

**Performance analysis of ATC signals over fixed signals  
at signalised junctions in Hyderabad**

*Project report Submitted  
in the partial fulfillment of the requirements for  
the award of the degree of*

**Bachelor of Engineering  
in  
Civil Engineering  
By**

<b>S. Akhila</b>	<b>1602-18-732-003</b>
<b>Anjum Begum</b>	<b>1602-18-732-005</b>
<b>M. Samhitha</b>	<b>1602-18-732-041</b>
<b>Harshini</b>	

Under the guidance of  
**Dr. M. V. S. S. SASTRI**  
Associate Professor



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING(AUTONOMOUS),**  
(Affiliated to Osmania University)  
**IBRAHIMBAGH, HYDERABAD – 500 031**



## DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING

(AUTONOMOUS)HYDERABAD

### CERTIFICATE

This is to certify that the Major Project work “ **Performance Analysis Of ATC Signals Over Fixed Signals At Signalised Junctions In Hyderabad**” is being submitted by S.Akhila (1602-18-732-003), Anjum Begum (1602-18-732-005), M.Samhitha Harshini (1602-18-732-041) in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad -500031 is a record of bonafide work carried out by him / her under our guidance.



*G. Srinivas*

G. Srinivas

External Project guide  
IBI grp.ltd

*Dr. M. V. S. S. SASTRI*

Dr. M. V. S. S. SASTRI

Internal Project Guide  
Dept. of Civil Engineering

*Dr B. Sridhar*

Dr B. Sridhar

Professor & Head  
Dept. of Civil Eng

**MATHEMATICAL MODEL ON THE MECHANICAL  
PROPERTIES OF TRIPLE BLENDED GLASS FIBER  
REINFORCED CONCRETE**

*Project report Submitted*

*in the partial fulfillment of the requirements for*

*the award of the degree of*

**Bachelor of Engineering**

*in*

**Civil Engineering**

**By**

**V Bhanu Prakash                    1602-18-732-008**

**M Chandrahas                    1602-18-732-009**

**K Harshavardhan                1602-18-732-013**  
**Reddy**

Under the guidance of

**Dr.S.Vijaya kumar**

Associate Professor



**DEPARTMENT OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF**

**ENGINEERING(AUTONOMOUS),**

**(Affiliated to Osmania University)**

**IBRAHIMBAGH, HYDERABAD - 500 031**

**June 2022**



**DEPARTMENT OF CIVIL  
ENGINEERING**

**VASAVI COLLEGE OF  
ENGINEERING (AUTONOMOUS)**

**HYDERABAD**

**CERTIFICATE**

This is to certify that the Project work entitled **Mathematical model on Mechanical properties of Triple blended glass fiber reinforced concrete** is being submitted by **V Bhanu Prakash (1602-18-732-008), M Chandrahas (1602-18-732-009) and K Harshavardhan Reddy ( 1602-18-732-013 )**, in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering, Vasavi College of Engineering(Autonomous), Ibrahim Bagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance.

  
**Dr. S. Vijaya Kumar**

**Associate professor**

**Dept. of Civil Engineering**

**Project Guide**

  
**Dr. B. Sridhar**

**Head of the Department**

**Dept. Of Civil Engineering**

**MECHANICAL PROPERTIES OF PP FIBROUS SELF  
COMPACTING CONCRETE**

*Project report submitted*

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

**Bachelor of Engineering**

in

**Civil Engineering**

by

JALAPALLI SAI GANESH

(1602-18-732-033)

BURRA SRINADH

(1602-18-732-052)

AVULA VAMSHI

(1602-18-732-057)

Under the guidance of

**Dr.M.V.S.S.SASTRI**

Associate Professor



**DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS),  
(Affiliated to Osmania University)  
IBRAHIMBAGH, HYDERABAD-500031  
JUNE 2022**



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**  
**CERTIFICATE**

This is to certify that the Project work entitled “**Mechanical Properties of PP Fibrous SELF Compacting Concrete**” is being submitted by Jalapalli Sai Ganesh (1602-18-732-033), Burra Srinadh (1602-18-732-052), Avula Vamshi (1602-18-732-057) in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering, Vasavi College of Engineering (A) (Affiliated to Osmania University), Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by him/her under our guidance.

  
Dr. M.V.S.S.Sastri 04/06/22

**Associate Professor**  
**Project Guide**

  
4/6/22

**Dr. B.Sridhar**  
**Professor & Head**  
**Department of Civil Engineering**

Project report on  
**MODE CHOICE ANALYSIS OF E-MOBILITY**  
**FOR SUSTAINABLE TRANSPORTATION**

*Project report submitted*  
*in the partial fulfilment of the requirements for the*  
*award of the degree of*

**Bachelor of Engineering**  
in  
**Civil Engineering**

By

**K. RACHANA** (1602-18-732-028)  
**P. SAI POOJITHA** (1602-18-732-035)  
**V. SHRAVYA** (1602-18-732-045)

Under the guidance of

**DR.B. SRIDHAR**

**JUNE 2022**



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING**  
**(Autonomous, Affiliated to Osmania University)**  
**IBRAHIMBAGH, HYDERABAD-500031**



**DEPARTMENT OF CIVIL ENGINEERING VASAVI  
COLLEGE OF ENGINEERING HYDERABAD**

**CERTIFICATE**

This is to certify that the Major Project work “**MODE CHOICE ANALYSIS OF E-MOBILITY FOR SUSTAINABLE TRANSPORTATION**” is being submitted by K. RACHANA(1602-18- 732-028), P. SAI POOJITHA (1602-18-732-035), V.SHRAVYA(1602-18-732-045) in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad -500031 is a record of bonafide work carried out by him / her under our guidance

A handwritten signature in black ink, appearing to be 'Dr. B. SRIDHAR', written over a horizontal line.

**Dr. B. SRIDHAR**

**Head of the Department**

**Dept. of Civil Engineering**

A handwritten signature in black ink, appearing to be 'Dr. B. SRIDHAR', written over a horizontal line.

**Dr. B. SRIDHAR**

**Head of the Department**

**Dept. of Civil Engineering**





**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**

**CERTIFICATE**

This is to certify that the Project work entitled “**Thermal Properties of Fibre Reinforced Concrete**” is being submitted by Ms. Ch. Lakshmi Priyanka (1602-18-732-018), Mr. P. Lavakumar (1602-18-732-019) and Ms. K. Sony (1602-18-732-047) in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance.

