

ANALYSIS AND DESIGN OF REINFORCE CONCRETE T-BEAM GIRDER ROAD BRIDGE

Project report submitted

*In partial fulfilment of the requirements for the award of the degree of
Bachelor of Engineering*

In

Civil Engineering

By

SURE MAHESH (1602-20-732-015)

ASAMWAR MANOJ KUMAR (1602-20-732-016)

GUNDLA SATHYA BHAVAN KUMAR(1602-20-732-029)

Under the guidance of

Mr.G.Raghavendra

Associate Professor



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

MAY 2024



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

HYDERABAD

CERTIFICATE

This is to certify that the Project work entitled “ANALYSIS AND DESIGN OF REINFORCED CONCRETE T-BEAM GIRDER ROAD BRIDGE” is being submitted by Sri / Ms. Sure Mahesh (1602-20-732-015), Asamwar Manoj Kumar (1602-20-732-016), Gundla Sathya Bhavan Kumar(1602-20-732-029), 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.



G. Raghavendra

Project Guide

Dept. of Civil Engineering



Dr . B. Sridhar

Head of the Department

Dept. of Civil Engineering

**PLANNING, DESIGN AND COST ANALYSIS FOR RESIDENTIAL
VILLA**

Project report submitted

*In partial fulfilment of the requirements for the award of the degree of
Bachelor of Engineering*

In

Civil Engineering

By

M. HARSHA (1602-20-732-010)

G. NARENDRA (1602-20-732-017)

A. SANJAY (1602-20-732-027)

Under the guidance of

Dr.M.V.Rama Rao

Professor



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

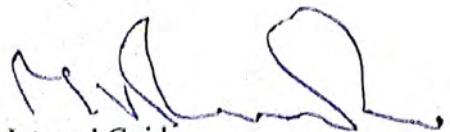
MAY 2024



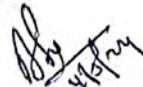
DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
HYDERABAD

CERTIFICATE

This is to certify that this project report entitled "**PLANNING, DESIGN AND COST ANALYSIS FOR RESIDENTIAL VILLA**" by M.Harsha(1602-20-732-010), G. Narendra(1602-20-732-017), A. Sanjay (1602-20-732-027), submitted in partial fulfillment of the requirements for the degree of Bachelor of Engineering in civil Engineering of the Vasavi College of Engineering, Hyderabad, during the academic year 2023-24, is a Bonafide record of work carried out under my guidance and supervision.


Internal Guide

DR. M. V. Rama Rao
Professor, Dept of CIVIL,
Vasavi College of Engineering, Hyd.


I accept the Report

Dr. B. Sridhar
Professor & HOD, Dept. of CIVIL
Vasavi College of Engineering,

HIGH PERFORMANCE CONCRETE MODIFIED WITH ULTRAFINE FLY ASH AND RECYCLED AGGREGATES

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

By

SUMANTH.M (1602-20-732-041)

PEDDI JESHWANTH (1602-20-732-301)

KANDARAPU MADHU (1602-20-732-303)

Under the guidance of

Dr. M.V.S.S. SASTRI

ASSOCIATE PROFESSOR



**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
IBRAHIMBAGH, HYDERABAD-500 031
MAY-2024**

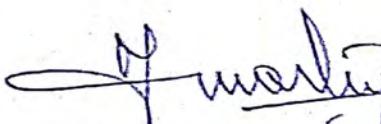


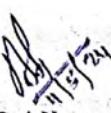
III

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

CERTIFICATE

This is to certify that the project work entitled "HIGH PERFORMANCE CONCRETE MODIFIED WITH ULTRAFINE FLY ASH AND RECYCLED AGGREGATE" is being submitted by SUMANTH.M, P.JESHWANTH, K.MADHU 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 him/her under our guidance during the academic year 2023-2024.


