

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 report entitled with **"DETERMINATION OF OPTIMUM BINDER CONTENT FOR DENSE GRADED BITUMINOUS MACADAM GRADE-2"** is a bonafied work carried out by team associates **ANJANA JAGADEESH (ISG15CV003), KARTHIK KUTTAPPA B J (ISG15CV022), SHREEJITH R (ISG15CV050), CHANDAN K (ISG16CV403)** 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 2018-2019. 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 in Civil Engineering.

GUIDE:

Mr. AKSHAY J  
Asst. Professor

Dr. R L RAMESH  
Professor and HOD

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

Dr. K L SHIVABASAPPA  
Principal

Examiner 1:

Examiner 2:

Principal

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



DEPARTMENT OF CIVIL ENGINEERING

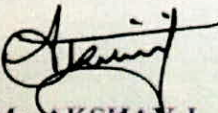


SAPTHAGIRI COLLEGE OF ENGINEERING  
BENGALURU - 560057

**CERTIFICATE**

It is Certified that the project work report entitled with "DETERMINATION OF MARSHALL PROPERTIES OF HOT MIX ASPHALT MIXED WITH RECYCLED COARSE AGGREGATE" is a bonafied work carried out by team associates ASLAM IDRISH (ISG15CV004), KONSAM LOYANGAMBA SINGH (ISG15CV024), MAKBOOL (ISG15CV026), SACHIN KUMAR A K (ISG15CV059). 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 2018-2019. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project work report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree in Civil Engineering.

GUIDE:

  
Mr. AKSHAY J  
Assistant Professor

  
Dr. R.L. RAMESH

Professor and H.O.D

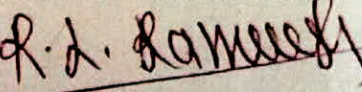
**HOD, Dept. of Civil Engg.  
S.C.E, Bangalore-560 057**


  
12/10/19

Dr.K.L SHIVABASAPPA

Principal

EXTERNAL EXAMINERS

1.  6/24/6/19

2.  24

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Principal

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SAPTHAGIRI COLLEGE OF ENGINEERING  
BENGALURU - 560057

DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

It is Certified that the project work entitled with **"PERFORMANCE EVALUATION OF CEMENT CONCRETE SOLID BLOCK BY PARTIAL REPLACEMENT OF FINE AGGREGATES BY SAW DUST AND CHARCOAL"** is a bonafied work carried out by team associates **SHARATH V(ISG15CV046)**, **SHETTY LAVARAJ RAMA(ISG15CV048)**, **V U AISHWARYA(ISG15CV055)**, **PALLAVI S D (ISG16CV408)** 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 2018-2019. 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 in Civil Engineering.

GUIDE:




MRS. NAVYA N  
Asst. Professor



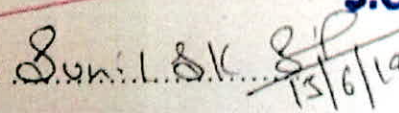
Dr. R L RAMESH  
Professor and HOD



Dr. K L SHIVABASAPPA  
Principal

Examiner 1: 

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

Examiner 2: 

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### CERTIFICATE

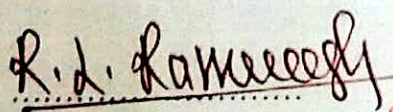
It is Certified that the project work entitled with "**ANALYSIS AND DESIGN OF INDOOR STADIUM WITH RAINWATER HARVESTING**" is a bonafied work carried out by team associates **ANIL KUMAR REDDY K (ISG15CV002)**, **BHARATH K (ISG15CV007)**, **SARIN BABU R H (ISG15CV045)**, **SHIVAPRASAD H M (ISG15CV049)**, 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 2018-2019. 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 in Civil Engineering.


GUIDE:

  
Mr. PRAMOD K R  
Asst. Professor

  
Dr. R L RAMESH  
Professor and HOD  
HOD, Dept. of CIVIL Engg.  
S.C.E, Bangalore-560 057.

  
Dr. K L SHIVABASAPPA  
Principal  
Principal  
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Examiner 1:  6/4/6/19

Examiner 2: 

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BENGALURU - 560057

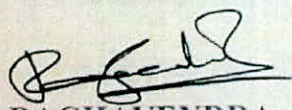
DEPARTMENT OF CIVIL ENGINEERING



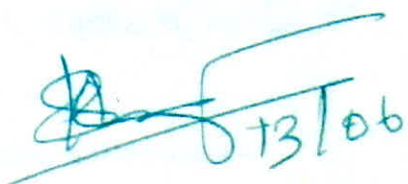
CERTIFICATE


It is Certified that the project work entitled with **"EXPERIMENTAL INVESTIGATION ON CONCRETE WITH RECYCLED AGGRIGATES AS PARTIAL REPLACEMENT FOR COARSE AGGRIGATE"** is a bonafied work carried out by team associates **HARSHITHA V (1SG14CV015)**, **GANGARAJU T (1SG15CV014)**, **M.S.BASAVAPRASAD (1SG16CV402)**, **VINAYA DONDU PATAKARE (1SG16CV413)** 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 2018-2019. 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 in Civil Engineering.