  
Sri. M. Bhasker and Sri. S. Vijaya Kumar

**Project Guide**

**Dept. of Civil Engineering**

  
Dr. B. Sridhar

**Head of the Department**

**Dept. of Civil Engineering**

**PRIORITISATION OF ROADS USING MCDM  
APPROACHES – A CASE STUDY OF ROADS IN  
SPRAWL AREA OF HYDEREABAD**

*Project Report submitted  
in partial fulfilment of the requirements for  
the award of the Degree of*

**BACHELOR OF ENGINEERING**

in

**Civil Engineering**

By

**V. Aishwarya Laxmi (1602-18-732-001)**

**Soumya Shanigarapu (1602-18-732-048)**

**Tarun Kumar Koram (1602-18-732-054)**

*Under the guidance of*

**Dr. K. Jayasree (M. Tech, Ph. D)**

**Assistant Professor**



**DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING(AUTONOMOUS)  
(Affiliated To Osmania University)  
IBRAHIM BAGH, HYDERBAD-500031**

**JUNE 2022**



**DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)  
HYDERABAD**

**CERTIFICATE**

This is to certify that the Theme Based Project work “**PRIORITISATION OF ROADS USING MCDM APPROACHES-A CASE STUDY OF ROADS IN SPRAWL AREA OF HYDERABAD**” is being submitted by V.AISHWARYA LAXMI (1602-18-732-004), S. SOUMYA (1602-18-732-048), K. TARUN KUMAR (1602-18-732-054) in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad -500031 is a record of bonafide work carried out by him / her under our guidance.



**Dr. K. Jayasree**

**Project Guide**

**Dept. of Civil Engineering**



**Dr. B. Sridhar**

**Professor & Head**

**Dept. of Civil Engineering**

**STRENGTH AND STIFFNESS CHARACTERIZATION OF SAND  
BIOCEMENTED USING HYBRID BACTERIA**

*Project report submitted*

*in the partial fulfilment of the requirements for*

*the award of the degree of*

**Bachelor of Engineering**

in

**Civil Engineering**

By

**S. SAKETH REDDY (1602-18-732-040)**

**A. VIJAY SHIHA REDDY (1602-18-732-058)**

**VISHAL ORSU (1602-18-732-060)**

Under the guidance of

**S KESAV KUMAR ARNEPALLI**

**ASSISTANT PROFESSOR**

**JUNE-2022**



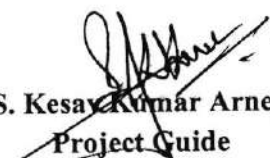
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VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)  
IBRAHIMBAGH, HYDERABAD-500 031**

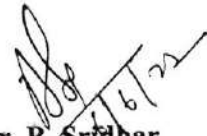


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VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)  
HYDERABAD**

**CERTIFICATE**

This is to certify that the project work entitled “**STRENGTH AND STIFFNESS CHARACTERIZATION OF SAND BIOCEMENTED USING HYBRID BACTERIA**” is being submitted by **S. SAKETH REDDY, A. VIJAY SHIHA REDDY, VISHAL ORSU** in partial fulfilment for the award of the degree of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Affiliated to Osmania University), Ibrahimbagh, Hyderabad 500031 is a record of bonafide work carried out by him/her under our guidance during the academic year **2021-22**.

  
**S. Kesava Kumar Arnepalli**  
**Project Guide**  
**Department of Civil Engineering**

  
**Dr. B. Sridhar**  
**Head of the department**  
**Department of Civil Engineering**

**ANALYSIS, DESIGN AND ESTIMATION OF MULTI STOREY  
BUILDING USING TEKLA STRUCTURAL DESIGNER**

*Project report submitted*

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

**Bachelor of Engineering**

in

**Civil Engineering**

By

**T. PHANI POOJITHA**

(1602-18-732-026)

**M. PRANAY MANVITH REDDY**

(1602-18-732-027)

**M. SRI SAI SATYA ASHISH**

(1602-18-732-050)

Under the internal guidance of

**J. CHAITANYA**

Under the external guidance of

**Ch. PRADEEP RAJ**



**DEPARTMENT OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING**

(Affiliated to Osmania University)

**IBRAHIMBAGH, HYDERABAD-500 031**

**MAY 2022**



DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)  
HYDERABAD

CERTIFICATE

This is to certify that the project work entitled **ANALYSIS, DESIGN AND ESTIMATION OF MULTI STOREY BUILDING USING TEKLA STRUCTURAL DESIGNER** is being submitted by Sri/Ms **T. Phani Poojitha, M. Pranay Manvith Reddy, M. Sri Sai Satya Ashish** in partial fulfilment for the award of Bachelor of Engineering Department, Vasavi College of Engineering (Affiliated to Osmania University), Ibrahim Bagh, Hyderabad 500031 is a record of bonafide work carried out by him/her under our guidance.

**J. CHAITANYA**

**Project guide**

**Dept. of Civil Engineering**

**Dr. B. Sridhar**

**Head of the department**  
**Dept. of Civil Engineering**

**Mr. Ch. PRADEEP RAJ**

**External guide**

**M.R.K.R. CONSTRUCTIONS**

**EFFECT OF RECYCLED CONCRETE AND  
STEEL SLAG AGGREGATES ON THE PERFORMANCE  
OF HOT MIX ASPHALT**

*Project Report Submitted*

*In the partial fulfillment of the requirements for  
the award of the degree of*

**BACHELOR OF ENGINEERING**

in

**Civil Engineering**

By

**Md. Sanaamrin (1602-18-732-024)**

**B. Vinay Sathwik (1602-18-732-302)**

**Ch. Vijaya Laxmi (1602-18-732-305)**

Under the guidance of

**Dr. B. Sridhar (Prof. & HOD)**



**DEPARTMENT OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING,**

**(AUTONOMOUS)**

**IBRAHIMBAGH, HYDERABAD-500 031**

**MAY 2022**



## DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

### CERTIFICATE

This is to certify that the Major Project work “**EFFECT OF RECYCLED CONCRETE AND STEEL SLAG AGGREGATES ON THE PERFORMANCE OF HOT MIX ASPHALT**” is being submitted by MD. SANAAMRIN, B. VINAY SATHWIK, CH. VIJAYA LAXMI in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad -500031 is a record of bonafide work carried out by them under our guidance.

