Professor

29/07/22

Signature of the HOD
Dr. Rajeshwari R
Associate Prof. and Head

Signature of the Principal
Dr. H. Ramakrishna
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bengaluru - 560057

EXTERNAL EXAMINATION

1. PRIVANKA A
2. BHAVYA CH

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057
29/7/22

SAPTHAGIRI COLLEGE OF ENGINEERING

Affiliated to VTU Belagavi, Approved by AICTE, NEW DELHI

Accredited by NAAC with 'A' grade

(ISO 9001-2015 & ISO14001-2015 Certified Institute)

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057.

Department of Civil Engineering



CERTIFICATE

Certified that the Internship work entitled "CONSTRUCTION OF RESIDENTIAL BUILDING" carried out by bonafide students of 8th semester, DILIP K S (ISG18CV015), KIRAN H D (ISG18CV027), NAVEEN GOWDA K R (ISG18CV032), RENUKA PRASAD T (ISG18CV045), SUNIL YADAV D S (ISG18CV054), PRAJWAL S GOWDA (ISG18CV067). Department of Civil Engineering carried out at college Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor Of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Final Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

Dr. Rajeshwari R
26/07/22

Signature of the Guide
Dr. Rajeshwari R
Associate Prof. and
Head

Dr. Rajeshwari R
26/07/22

Signature of the HOD
Dr. Rajeshwari R
Associate Prof. and Head

Dr. H. Ramakrishna
26/07/22

Signature of the Principal
Dr. H. Ramakrishna
Principal

EXTERNAL EXAMINATION:

Name of the Examiner

1.
2.

Sheela Y.N
Sheela Y.N

Principal
26/07/22

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057



Department of Civil Engineering

CERTIFICATE

Certified that the Internship work entitled **STUDY ON RESIDENTIAL BUILDING** carried out by **CHANDANA KUMARI S (ISG19CV400), CHETHAN GOWDA D(ISG19CV401), POOJA S(ISG19CV405), PUSHPALATHA H R(ISG18CV041)** bonafide student of 8th semester, Department of **Civil Engineering**, Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Civil Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

Signature of the Guide

NAGARJUN GOWDA B S
ASST PROF
Department of Civil Engineering
SCE , Bengaluru

Signature of the HOD

Dr. RAJESHWARI R
HOD
Department of Civil Engineering
SCE , Bengaluru

Signature of the Principle

Dr. H. RAMAKRISHNA
PRINCIPAL
Sapthagiri College of Engineering

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore - 560 057

Name of the Examiner

- 1.
- 2.

Signature of the Examiner with date

- 1.
- 2.

Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

Affiliated to VTU Belagavi, Approved by AICTE, NEW DELHI

Accredited by NAAC with 'A' grade

(ISO 9001-2015 & ISO14001-2015 Certified Institute)

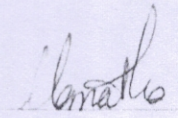
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057.

Department of Civil Engineering

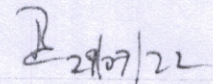


Certificate

Certified that the internship work entitled "RMC PLANT AND SITE VISITING" carried out by GURUCHARANA REDDY P.S. (18CV022) HANUMANTHARAJA S.C. (18CV022) bonafide student of Sapthagiri College of Engineering, in partial fulfillment for the award of Bachelor of Engineering degree in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship Work (18CV185) prescribed for the said degree.

 H.K. 24/04/22

Signature of the Guide
Mrs. Mamatha
Assistant Professor

 29/07/22

Signature of the HOD
Dr. Rajeshwari R
Professor & HOD

EXTERNAL EXAMINATION:

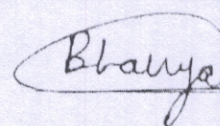
Name of the Examiners

Signature with Date

1. _____

2. BHAVYA CH



 29/7/22

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

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DELHI Accredited by NAAC with 'A' grade

(ISO 9001:2015 & ISO 14001:2015 Certified Institute)

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

Department of Civil Engineering



Certificate

Certified that the internship work entitled "Construction of Residential Building" carried out by DHANUSH K L (ISG19CV402) and HARISH S R (ISG19CV403) bonafide students of Sapthagiri College of Engineering, in partial fulfillment for the award of Bachelor of Engineering degree in Civil Engineering of Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship (18CV185) prescribed for the said degree.