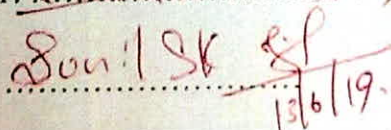
GUIDE:

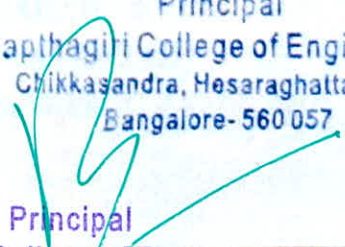
  
Mr. RAGHAVENDRA R  
Asst. Professor

  
Dr. K. L. SHIVABASAPPA  
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Dr. K. L. SHIVABASAPPA  
Principal  
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Examiner 1:  5/3/19.

Examiner 2:  13/6/19.

  
Principal  
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
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SAPTHAGIRI COLLEGE OF ENGINEERING  
DEPARTMENT OF CIVIL ENGINEERING



CERTIFICATE

This is to certify that the Project work entitled with "STUDIES ON STRENGTH OF VIBRO COMPACTED GEOPOLYMER CONCRETE AND BLOCKS" carried out by team associates **Ms.HAMSA.T.N (ISG15CV018)**, **Ms.JAYALAKSHMI.B.L (ISG15CV020)**, **Mr.LINGARAJU Y.K(ISG16CV404)** were bonafide students of SAPTHAGIRI COLLEGE OF ENGINEERING BANGALORE in partial fulfilment for the award of degree "BACHELOR OF ENGINEERING" in CIVIL ENGINEERING of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2018-19. All corrections/suggestions indicated have been incorporated in the report. The Project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree in Civil Engineering.

Mr.Col.Vinod.M.Sasalatti  
Executive Engineer  
BMRCL

*R.L. Ramesh*

Dr.R.L.Ramesh  
Professor and HOD  
HOD, Dept. of Civil Engg.  
S.C.E, Bangalore-560 057

*Dr.K.L.Shivabasappa* 13/06/19

Dr.K.L.Shivabasappa  
Principal

Principal  
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External Examiners

1. *R.L. Ramesh* 14/6/19.
2. *Sunil SK S.P.* 14/6/19

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DEPARTMENT OF CIVIL ENGINEERING



SAPTHAGIRI COLLEGE OF ENGINEERING  
BENGALURU- 560057

CERTIFICATE

It is Certified that the project work report entitled with **"A STUDY ON PROPERTIES OF PERVIOUS CONCRETE PAVEMENT FOR ITS USE IN LESS IMPORTANCE ROADS"** is a bonafide work carried out by team associates HARSHITH R (ISG15CV014), MOHANRAJ A (ISG15CV033), ABHISHEK D N (ISG16CV400), RAKSHITH A (ISG16CV409), 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 2018-2019. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project report phase 2 has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree in Civil Engineering.

  
Mrs. PALLAVI G A

Asst Professor  
Department of Civil Engineering  
S.C.E, Bengaluru.

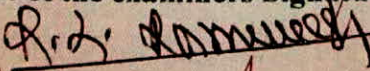
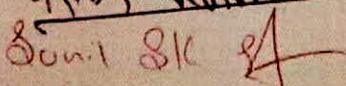
  
Dr. R. L. RAMESH

Professor and HOD  
Department of civil engineering  
S.C.E, Bengaluru

  
Dr. K. L. SHIVABASAPPA

Principal  
S.C.E, Bengaluru.

Name of the examiners Signature with date

1.  14/6/19
2. 

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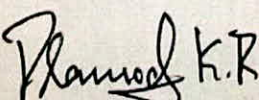


SAPTHAGIRI COLLEGE OF ENGINEERING  
BENGALURU- 560057


**CERTIFICATE**

It is Certified that the Project Work entitled with "**EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF CEMENT WITH GGBS AND ZEOLITE TO PRODUCE AN ECO-FRIENDLY CONCRETE**" is a bonafide work carried out by team associates **B E PAVAN KUMAR** (ISG15CV005), **SUSHMITHA A** (ISG15CV053), **RAMESH KOTIHAL** (ISG16CV410), **SUSHMITHA D N** (ISG16CV412), 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 2018-2019. 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 in Civil Engineering.