Handwritten signature of Dr. B. SRIDHAR in black ink, with the date 4/6/22 written below it.

**Dr. B. SRIDHAR**

**Project Guide**

**Dept. of Civil Engineering**

Handwritten signature of Dr. B. SRIDHAR in black ink, with the date 4/6/22 written below it.

**Dr. B. SRIDHAR**

**Head of the Department**

**Dept. of Civil Engineering**

Project report on

**A LOW IMPACT DEVELOPMENT DESIGN FOR  
AN URBANIZED AREA USING SWMM  
SOFTWARE**

*Project report Submitted*

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

*of*

**Bachelor of Engineering in  
Civil Engineering**

By

<b>B. SAI ABHILASH</b>	<b>1602-18-732-032</b>
<b>D. SNEHITH</b>	<b>1602-18-732-046</b>
<b>N. VISHNU VARDHAN</b>	<b>1602-18-732-061</b>

Under the guidance of

**Dr. K. PAVAN KUMAR**

Associate Professor

**JUNE 2022**



**DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING (Autonomous)**

**Affiliated to Osmania University**

**IBRAHIMBAGH, HYDERABAD-500031**



**DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING  
(AUTONOMOUS)  
HYDERABAD  
CERTIFICATE**

This is to certify that the project work entitled “A Low Impact Development Design For An Urbanized Area Using SWMM Software” is being submitted by Mr. B. Sai Abhilash (1602-18-732-032), Mr. D. Snehith (1602-18-732-046), and Mr. N. Vishnu Vardhan (1602-17-732-311) in partial fulfilment of the award of the degree of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad-500031 is a record of bonafide work carried out by them under our guidance and supervision during academic year 2021-2022

**Dr. K. PAVAN KUMAR**

**Associate Professor**

**Dept. of Civil Engineering**

**Dr. B. SRIDHAR**

**Head of the Department**

**Dept. of Civil Engineering**

**RAINFALL RUNOFF MODELLING USING ARC  
GIS SOFTWARE FOR THE PANCHAGANGA  
CATCHMENT**

*Project report submitted*

*in the partial fulfilment of the requirements*

*for the award of the degree of*

**Bachelor of Engineering**

in

**Civil Engineering**

<b>B. SREEJA</b>	<b>1602-18-732-049</b>
<b>V. BHAVANI</b>	<b>1602-18-732-303</b>
<b>M. SHASHI REKHA</b>	<b>1602-18-732-306</b>

Under the guidance of

**Dr K Pavan Kumar (Associate professor)**



**DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING  
(AUTONOMOUS)**

**IBRAHIMBAGH, HYDERABAD-500 031**


**JUNE 2022**




**DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)  
HYDERABAD**

**CERTIFICATE**

This is to certify that the Major Project Work entitled "Rainfall Runoff Modelling Using ArcGIS Software for the Panchaganga Catchment" is being submitted by Ms. B. SREEJA (1602-18-732-049), Ms. V. BHAVANI (1602-18-732-303), Ms. M. SHASHI REKHA (1602-18-732-306) in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad -500 031 is a record of bonafide work carried out by him/her under our guidance.

  
**Dr K Pavan Kumar**  
Project Guide  
Dept. of Civil Engineering

  
**Dr. B. Sridhar**  
Head of the Department  
Dept. of Civil Engineering



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**

**CERTIFICATE**

This is to certify that the Project work entitled **Seismic Analysis and Design of Multi Storey Building in Zone II and Zone V in Manual and Staad** is being submitted by Mr. Charan Kumar Pulluri (1602-18-732-011), Mr. Joseph Birudula (1602-18-732-016) and Mr. MD Sofiyan (1602-18-732-022) in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance.

**Dr.M.V.Rama Rao**

**Professor**

**Dept. Of Civil Engineering**

**Dr.B.Sridhar**

**Head of Department**

**Dept. Of Civil Engineering**

**P.Surya Prakash**

**External Guide**



**Seismic Analysis and Design of Multi  
Storey Building in Zone II and Zone V in Manual and Staad**

*Project report Submitted*

*in the partial fulfillment of the requirements for*

*the award of the degree of*

**Bachelor of Engineering**

in

**Civil Engineering**

**By**

**P.Charan Kumar                      1602-18-732-011**

**B.Joseph                                      1602-18-732-016**

**MD Sofiyan                                  1602-18-732-022**

Under the guidance of

**Dr.M.V.Rama Rao**  
**JUNE 2022**



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING(AUTONOMOUS),**  
**(Affiliated to Osmania University)**  
**IBRAHIMBAGH, HYDERABAD – 500 031**

**MECHANICAL PROPERTIES OF FIBER  
REINFORCED CONCRETE USING METAKAOLIN  
AS A MINERAL ADMIXTURE.**

*Project report Submitted*

*in the partial fulfillment of the requirements for*

*the award of the degree of*

**Bachelor of Engineering**

*in*

**Civil Engineering**

**by**

**K. Srikanth**                      1602-18-732-051

**P. Umasri**                        1602-18-732-055

**T. Yellaiah**                      1602-18-732-301

Under the guidance of

**Dr. T. Srinivas**

Associate Professor

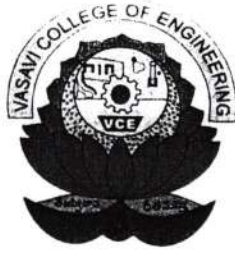


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VASAVI COLLEGE OF ENGINEERING(AUTONOMOUS),**

**(Affiliated to Osmania University)**

**IBRAHIMBAGH, HYDERABAD – 500 031**

**JUNE 2022**



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**

**CERTIFICATE**

This is to certify that the Project work entitled **Mechanical properties of fiber reinforced concrete using Metakaolin as a mineral Admixture** is being submitted by **K. Srikanth (1602-18-732-051)**, **P. Umasri (1602-18-732-055)** and **T. Yellaiah (1602-18-732-301)**, in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance.