Dr. M.V.S.S. SASTRI
Project Guide
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 CERAMIC WASTE POWDER AND BLAST FURNACE SLAG
USING ARTIFICIAL NEURAL NETWORKS**

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

Bachelor of Engineering

in

Civil Engineering

By

CHANDRAHAS REDDY VEDIRE (1602-20-732-008)

LASYA SRI GOSHIKONDA (1602-20-732-013)

SAI ANIRUDH ADEPU (1602-20-732-023)

Under the guidance of

DR.C.MOHAN LAL

ASSOCIATE PROFESSOR



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (Autonomous)

(Affiliated to Osmania University)

Ibrahim Bagh, Hyderabad



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

HYDERABAD

CERTIFICATE

This is to certify that the Major Project work entitled “Prediction of Compressive Strength of Concrete with Ceramic Waste Powder and Blast Furnace Slag using Artificial Neural Networks“ is being submitted by **Chandras Reddy Vedire(1602-20-732-008)** , **Lasya Sri Goshikonda(1602-20-732-013)** , **Sai Anirudh Adepu(1602-20-732-023)** in partial full filling 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 my guidance and supervision during academic year 2023-2024.

DR.C.MOHAN LAL

Project Guide
Dept. of Civil Engineering

Dr. B. SRIDHAR
Head of the Department
Dept. of Civil Engineering

**EFFECT OF FIBERS ON THE BOND BEHAVIOUR
BETWEEN DISTINCT LAYERS OF ORDINARY
CEMENT CONCRETE AND SELF COMPACTING
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

MULE MADHUMOHAN REDDY (1602-20-732-014)

AERLA PRASHANTH REDDY (1602-20-732-019)

GUJJULA RAM PRASAD REDDY (1602-20-732-022)

Under the Guidance of

Dr. S. Vijaya Kumar

(Associate Professor)



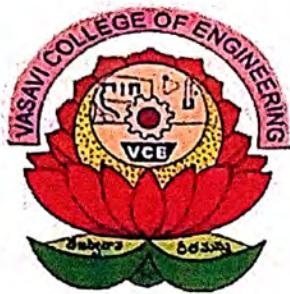
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VASAVI COLLEGE OF ENGINEERING (Autonomous)

(Affiliated to Osmania University)

Ibrahim Bagh, Hyderabad-500031

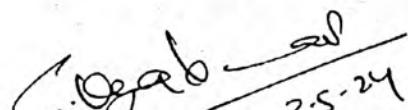
MAY 2024



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

CERTIFICATE

This is to certify that the Major Project work entitled “Effect of Fibers on the Bond Behaviour Between Distinct Layers of Ordinary Cement Concrete and Self Compacting Concrete“ is being submitted by Mule Madhumohan Reddy (1602-20-732-014) , Aerla Prashanth Reddy (1602-20-732-019) , Gujjula Ram Prasad Reddy (1602-20-732-022) in partial full filling 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 my guidance and supervision during academic year 2022-2023.


3.5.24
DR. S. VIJAYA KUMAR

Project Guide
Dept. of Civil Engineering


3.5.24
03.05.2024

Dr. B. SRIDHAR
Head of the Department
Dept. of Civil Engineering

11

Feasibility of Municipal Solid Waste Incinerated Bottom Ash in Road Pavements.

Project Report

Submitted

By

Sapavath Prasad (1602-20-732-018)

Gunji Preet (1602-20-732-020)

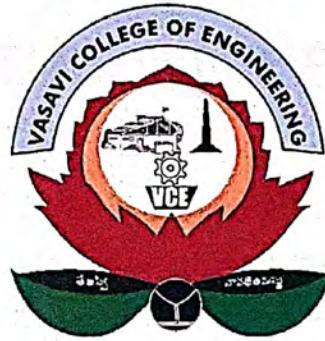
Banothu Rajendra (1602-20-732-021)

Under the guidance of

Ms. P. Dhatri (Assistant professor)



**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 Major Project work “**Feasibility of Municipal Incinerated Bottom Ash in Road Pavements**” is being submitted by S. Prasad, G.Preet and B.Rajendra done 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 during the academic year **2023-2024**.