GUIDE:

  
Mr. PRAMOD K R  
Assistant Professor

  
Dr. R.L. RAMESH  
HOD, Dept. of Civil Engg.  
S.C.E, Bangalore-560 057

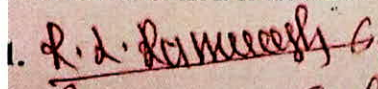
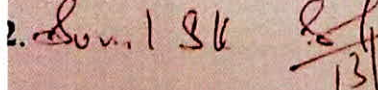
  
Dr. K.L. SHIVABASAPPA  
Principal  
Principal

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Principal

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EXTERNAL EXAMINERS

1.  13/6/19  
2.  13/6/19



VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
"JNANA SANGAMA", BELAGAVI - 590018



DEPARTMENT OF CIVIL ENGINEERING



SAPTHAGIRI COLLEGE OF ENGINEERING  
BENGALURU - 560057

CERTIFICATE

It is Certified that the project workreport entitled with "ANALYSIS AND DESIGN OF G+3 RESIDENTIAL BUILDING USING STAAD PRO" is a bonafied work carried out by team associates KANOJ S V (ISG15CV021), PREM FERNANDES (ISG15CV038), MEGHANA A H (ISG65CV406), YAMINI J (ISG16CV414), 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 2018-2019. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project work report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree in Civil Engineering.

GUIDE:

Mrs. SANJANA G M  
Assistant Professor

Dr. R.L. RAMESH  
Professor and H.O.D

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

Dr. K.L. SHIVABASAPPA  
Principal

EXTERNAL EXAMINERS

1. R.L. Ramesh 13/6/19

2. Sonil SK 12/6/19

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Bangalore- 560 057

Principal  
Sapthagiri College of Engineering  
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College of Engineering  
Creating Tomorrow

**Principal**  
Sapthagiri College of Engineering  
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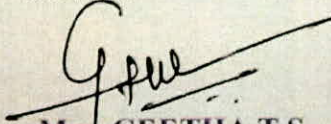
DEPARTMENT OF CIVIL ENGINEERING

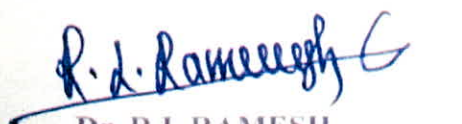



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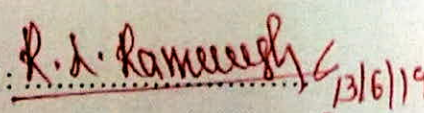
It is Certified that the project work entitled with **"APPLICATION OF BACTERIA AS SELF HEALING AGENT IN CONCRETE"** is a bonafied work carried out by team associates GOWTHAM M (ISG15CV017), MANOJ M (ISG15CV029), PRAKASH S K (ISG15CV037), SACHIN REDDY (ISG15CV042), in partial fulfillment of the requirement for the award of the degree of **Bachelor of Engineering in Civil Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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 in Civil Engineering.


GUIDE:


  
Mrs. GEETHA T S  
Asst. Professor

  
Dr. R L RAMESH  
Professor and HOD  
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Dr. K L SHIVABASAPPA  
Principal  
Principal  
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Examiner 1:  13/6/19

Examiner 2:  15/6/19

  
Principal  
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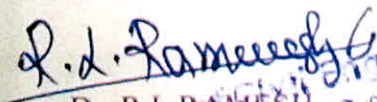
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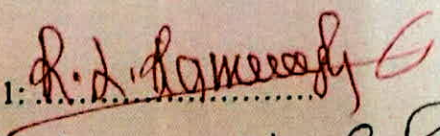
It is Certified that the project work entitled with "EXPERIMENTAL INVESTIGATION ON SELF CURING CONCRETE" is a bonafied work carried out by team associates RAKSHITH GOWDA V (ISG15CV040), SUSHMA L (ISG15CV052), AMRUTHA A G (ISG16CV401), RAVIKUMAR K S (ISG16CV411) in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Civil Engineering of Visvesvaraya Technological University, Belagavi, during the year 2018-2019. 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 in Civil Engineering.