  
**Dr. T. Srinivas**

**Associate professor**

**Dept. of Civil Engineering**

**Project Guide**

  
**Dr. B. Sridhar**

**Head of the Department**

**Dept. Of Civil Engineering**



DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)  
HYDERABAD

CERTIFICATE

This is to certify that the project work entitled "PREDICTION OF COMPRESSIVE STRENGTH OF CONCRETE WITH MANUFACTURED SAND USING ARTIFICIAL NEURAL NETWORKS" the project, being submitted by Sri/Ms. MEDI AVANI, KOTHURI ELNA, KOLTE SWAPNA in partial fulfilment for the award of the degree of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Affiliated to Osmania University), Ibrahim Bagh, Hyderabad 500 031 is a record of bonafide work carried out by him/her under our guidance during the academic year 20212022.

Dr. C. Mohanlal

Project Guide,  
Associate Professor,  
Dept. of Civil Engineering.

Dr. B. Sridhar

Head of the Department  
Dept. of Civil Engineering.

A PROJECT REPORT ON  
**PREDICTION OF COMPRESSIVE STRENGTH OF CONCRETE WITH  
MANUFACTURED SAND USING ARTIFICIAL  
NEURAL NETWORKS**

*Project report submitted in the partial fulfillment of the requirements for the award of t  
degree of*

**Bachelor of Engineering  
in**

**Civil Engineering**

By

**MEDI AVANI (1602-18-732-007)**

**KOTHURI ELNA (1602-18-732-012)**

**KOLTE SWAPNA (1602-18-732-053)**

Under the guidance of

**Dr. C. MOHAN LAL**

**ASSOCIATE PROFESSOR**

**JUNE- 2022**



**DEPARTMENT OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING**

**(Affiliated to Osmania University)**

**IBRAHIMBAGH, HYDERABAD 500031**

**RESERVOIR ROUTING BY STORAGE INDICATION METHOD  
AND CHANNEL ROUTING BY MUSKINGUM METHOD IN J.C  
RAO DEVADULA LIFT IRRIGATION PROJECT**

*Project report submitted*

*in the partial fulfillment of the requirements for*

*the award of the degree of*

**Bachelor of Engineering**

in

**Civil Engineering**

By

**HEMANTH VARMA KUNAPARAJU (1602-18-732-014)**

**Y. RAJA SAKETH (1602-18-732-029)**

**KONDAM SANJITH REDDY (1602-18-732-042)**

Under the guidance of

**S KESAV KUMAR ARNEPALLI**

**ASSISTANT PROFESSOR**

**JUNE 2022**



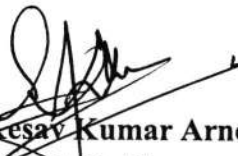
**DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING,  
(AUTONOMOUS)  
IBRAHIMBAGH, HYDERABAD-500 031**





**DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)  
HYDERABAD**

**CERTIFICATE**

This is to certify that the project work entitled “**RESERVOIR ROUTING BY STORAGE INDICATION METHOD AND CHANNEL ROUTING BY MUSKINGUM METHOD IN J.C RAO DEVADULA LIFT IRRIGATION PROJECT**” is being submitted by **HEMANTH VARMA KUNAPARAJU , Y. RAJA SAKETH , KONDAM SANJITH REDDY** in partial fulfillment for the award of the degree of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500031 is a record of bonafide work carried out by him/her under our guidance during the academic year **2021-2022**.

  
**S. Kesav Kumar Arnepalli**  
Project Guide  
Department of Civil Engineering

  
**Dr. B. Sridhar**  
Head Of The Department  
Department Of Civil Engineering

  
**Mr. J Ramesh**  
External Guide  
Kranthi Edifice Pvt Ltd.

**MECHANICAL PROPERTIES OF TRIPLE BLENDED  
CONCRETE USING POLYPROPYLENE AS FIBRE**

*Project report submitted*

*in the partial fulfillments of the requirements for*

*the award of the degree*

**Bachelor of Engineering**

in

**Civil Engineering**

By

**S. SAI GANESH** 1602-18-732-034

**N. SAI SATHVIK** 1602-18-732-037

**N. SAI VARSHITHA** 1602-18-732-038

Under the guidance of

**Prof. S. VIJAYA KUMAR**



**DEPARTMENT OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING,**

**(AUTONOMOUS)**

**IBRAHIMBAGH, HYDERABAD – 500 031**

**MAY 2022**



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**  
**CERTIFICATE**

This is to certify that the Project work entitled “**MECHANICAL PROPERTIES OF TRIPLE BLENDED CONCRETE USING POLYPROPYLENE AS FIBRE**” is being submitted by **S.SAI GANESH, N.SAI SATHVIK, N.SAI VARSHITHA** in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance during the academic year 2021-2022.

  
**Prof. S. VIJAYA KUMAR**

**Associate Professor**

**Dept. of Civil Engineering**

  
6/6/22

**Dr. B. SRIDHAR**

**Head of the Department**

**Dept. of Civil Engineering**

**Feasible Study of Municipal Solid Waste Incinerated Bottom  
Ash in Flexible Road Pavements.**

*Project Report Submitted*

*In the partial fulfillment of the requirements for  
the award of the degree of*

**BACHELOR OF ENGINEERING**

in

**Civil Engineering**

By

**B. Anand Kumar (1602-18-732-004)**

**S. Chandu (1602-18-732-010)**

**Shafaqat Hillal Malik (1602-18-732-043)**

Under the guidance of

**Ms. P. Dhatri (Assistant professor)**



**DEPARTMENT OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING,**

**(AUTONOMOUS)**

**IBRAHIMBAGH, HYDERABAD-500 031**

**May 2022**



## DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

### CERTIFICATE

This is to certify that the Major Project work “**Feasibility of Municipal Incinerated Bottom Ash in Road Pavements**” is being submitted by B. Anand Kumar, S. Chandu and Shafaqat Hillal Malik in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad -500031 is a record of bonafide work carried out by them under our guidance.

**Ms. P. Dhatri**

**Project Guide**

**Dept. of Civil Engineering**

**Dr. B. Sridhar**

**Head of Department**

**Dept. of Civil Engineering**

**PROJECT REPORT ON  
SOIL INVESTIGATIONS AND CONSTRUCTION PROGRESS  
MONITORING FOR CANAL LINING IN SITA RAMA LIFT  
IRRIGATION PROJECT**

*Project report Submitted*

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

**Bachelor of Engineering**

in

**Civil Engineering**

by

**JAGADISH V (1602-18-732-015)**

**FATHIR HUSSAIN MD (1602-18-732-023)**

**THANMAYEE V (1602-18-732-056)**

Under the guidance of

**DR. JAYASREE KUCHU**



**DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING, (AUTONOMOUS)  
IBRAHIMBAGH, HYDERABAD – 500 031**

**MAY 2022**



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**  
**CERTIFICATE**

This is to certify that the Project work entitled “ **Soil investigation and construction progress monitoring for canal lining in Sita Rama Lift Irrigation Project**” is being submitted by Ms.V.Thanmayee , Mr.Jagadish V and Mr. Md.Fathir Hussain in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance.