Ms. P. Dhatri

Project Guide

Dept. of Civil Engineering

Dr. B. Sridhar

Head of Department

Dept. of Civil Engineering

ANALYSIS OF TRAFFIC CONGESTION AT CONTROLLED
INTERSECTIONS

Project report submitted

*In partial fulfilment of the requirements for the award of the degree of
Bachelor of Engineering*

In

Civil Engineering

By

A ASHOK (1602-20-732-006)

S TARUN KUMAR (1602-20-732-044)

K VAMSHI(1602-20-732-049)

Under the guidance of

DR.B.SRIDHAR

HEAD OF THE DEPARTMENT



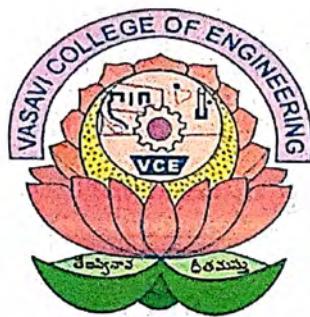
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VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO OSMANIA UNIVERSITY)

IBRAHIMBAGH, HYDERABAD-500 031

MAY 2024



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

CERTIFICATE

This is to certify that the Project work entitled “ANALYSIS OF TRAFFIC CONGESTION AT CONTROLLED INTERSECTIONS” is being submitted by Sri / Ms. Azmeera Ashok (1602-20-732-006), Sompari Tarun Kumar (1602-20-732-044), Kannepogu Vamshi(1602-20-732-049), 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. B. Sridhar

Project Guide

Dept. of Civil Engineering

05.03.2024

Dr. B. Sridhar

Head of the Department

Dept. of Civil Engineering

FRAMEWORK FOR SUSTAINABLE AND HIERARCHIAL RURAL ROAD NETWORK

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

Bachelor of Engineering
in
Civil Engineering

By
N. Anish (1602-20-732-005)
Y.V. Sai Shreya (1602-20-732-048)
A. Vinay (1602-20-732-051)

Under the guidance of
Dr. K. Jayasree
MAY 2024



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



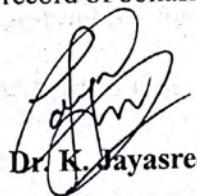
DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING

HYDERABAD

CERTIFICATE

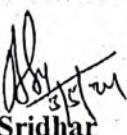
This is to certify the project work entitled **Framework for Sustainable and Hierarchical rural road network** being submitted by N. Anish (1602-20-732-005), Y. V. Sai Shreya (1602-20-732-048), A. Vinay (1602-20-732-051) in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College of Engineering (Affiliated to Osmania University), Ibrahimbagh, Hyderabad 500031 is a record of bonafide work carried out by him/ her under our guidance.



Dr. K. Jayasree

Project Guide

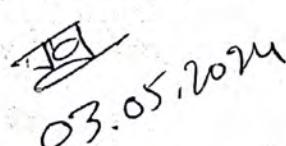
Dept. of Civil Engineering



Dr. B. Sridhar

Head of the Department

Dept. of Civil Engineering



03.05.2014

Intersection Delay Assessment: A Triangulated Approach

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

Bachelor of Engineering in Civil Engineering By

Alampalli Bhavani 1602-20-732-007

Veerabomma Sai Teja **1602-20-732-025**

Varikuppala Siddhartha 1602-20-732-036

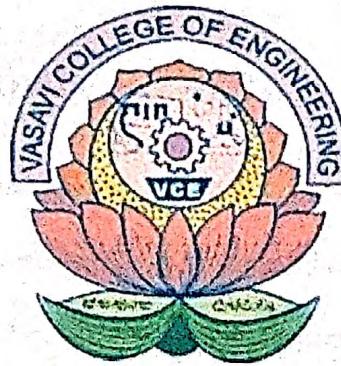
Under the guidance of
Dr. K. Jayasree
Associate Professor



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 “Intersection Delay Assessment: A Triangulated Approach” is being submitted by Alampalli Bhavani (1602-20-732-007), Veerabomma Sai Teja (1602-20-732-025), Varikuppala Siddhartha(1602-20-732-036) 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 Bonafede work carried out by him / her under our guidance.

Dr. K. Jayasree

Internal Project Guide

Dept. of Civil Engineering

Dr. B. Sridhar

Professor & Head

Dept. of Civil Engineering

A Project Report on

**EVALUATING THE PERFORMANCE OF
BITUMINOUS PAVEMENT USING COCONUT FIBERS
AND RICE HUSK AS FILLERS**

Submitted By

Gattu Saveri (1602-20-732-030)

Saaye Shivaanie Bosetti (1602-20-732-033)

B. Mamatha (1602-20-732-306)

Under the Guidance of

Dr.B.Sridhar

Professor

Head of the Department

B.E. VIII Semester – Civil Engineering

2023-2024



Department of Civil Engineering

Vasavi College of Engineering (Autonomous)