GUIDE:

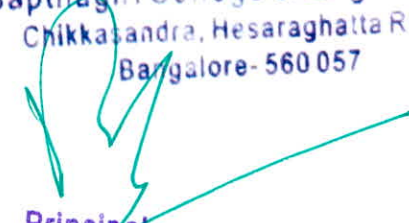
  
Mrs. SUMA N G  
Asst. Professor

  
Dr. R. L. RAMESH  
Professor  
S.C.E. Bangalore

  
Dr. K. L. SHIVABASAPPA  
Principal  
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Examiner 1: 

Examiner 2: 

  
Principal  
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DEPARTMENT OF CIVIL ENGINEERING




SAPTHAGIRI COLLEGE OF ENGINEERING  
BENGALURU - 560057

CERTIFICATE

It is Certified that the project work report entitled with "**BIO-AEROSOLS CONTAMINATION IN AND AROUND SAPTHAGIRI CAMPUS**" is a bonafide work carried out by team associates **GAZI MOHAMMED MANSOOR (ISG15CV015)**, **KISHOR VN (ISG15CV062)**, **SHAFIYA SULTANA N (ISG15CV065)**, 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 2018-2019. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project work report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree in Civil Engineering.

GUIDE:


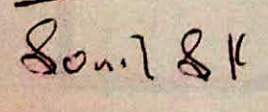
  
Mr. DHRUVARAJ M S  
Assistant Professor

  
Dr. R.L. RAMESH  
Professor and H.O.D

  
Dr. K.L. SHIVABASAPPA  
Principal

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

EXTERNAL EXAMINERS

1.  6/4/6/19
2.  14/6/19

  
Principal

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DEPARTMENT OF CIVIL ENGINEERING



SAPTHAGIRI COLLEGE OF ENGINEERING  
BENGALURU - 560057

**CERTIFICATE**

It is Certified that the project work report entitled with **"EXPERIMENTAL STUDY ON USE RECYCLED PLASTIC AS PARTIAL REPLACEMENT OF COARSE AGGREGATE AND FINE AGGREGATE WITH M-SAND"** is a bonafied work carried out by team associates **CHETHAN S PATIL (ISG15CV010), RAMYA K V (ISG15CV041), SHYLESH S D (ISG15CV051), VIGNESH RAO S (ISG15CV056)**, 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 2018-2019. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project work report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree in Civil Engineering.

**GUIDE:**

Dr. R.L. RAMESH  
Professor and H.O.D.  
HOD, Dept. of Civil Engg.  
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**EXTERNAL EXAMINERS**

1. 94/6/19
- 2.

Dr. K.L. SHIVABASAPPA  
Principal  
Principal  
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BENGALURU - 560057

CERTIFICATE

It is Certified that the project work report entitled with **"EFFECT ON BACTERIAL CONCRETE USING SILICA FUME AND RICE HUSK ASH AS PARTIAL REPLACEMENT OF CEMENT"** is a bonafied work carried out by G SAI PRASANNA KUMAR(1SG15CV012), HARSHAN(1SG15CV019), MOHAMMEDRAFEEQ (1SG15CV031), MOHAMMED RIAZ J(1SG15CV032), 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 2018-2019. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project work report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree in Civil Engineering.

Mr. RAJIV T  
Asst. Professor

Dr. R.L. RAMESH  
Professor and H.O.D

Dr. K.L. SHIVABASAPPA  
Principal

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EXTERNAL EXAMINERS

1. 13/6/19
2. 17/6/19

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"JNANA SANGAMA", BELAGAVI - 590018



DEPARTMENT OF CIVIL ENGINEERING




SAPTHAGIRI COLLEGE OF ENGINEERING  
BENGALURU - 560057

CERTIFICATE

It is Certified that the project work report entitled with "**STUDY OF WATER CHARACTERISATION OF CHIKKBANAVARA LAKE**" is a bonafied work carried out by team associates **BHAVANI B G (ISG14CV005)**, **CHETHAN REDDY B (ISG15CV061)**, **RANJITH KUMAR S (ISG15CV063)**, **SANDEEP B S (ISG15CV064)**, 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 2018-2019. All corrections / suggestion indicated for Internal Assessment have been incorporated in the report. The project work report has been approved as it satisfies the academic requirements in respect of academic project prescribed for the Bachelor of Engineering Degree in Civil Engineering.

GUIDE:

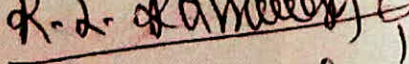

  
Mrs. KRUPA T L  
Assistant Professor

  
Dr. R.L. RAMESH  
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EXTERNAL EXAMINERS

1.  14/6/19
2. 

Principal

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DEPARTMENT OF CIVIL ENGINEERING



**CERTIFICATE**

It is Certified that the project work entitled with "**STUDY ON VIBRO-COMPACTED GEOPOLYMER CONCRETE**" is a bonafied work carried out by me SWATHI K (ISG15CV054), 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 2018-2019. 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 in Civil Engineering.

GUIDE:

Dr. R L RAMESH  
Professor and HOD

Dr. K L SHIVABASAPPA  
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Examiner 1:

Examiner 2:   
14/6/19

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