**Dr. Jayasree Kuchu**  
**Project Guide**  
**Dept. of Civil Engineering**

**Dr. B.Sridhar**  
**Head of the Department**  
**Dept. of Civil Engineering**

**B. Aswini Srinivas**  
**External guide**

**Sri Swetharka Construction Pvt. Ltd.**



**DESIGN AND ANALYSIS OF G+12 BUILDING USING  
STAAD PRO**

*Project report Submitted*

*In the partial fulfillment of the requirements for*

*The award of the degree of*

**Bachelor of Engineering**

In

**Civil Engineering**

By

**C. Likitesh Kumar      1602-18-732-020**

**S.K. Sai Kruthik      1602-18-732-017**

**CH. Shashank      1602-17-732-043**

Under the guidance of

**Ms. PUNUKOLLU DHATRI**

**B.E, M.Tech**

**Assistant professor**



**DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS),  
(Affiliated to Osmania University)  
IBRAHIMBAGH, HYDERABAD – 500 031**



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**  
**CERTIFICATE**

This is to certify that the Project work entitled **Design and Analysis of G+12 Residential Building using STAAD Pro** is being submitted by Mr. C. Likitesh Kumar (1602-18-732-020), Mr. S. K. Sai Kruthik (1602-18-732-017) and Mr. CH. Shashank (1602-17-732-043) in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance.

**Ms. Punukollu Dhatri**

**Internal Project Guide**

**Dept. of Civil Engineering**

**Dr. B. Sridhar**

**Head of the Department**

**Dept. of Civil Engineering**

**Mr. G. Raja Shekhar**

**External Project Guide**

**General Manager (F&A), Tripura Constructions**

**EXPLORING THE EFFICIENCY OF BIOCOAGULANT FOR THE  
REMOVAL OF CONGO RED DYE FROM DYE WASTEWATER**

*Project Report submitted*

*In the partial fulfillment of the requirements*

*for the award of the degree of*

**BACHELOR OF ENGINEERING**

in

**Civil Engineering**

By

**Muneshwar Manish Vardhan (1602-18-732-021)**

**Akudari Rajkumar (1602-18-732-030)**

**Munavath Yashwanth (1602-18-732-062)**

**Muddasani Kranthi Kumar (1602-18-732-304)**

Under the guidance of

**Ms. KRATI SHARMA (Assistant professor)**



**DEPARTMENT OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING,**

**(AUTONOMOUS)**

**IBRAHIMBAGH, HYDERABAD-500 031**

**MAY 2022**



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**  
**CERTIFICATE**

This is to certify that the project work entitled “EXPLORING THE EFFICIENCY OF BIOCOAGULANT FOR THE REMOVAL OF CONGO RED DYE FROM DYE WASTEWATER” is being submitted by M.Manishvardhan, A.Rajkumar, M.Yashwanth, and M.KranthiKumar in partial fulfillment for the award of Bachelor of Engineering in Civil engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad, 500031 is a record of bonafide work carried out by them under our guidance.

**Ms. KRATI SHARMA**

**Project Guide**  
**Dept. of Civil Engineering**

**Dr.B.SRIDHAR**

**Head of the Department**  
**Dept. of Civil Engineering**

A PROJECT REPORT ON

**MAPPING OF WATER  
QUALITY INDEX BY USING  
GIS.**

*Project report Submitted*

*in the partial fulfillment of the requirements for  
the award of the degree of*

**Bachelor of Engineering**

in

**Civil Engineering**

Submitted by:

**A. AKHIL REDDY**                      1602-18-732-002

**B. ARAVIND**                              1602-18-732-006

**R. SHARAN**                                1602-18-732-044

Under the guidance of

**Ms. Krati Sharma**



**DEPARTMENT  
OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING  
(AUTONOMOUS)**

AFFILIATED TO OSMANIA UNIVERSITY

HYDERABAD




**DEPARTMENT OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF  
ENGINEERING (AUTONOMOUS)**

**CERTIFICATE**

This is to certify that the Major Project work “**Mapping Of Water Quality Index Using GIS**” is being submitted by A. Akhil Reddy(1602-18- 732-002), B.Aravind(1602-18-732-006), R.Sharan(1602-18-732-044) in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), IbrahimBagh, Hyderabad -500031 is a record of bonafide work carried out by him/her under my guidance.

  
**Ms . Krati Sharma**

**Project Guide**

**Dept .of Civil Engineering**

  
**Dr B. Sridhar**

**Professor & Head**

**Dept. of Civil Engineering**

**Project report on**  
**Scheduling and Cost estimation of a Steel Flyover using**  
**Primavera Software**

*Project report Submitted*

in the partial fulfillment of the requirements for

the award of the degree of

**Bachelor of Engineering**

In

**Civil Engineering**

By

**V SAAKETH GOUD**

(1602-18-732-031)

**B SAI PRANEETH**

(1602-18-732-036)

**VISHAL DILLIKAR**

(1602-18-732-059)

Under the guidance of

**Mr. J. CHAITANYA**

(Assistant Professor)



**DEPARTMENT OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING,**

**(AUTONOMOUS)**

**IBRAHIMBAGH, HYDERABAD – 500 031**

**2018-2022**



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**

**CERTIFICATE**

This is to certify that the project work entitled "Scheduling and Cost Estimation of a Steel Flyover using Primavera Software" is being submitted by

V SAAKETH GOUD	(1602-18-732-031)
B SAI PRANEETH	(1602-18-732-036)
D VISHAL	(1602-18-732-059)

in partial fulfilment of the award of the degree of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad-500031 is a record of bonafide work carried out by them under our guidance and supervision during academic year 2021-2022.