(Affiliated to Osmania University)

Ibrahim Bagh, Hyderabad – 500031,

Telangana, India



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

CERTIFICATE

This is to certify that the Project work entitled **Evaluating the performance Bituminous Pavement using Coconut fibers and Rice husk ash** being submitted by Sri / Ms G. Saveri (3602-20-732-030) Saaye Shivaanie Bosetti (1602-20-732-033) B. Mamatha (1602- 20-732-306) 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. B. Sridhar
Project Guide
Dept. of Civil Engineering

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

A PROJECT REPORT ON
**STUDY OF DELAYS AND CONGESTION AT
BOTTLENECKS IN URBAN AREAS**

Project report submitted

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

Bachelor of Engineering

in

Civil Engineering

By

CH. Kamal Reddy (1602-20-732-011)

L. Siddhartha Reddy (1602-20-732-035)

S. Tushar Nagi Reddy (1602-20-732-046)

Under the guidance of

P. Dhatri

ASSISTANT PROFESSOR

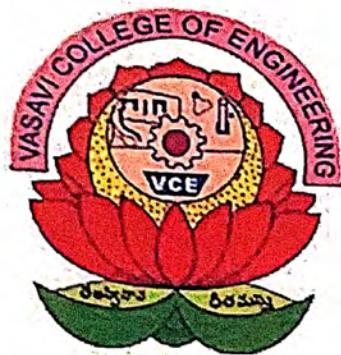


DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (Autonomous)

(Affiliated to Osmania University)

Ibrahim Bagh, Hyderabad



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
HYDERABAD

CERTIFICATE

This is to certify that the Major Project work entitled “Study of delays and congestions at bottleneck in urban areas “ is being submitted by CH. Kamal Reddy (1602-20-732-011), L. Siddhartha Reddy (1602-20-732-035), S. Tushar Nagi Reddy(1602-20-732-046)in partial full filling 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 my guidance and supervision during the academic year 2022-2023.

P. Dhatri

Project Guide
Dept. of Civil Engineering

Dr. B. SRIDHAR

Head of the Department
Dept. of Civil Engineering

ANALYSIS AND CHARACTERISTICS OF MUNICIPAL SOLID WASTE INCINERATION FLY ASH AND THERMAL POWER PLANT FLY ASH IN BITUMINOUS PAVEMENT.

Project report submitted

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

BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

by

Putakarapu Abhinaya (1602-20-732-002)

Juvva Krishna Priya (1602-20-732-012)

Dhondi Kobbani Vivek Chandra (1602-20-732-054)

Under the guidance of

MS.P. DHATRI (Assistant professor)



**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING(AUTONOMOUS)
IBRAHIMBAGH, HYDERABAD – 500031**



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

CERTIFICATE

This is to certify that the project work entitled "ANALYSIS AND CHARACTERISTICS AND STRENGTH OF MUNICIPAL SOLID WASTE INCINERATION FLY ASH AND THERMAL POWER PLANT FLY ASH IN BITUMINOUS PAVEMENTS" is being submitted by P.Abhinaya, J.Krishna Priya, Dk. Vivek Chandra in partial fulfillment for the award of Bachelor of Engineering in Civil Engineering Department, Vasavi College 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 during the academic year 2023-2024.

MS.P.DHATRI

PROJECT GUIDE

Dept. Of Civil Engineering

DR.B.SRIDHAR

HEAD OF DEPARTMENT

Dept.of Civil Engineering

04.05.2024

Optimization of bitumen mix using Sulphur as binder and coconut charcoal as filler

A

Project Report

*Submitted in partial fulfillment of the
Requirements for the award of the Degree of*

BACHELOR OF ENGINEERING

IN

CIVIL DEPARTMENT

By

Aarkha. Abhinav Chandra, 1602-20-732-001

K. Shravan Raj Goud, 1602-20-732-056

Thakur Vikram Singh, 1602-20-732-050

Under the guidance of

Dr. K. Jayasree

Associate Professor, Dept. of Civil Engineering



Department of Civil Engineering

Vasavi College of Engineering (Autonomous)

ACCREDITED BY NAAC WITH 'A++' GRADE (Affiliated to Osmania University)

Ibrahim Bagh, Hyderabad-31 2023

Vasavi College of Engineering (Autonomous)

ACCREDITED BY NAAC WITH 'A++' GRADE

(Affiliated to Osmania University)

Hyderabad-500 031

Department of Civil Engineering



BONAFIDE CERTIFICATE

This is to certify that the project entitled **Optimization of bitumen mix using Sulphur as binder and coconut charcoal as filler** being submitted by **Aarkha. Abhinav Chandra, Shravan Raj Goud and Thakur Vikram Singh** bearing **1602-20-732-001, 1602-20-732-056 and 1602-20-732-050** in partial fulfilment of the requirements for the award of the degree of Bachelor of Engineering in Civil is a record of Bonafide work carried out by them under my guide.