Shobha Y N
25/7/22

Signature of the Guide
Prof. Shobha Y N
Assistant Professor

Rajeshwari R
25/07/22

Signature of the HOD
Dr. Rajeshwari R
Associate Prof. and Head

Ramakrishna

Signature of the Principal
Dr. H. Ramakrishna
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

EXTERNAL EXAMINATION:

Name of the Examiner

1. PRIYANKA A
2. BHAVYA CH

B

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560057

Signature with Date

A. Princy 29/7/22
Bhavya 29/7/22

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, hesaraghatta main road, bengaluru-560057

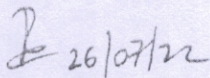
[Affiliated to visvesvaraya technological university, belagavi]



Department of Civil Engineering


Certificate

Certified that the internship work entitled "RESIDENTIAL BUILDING CONSTRUCTION" carried out by SURAJ J (ISG17CV021) bonafide student of 8th semester, Department of civil engineering, Sapthagiri College of engineering, Bengaluru in partial fulfilment of the award of Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, belagavi during the year 2021-2022. It is certified that all correction/suggested indicated for internal assessment have been incorporated in the report deposited in the departmental library. The internship report has been approved as it satisfies the academic requirements in respect of internship report prescribed for the said degree.

 26/07/22

DR. RAJESHWARI R

SIGNATURE OF HOD

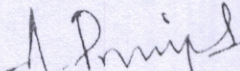
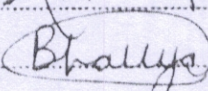

DR. H RAMAKRISHNA

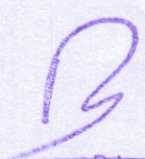
SIGNATURE OF PRINCIPAL

NAME OF THE EXAMINER

1. PRIYANKA . A
2. BHAVYA . CH

SIGNATURE OF THE EXAMINER WITH DATE

1.  28/7/22
2.  28/7/22


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

VISVESVARAYA TECHNOLOGICAL
UNIVERSITY "JNANASANGAMA", BELAGAVI-590018



SAPTHAGIRI COLLEGE OF ENGINEERING

BENGALURU - 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

This is to certify that the work entitled "EXECUTION OF RECEIVING SUB STATION (RSS)" is a Bonafide work carried out by DARSHAN.N (1SG18CV013) in partial fulfillment of the Academic requirement in Bachelor of Civil Engineering from Visvesvaraya Technological University, Belagavi, in the academic year 2021-22. The seminar report has been approved as it satisfies the academic requirements in respect to the Seminar work prescribed for the Bachelor of Engineering in Civil Engineering.

Kayya H. P.

Signature of the Guide

Prof. Kayya H. P.

Assistant Professor

R. Rajeshwari

Signature of the HOD

Dr. Rajeshwari. R

HOD

B. H. Ramakrishna

Signature of the Principal

Dr. H. Ramakrishna

Principal

EXTERNAL EXAMINATION

Name of the Examiner

1. PRIYANKA - A

2. BHAVYA CH

B. H. Ramakrishna

Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature with Date

B. H. Ramakrishna 29/7/22

Bhavya 29/7/22

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



SAPTHAGIRI COLLEGE OF ENGINEERING BENGALURU -
560057

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
(Accredited by NAAC with 'A' Grade) & ISO 9001:2015 and 1400:2015 Certified Institute)
#14 S, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is Certified that the Internship work entitled with "TYPES OF WATER PROOFING" is a bonafied work carried out by team associates PRUTHVI RAJ S (ISGI8CV040) in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree 7th and 8th semesters.