  
**Mr. J. CHAITANYA**

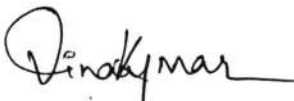
(Assistant Professor)

Dept. of Civil Engineering

  
**Dr. B. SRIDHAR**

Head of the Department

Dept. of Civil Engineering

  
**VINAY KUMAR**

Site Engineer ( External Guide)

**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**

**HYDERABAD**

**CERTIFICATE**

This is to certify that the Theme Based Project work entitled DESIGN OF FLEXIBLE PAVEMENT USING IITPAVE SOFTWARE is being submitted by MANASA (1602-19-732-018), SAI PRATEEK (1602-19-732-037) PAVAN (1602-19-732-062) in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad 500031 is a record of Bonafede work carried out by him / her under our guidance.



Dr.K.Jayashree  
Project Guide  
Dept. of Civil Engineering



Dr. B.Sridhar  
Professor & Head  
Dept. of Civil Engineering



**DEPARTMENT OF CIVIL ENGINEERING VASAVI  
COLLEGE OF ENGINEERING HYDERABAD**

**CERTIFICATE**

This is to certify that the Major Project work “**MODE CHOICE ANALYSIS OF E-MOBILITY FOR SUSTAINABLE TRANSPORTATION**” is being submitted by B.GREESHMA(1602-19- 732-012), MUSHARRAF (1602-19-732-045), S.SUNEETH KUMAR(1602-18-732-059) in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad -500031 is a record of bonafide work carried out by him / her under our guidance

**K.JAYASREE MAM**

**Project Guide**

**Dept. of Civil Engineering**

**Dr. B. SRIDHAR**

**Head of the Department**

**Dept. of Civil Engineering**

**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**  
**CERTIFICATE**

This is to certify that the Theme Based Project work entitled Experimental Study on the Strength Properties of Self Curing Concrete is being submitted by (1602-19-732-032) Revanth, (1602-19-732-034) Rohinimithra, (1602-19-732-057) Srikar in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance.



**S. Vijaykumar**

**Project Guide**

**Dept. of Civil Engineering**



**Dr. B. Sridhar**

**Professor & Head**

**Dept. of Civil Engineering**



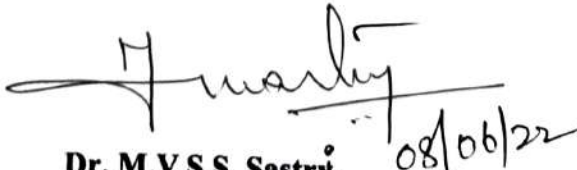
**DEPARTMENT OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**

**HYDERABAD**

**CERTIFICATE**

This is to certify that the Theme Based Project work entitled as Analysis of data using Quantum Geographic Information Systems software is being submitted by P. Abhishek Gupta [1602-19-732-002], R. Muktheshwar [1602-19-732-023] & K. Shiva Chaitanya [1602-19-732-050] done in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by them under our guidance.

  
**Dr. M.V.S.S. Sastry** 08/06/22

Project Guide – Associate Professor

Dept. of Civil Engineering

  
08/06/22

**Dr. B. Sridhar**

Professor & Head

Dept. of Civil Engineering



DEPARTMENT OF CIVIL ENGINEERING  
**VASAVI COLLEGE OF ENGINEERING(Autonomous)**  
(Affiliated to Osmania University)  
HYDERABAD

### **CERTIFICATE**

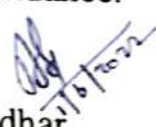
This is to certify that the Theme Based Project work entitled **ROAD SAFETY AUDITING** is being submitted by Charan, Sachit and Shesha bearing roll numbers

1602-19-732-008, 1602-19-732-009, 1602-19-732-049 respectively of Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad-500031 is a record of bonafide work carried out by him/her under our guidance.

  
Dr. K. Jaysree

Project Guide

Dept. of Civil Engineering

  
Dr. B. Sridhar

HOD

Dept. of Civil Engineering


**DEPARTMENT OF CIVIL ENGINEERING**

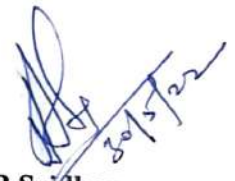
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**

**HYDERABAD**

**CERTIFICATE**

This is to certify that the Theme Based Project work entitled Experimental Study on the Strength Properties of admixture based Concrete is being submitted by (1602-19-732-028) S. PALLAVI CHARITHA, (1602-19-732-030) GANTA PRAVEEN, (1602-19-732-044) KALAKONDA SATWIK in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad 500 031 is a record of bonafide work carried out by him/her under our guidance.

  
**Dr T SRINIVAS**  
**Project Guide**  
**Dept. of Civil Engineering**

  
**Dr. B. Sridhar**  
**Professor & Head**  
**Dept. of Civil Engineering**



DEPARTMENT OF CIVIL ENGINEERING


VASAVI COLLEGE OF ENGINEERING


(AUTONOMOUS)

HYDERABAD

**CERTIFICATE**

This is to certify that the Theme Based Project work entitled **ANALYSIS AND CONSTRUCTION OF PORTABLE FOLDED HOUSES** is being submitted by Mahender (1602-19-732-017), Nitya (1602-19-732-026), Runith (1602-19-732-035) done in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad 500 031 is a record of bonafide work carried out by him/her under our guidance.

  
Krati Sharma  
Project Guide Department  
Dept. of Civil Department

  
Dr. B. Sridhar  
Professor & Head of the Department  
Dept. of Civil Engineering

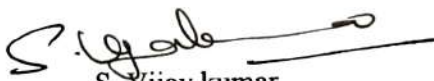


DEPARTMENT OF CIVIL ENGINEERING  
**VASAVI COLLEGE OF ENGINEERING(Autonomous)**  
(Affiliated to Osmania University)  
HYDERABAD

**CERTIFICATE**

This is to certify that the Theme Based Project work entitled  
**PLASTIC BRICKS** is being submitted by Aashrith, Devender  
and Sampath bearing roll numbers

1602-19-732-001, 1602-19-732-011, 1602-19-732-042 respectively of Civil Engineering Department,  
Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad-500031 is a record of  
bonafide work carried out by him/her under our guidance.

  
S. Vijay Kumar

Project Guide

Dept. of Civil Engineering

  
16/22

Dr. B. Sridhar

HOD


Dept. of Civil Engineering


VASAVI COLLEGE OF ENGINEERING (autonomous)  
(Affiliated to OSMANIA UNIVERSITY)  
IBRAHIMBAGH, HYDERABAD.