Dr. K. Jayasree

Associate Professor,

Dept. of Civil Engineering

Internal Guide

Dr. B. Sridhar

**Professor & HOD, Civil
Engineering**

External examiner

**STUDY OF STRENGTH CHARACTERISTICS OF
BLACK COTTON SOIL STABILIZED WITH FIXED
PERCENTAGES OF GGBS AT DIFFERENT WATER
CONTENTS**

Project report Submitted

in the partial fulfilment of the requirements for

the award of the degree of

Bachelor of Engineering in

Civil Engineering

By

Neha Sulthana (1602-20-732-040)

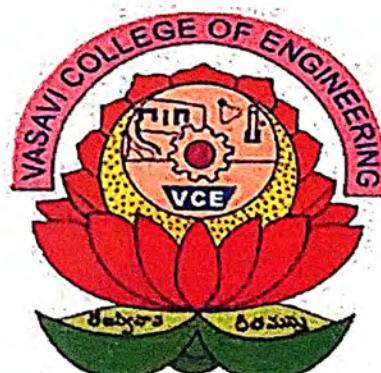
P. Swathi (1602-20-732-043)

S. Akhil (1602-20-732-047)

Under the guidance of

J. Chaitanya

Assistant Professor



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINRRING,

(AUTONOMOUS)

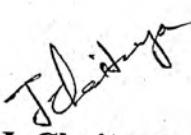
IBRAHIMBAGH, HYDERABAD – 500 031

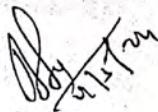


DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
HYDERABAD

CERTIFICATE

This is to certify that the Project work entitled **STUDY OF STRENGTH CHARACTERISTICS OF BLACK COTTON SOIL STABILIZED WITH FIXED PERCENTAGES OF GGBS AT DIFFERENT WATER CONTENTS** is being submitted by **SRI NEHASULTHANA, P. SWATHI, S. AKHIL** 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 Bonafede work carried out by him under our guidance.


J. Chaitanya
Project Guide
Dept. of Civil Engineering


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

STUDIES ON HYDRAULIC CONDUCTIVITY OF STABILIZED SOILS

Project report Submitted

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

**Bachelor of Engineering in
Civil Engineering**

By

UPPU SAMYUKTH	(1602-20-732-026)
BORA VISHALA REDDY	(1602-20-732-052)
MALLEGUDEM PAVAN KALYAN	(1602-20-732-307)

Under the guidance of

SRI.G. SRINIVAS

(Associate Professor)

MAY 2024



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING

(Autonomous, Affiliated to Osmania University)

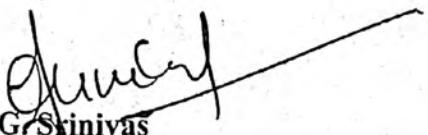
IBRAHIMBAGH, HYDERABD-500031



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

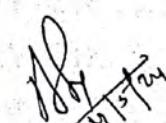
CERTIFICATE

This is to certify that the Project work entitled Studies on Hydraulic Conductivity of Stabilized soils is being submitted by Uppu Samyukth (1602-20-732-026), Bora Vishala Reddy (1602-20-732-052), Mallegudem Pavan Kalyan (1602-20-732-307) 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


Mr. G. Srinivas

Project Guide

Dept. of Civil Engineering



Dr. B. Sridhar

Head of the Department

Dept. of Civil Engineering

**MITIGATION OF WIND EROSION USING MICROBIALLY
INDUCED CALCITE PRECIPITATION INDUCED BY
SPOROSARCINA PASTEURII**

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. DELIGHT 1602-20-732-009

S. SIRISHA 1602-20-732-037

M. SRIMANASA 1602-20-732-055

Under the guidance of

Mr. S KESAV KUMAR ARNEPALLY

(Assistant Professor)