Dr. Rajeswarar

Dr. RAJESWARAR
PROFESSOR

Department of Civil Engineering
S.C.E, Bengaluru

Dr. Rajeswarar

Dr. RAJESWARAR
H.O.D

Department of Civil Engineering
S.C.E, Bengaluru

Dr. HRAMAKRISHNA
PRINCIPAL

S.C.E, Bengaluru

Name of Examiner

1) *Priyanka A*

2) *BHAVYA CH*

Signature of the Examiner with date

1) *Priyanka A* 29/7/22

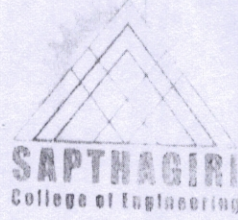
2) *Bhavya CH* 29/7/22

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560057

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VISVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]



Department of Civil Engineering

CERTIFICATE

Certified that the Internship work entitled **Residential building construction** carried out by **Ishaque Ahmed K M(1SG18CV024)**, Bonafede student of 8th semester, Department of **Civil Engineering**, Sapthagiri College of Engineering, Bengaluru impartial fulfillment of the award of **Bachelor of Engineering in Civil Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

R 26/07/22

Dr. Rajeshwari R

Signature of the HOD

Kavya H P
Ms. Kavya H P

Signature of guide

Name of the Examiner

1. *Sankesh R*
2. *Shobha V N*

Signature of the examiner with date

1. *[Signature]* 26/7/22
2. *[Signature]* 25/7/22

[Signature]
Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

**DEPARTMENT OF CIVIL ENGINEERING
SAPTHAGIRI COLLEGE OF ENGINEERING**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
(Accredited by NAAC with 'A' Grade & ISO 9001:2015 and 1400:2015 Certified Institute)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560057



Department of Civil Engineering

CERTIFICATE

Certified that the Internship work entitled **EXPOSURE ON RESIDENTIAL BUILDING CONSTRUCTION** carried out by **TEJAS S RAM (ISG18CV057)** bonafide student of 8th semester, Department of Civil Engineering, Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

[Signature] 26/07/22

Dr. Rajeshwari R **Signature of the HOD**

HOD, Dept. of Civil Engg.
S.C.E., Bangalore-560057

[Signature]
Dr. H Ramakrishna

Principal

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560057

Name of the Examiner

1. *[Signature]* S. Santhosh R.

2. *[Signature]* Shobha Y.N

Signature of the Examiner with date

1. *[Signature]* 28/7/22

2. *[Signature]* 28/7/22

[Signature]
Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bangalore - 560057


SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057
[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]



Department of Civil Engineering

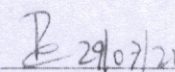
CERTIFICATE

Certified that the Internship work entitled "CONSTRUCTION OF RESIDENTIAL BUILDING" carried out by **VAISHNAVI S YADAV(ISG18CV061)** bonafide student of 8th semester, Department of **Civil Engineering**, Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Civil Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2021-22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.



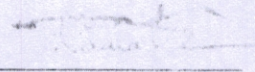
Mr. Pramod K.R

Signature of the Guide




Dr. Rajeshwari R

Signature of the HOD



Dr. H Ramakrishna

Signature of the Principal



Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta
Bengaluru - 560 057

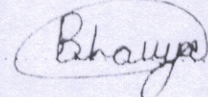
Name of the Examiner

Signature of the Examiner with date

1.

1.

2. **BHAVYA CH**

2.  **29/7/22**

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI-590018



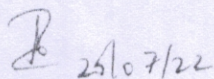
SAPTHAGIRI COLLEGE OF ENGINEERING
BENGALURU - 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is certified that entitled with "INTERNSHIP REPORT" is a bonafide work carried out by SOWMYA K V (ISG18CV053), in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2021-2022. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The Internship report has been approved as it satisfies the academic requirements in respect of academic Internship prescribed for the Bachelor of Engineering Degree in Civil engineering.

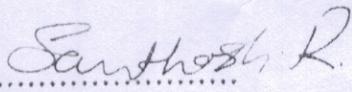
 25/07/22

Dr. RAJESHWARI R


Signature of HOD

HOD, Dept. of Civil Engg.
S.C.E, Bangalore-560 057

Name of the examiner

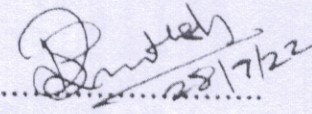
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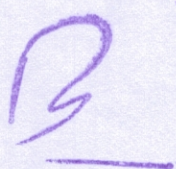
 Dr. H RAMAKRISHNA

Principal
Signature of Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore- 560 057

Name of the examiner

1.  25/7/22

2.


Principal
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