**CERTIFICATE**

This is to certify that this theme based project report entitled "**PIPE NETWORK ANALYSIS USING EPANET**" is a bonafide record of theme based project carried out by

BHARGAVA TEJ.IRANGANT	1602-19-732-006
JYOTSNA REDDY.DOOREDDY	1602-19-732-016
VALUVA.SONAKSHI	1602-19-732-054

  
**Dr. Pavan Kumar**  
Project Guide  
Dept. of Civil Engineering

  
**Dr. B. Sridhar**  
Professor & Head  
Dept. of Civil Engineering



**DEPARTMENT OF CIVIL ENGINEERING**

**VASAVI COLLEGE OF ENGINEERING, HYDERABAD**

**CERTIFICATE**

This is to certify that the project work entitled “**STUDY ON STRENGTH AND BEHAVIOUR OF PAVEMENTS USING STEEL SLAG AGGREGATES**” is being submitted by Madupu Avin , Chanda Pavani, Kojjarapu Harsha in partial fulfilment for the award of Bachelor of Engineering in Civil engineering Department, Vasavi College of Engineering (Affiliated to Osmania University), Ibrahimbagh , Hyderabad, 500031 is a record of bonafide work carried by them under our guidance.

*J. Chaitanya*  
**J. CHAITANYA**

**Project Guide**  
**Dept. of Civil Engineering**

*[Signature]*  
**Head of Department**  
**Dept. of Civil Engineering**

**ACKNOWLEDGMENT**

We express our sincere gratitude to our guide, **J. Chaitanya** ,Department of Civil Engineering, Vasavi College of Engineering, for his guidance and support throughout the project. We thank Principal for supporting us by providing all the facilities.

B-21




DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)  
HYDERABAD

CERTIFICATE

This is to certify that the Theme Based Project work entitled A Case Study on a Green Building is being submitted by G. Rishikar Reddy [1602-19-732-033], S. Hari Prasad [1602-19-732-051], G. Shivakrushna [1602-19-732-305] done in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by them under our guidance.

  
Dr. C. Mohanlal

Project Guide – Associate Professor  
Dept. of Civil Engineering

  
Dr. B. Sridhar

Professor & Head  
Dept. of Civil Engineering

DEPARTMENT OF CIVIL ENGINEERING  
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)  
HYDERABAD

CERTIFICATE


This is to certify that the Theme Based Project work entitled  
"RAINWATER HARVESTING" is being submitted by

K.MANEESSHA- 1602-19-732-020

B.NIVEDHITHA-1602-19-732-027

J.SOHITH KUMAR-1602-19-732-053

done in Civil Engineering Department, Vasavi College of Engineering (Autonomous),  
Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under  
our guidance.

  
Sri Shiva Keshav kumar  
Project Guide  
Dept. of Civil Engineering

  
Dr. B.Sridhar  
Professor & H.O.D  
Dept. of Civil Engineering



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**

**CERTIFICATE**

This is to certify that the Theme Based Project work entitled *Traffic Studies and Bridge Design* is being submitted by Sri / *Ms Neelima, Saiteja and Ziyad* done in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance.

(Name of the guide)

**Project Guide**

**Head**

**Dept. of Civil Engineering**

**Dr. B.Sridhar**

**Professor &**

**Dept. of Civil Engineering**



**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**

**CERTIFICATE**

This is to certify that the Theme Based Project work entitled *Traffic Studies and Bridge Design* is being submitted by Sri / *Ms Neelima, Saiteja and Ziyad* done in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance.

(Name of the guide)

**Project Guide**

**Head**

**Dept. of Civil Engineering**

**Dr. B.Sridhar**

**Professor &**

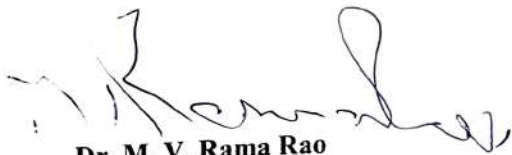
**Dept. of Civil Engineering**

**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**

**HYDERABAD**

**CERTIFICATE**

This is to certify that the Theme Based Project work entitled DESIGN OF HOMEMADE WATER FILTER is being submitted by NIKHIL SAI RAM REDDY (1602-19-732-024), M.SAITHEJA(1602-19-732-038), M.SUSHMA(1602-19-732-306) in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance.



**Dr. M. V. Rama Rao**  
**Project Guide**  
**Dept. Of Civil Engineering**



**Dr. B. Sridhar**  
**Professor & Head**  
**Dept. Of Civil Engineering**

**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)**  
**HYDERABAD**  
**CERTIFICATE**

This is to certify that the Theme Based Project work entitled Experimental Study on Pervious Concrete is being submitted by (1602-19-732-019) P.MANASA REDDY, (1602-19-732-022) MOHAMMED SHEEBA, (1602-19-732-304) P.ROHITH in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad 500 031 is a record of bona fide work carried out by him / her under our guidance.



**Dr. M.V.S.S.SASTRI**  
**Project Guide**  
**Dept. of Civil Engineering**



**Dr. B.Sridhar**  
**Professor & Head**  
**Dept. of Civil Engineering**



**DEPARTMENT OF CIVIL ENGINEERING**  
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)  
HYDERABAD

**CERTIFICATE**

This is to certify that the Theme Based Project work entitled "DESIGN OF OVERHEAD WATER TANK FOR VASAVI COLLEGE CAMPUS BY USING STAAD PRO" is being submitted by Sri / Ms. 1602-19-732-302, 55,52 done in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500031 is a record of bonafide work carried out by him / her under our guidance.

Date:

  
**Lecturer**

Department of  
Civil Engineering

  
**HOD**

Department of  
Civil Engineering

**PRINCIPAL**

Vasavi College  
of engineering

**DEPARTMENT OF CIVIL ENGINEERING**  
**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS) HYDERABAD.**

**CERTIFICATE**

This is to certify that the Theme Based Project work entitled "Water absorbing roads(pervious pavement)" being submitted by (1602-19-732-046)Sharmista, (1602-19-732-031)Ravali, (1602-19-732-058) Srivani in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering Department, VasaviCollege of Engineering (Autonomous), Ibrahim Bagh, Hyderabad 500 031 is a record of bonafide work carried out by him / her under our guidance.



**S. Keshav kumar**  
**Project Guide**

**Dept. of Civil Engineering**



**Dr. B.Sridhar**  
**Professor & Head**

**Dept. of Civil Engineering**



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~~Associate Professor~~  
~~Assistant~~  
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1602-19-732-025, 1602-19-732-036, 1602-19-732-040 respectively of Civil  
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This is to certify that the Theme Based Project work entitled Experimental Study on the Strength Properties of Steel Fiber Reinforced Concrete is being submitted by (1602-19-732-003) K.ANVESH, (1602-19-732-043) SHANTHA RAJ, (1602-19-732-307) KRANTHI CHARAN in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahim Bagh, Hyderabad 500 031 is a record of bonafide work carried out by him/her under our guidance.

  
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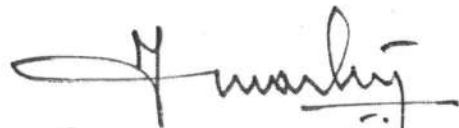
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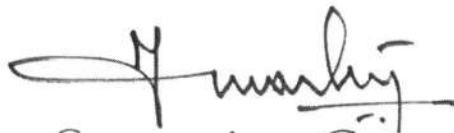
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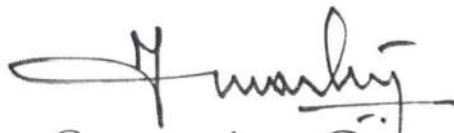
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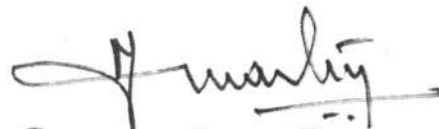
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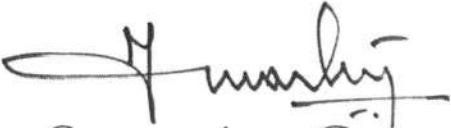
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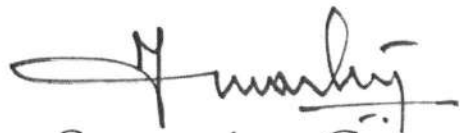
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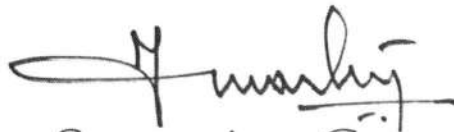
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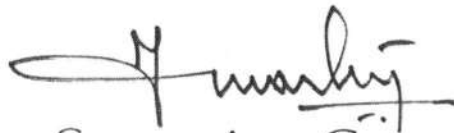
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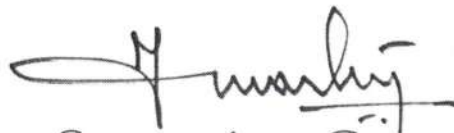
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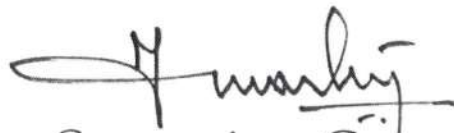
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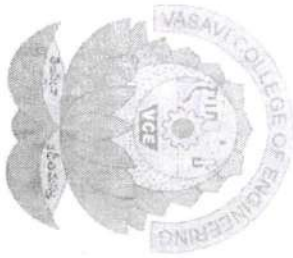


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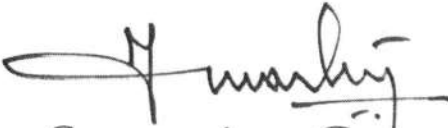
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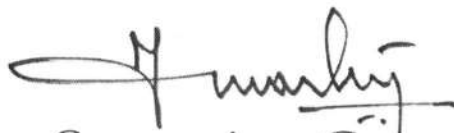
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*This is to certify that Mr. / Ms. P. Sindhuja Roll No. 1602-20-732-302 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **08.08.2022 to 13.08.2022** in the academic year 2021-22 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*

Surveying Camp

Coordinator

(Dr. M. V. S. S. SASTRI)

H.O.D. (Civil)

HEAD

Dept. of Civil Engg.

Vasavi College of Engg.

Hyderabad-500 031.

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This is to certify that Mr. / Ms. K. Madhu Roll No. 1602-20-732-303  
had successfully completed the assigned work on collecting data from the field in  
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*This is to certify that Mr. / Ms. V. Jyothirmai Roll No. 1602-20-732-304, had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **23.08.2022 to 27.08.2022** in the academic year 2021-22 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*

  
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This is to certify that Mr. / Ms. N. Vinay Roll No. 1602-20-732-305  
had successfully completed the assigned work on collecting data from the field in  
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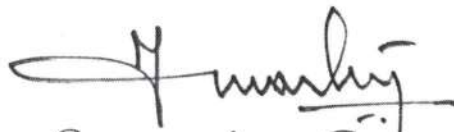
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CERTIFICATE

This is to certify that Mr. / Ms. M. pavan Kalyan Roll No. 1602-20-732-~~307~~  
had successfully completed the assigned work on collecting data from the field in  
Surveying Camp during from **23.08.2022 to 27.08.2022** in the academic year  
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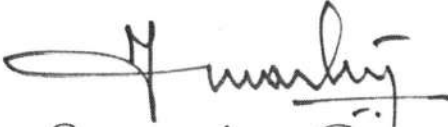
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This is to certify that Mr. / Ms. M. Vinay Roll No. 1602-20-732-308  
had successfully completed the assigned work on collecting data from the field in  
Surveying Camp during from **23.08.2022 to 27.08.2022** in the academic year  
2021-22 organized by the Department of Civil Engineering, Vasavi College of  
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*This is to certify that Mr. / Ms. Shaik Ameen Roll No. 1602-20-732-309 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **08.08.2022 to 13.08.2022** in the academic year 2021-22 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*

Surveying Camp  
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CERTIFICATE

This is to certify that Mr. / Ms. B.Mamatha Roll No. 1602-20-732-0309  
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H.O.D.(Civil)  
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This is to certify that Mr. / Ms. R. Yeshwanth Roll No. 1602-20-732-310  
had successfully completed the assigned work on collecting data from the field in  
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H.O.D. (Civil)

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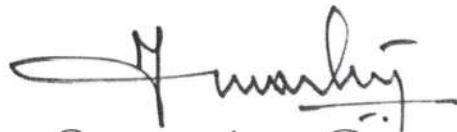
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