MAY 2024



**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING
(Autonomous)
IBRAHIMBAGH, HYDERABAD-500031**



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

CERTIFICATE

This is to certify that the project work entitled “**MITIGATION OF WIND EROSION USING MICROBIALLY INDUCED CALCITE PRECIPITATION INDUCED BY SPOROSARCINA PASTEURII**” is being submitted by **S. DELIGHT (1602-20-732-009)**, **Ms. S. SIRISHA (1602-20-732-037)**, **Ms. M. SRIMANASA (1602-20-732-055)**, 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 2023-2024

Mr. S KESAV KUMAR
 (Assistant Professor)
 Dept. of Civil Engineering

Dr. B. SRIDHAR
 (Head of the Department)
 Dept. of Civil Engineering

**Stabilization Of Black Cotton Soil by
Crumb Rubber And GGBS**

Project Report

Submitted

By

S.Deepak Rao (1602-19-732-010)

B.Saritha (1602-20-732-028)

A.Triveni (1602-20-732-045)

Under the guidance of

Sri. G.Srinivas (Associate professor)

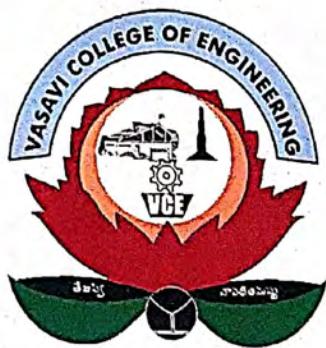


DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING,

(AUTONOMOUS)

IBRAHIMBAGH, HYDERABAD-500 031



DEPARTMENT OF CIVIL ENGINEERING

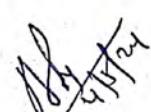
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

CERTIFICATE

This is to certify that the Major Project work “**Stabilization of Black Cotton Soil By Crumb Rubber And GGBS**” is being submitted by **S.Deepak Rao , B.Saritha and A.Triveni** done 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 during the academic year **2023-2024**.


Sri. C. Srinivas

Project Guide
Dept. of Civil Engineering


Dr. B. Sridhar

Head of Department
Dept. of Civil Engineering

1

Project report on

Stabilisation of Expansive Soils With Polypropylene Fibres

Project report Submitted
in the partial fulfilment of the requirements for the
award of the degree of
Bachelor of Engineering
in
Civil Engineering
By
Sai Suhas Reddy (1602-20-732-024)
Srividharika (1602-20-732-039)
Shiva Sai Kumar Goud (1602-20-732-034)

Under the Guidance of
J.Chaitanya
(Assistant Professor)



DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING (Autonomous)
(Affiliated to Osmania University)
Ibrahim Bagh, Hyderabad 500031
MAY 2024



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

HYDERABAD

CERTIFICATE

This is to certify that the Project work entitled **Stabilisation of Expansive Soils With Polypropylene Fibres** is being submitted by **Sai Suhas Reddy (1602-20-732-024)**, **Srividhika (1602-20-732-039)**, **Shiva Sai Kumar Goud (1602-20-732-034)** 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 my guidance and supervision during academic year 2023-2024.

J.Chaitanya,
Project Guide,
Assistant Professor,
Department Of Civil Engineering.

Dr.B.Sridhar,
Head Of The Department,
Professor,
Department Of Civil Engineering.

**UTILIZING BACILLUS MEGATERIUM-GENERATED
MICROBIAILY INDUCED CALCITE PRECIPITATION TO
MITIGATE WIND EROSION**

Project report submitted

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

Bachelor of Engineering

in

Civil Engineering

By

V. JYOTHIRMAI (1602-20-732-304)

S.K. AMEEN (1602-20-732-309)

K. YESHWANTH (1602-20-732-310)

Under the guidance of

S KESAV KUMAR ARNEPALLI

ASSISTANT PROFESSOR

MAY-2024



**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
IBRAHIM BAGH, HYDERABAD-5000 031**



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

CERTIFICATE

This is to certify that the project work entitled "**UTILIZING OF BACILLUS MEGATERIUM-GENERATED MICROBIALLY INDUCED CALCITE PRECIPITATION TO MITIGATE WIND EROSION**" is being submitted by

V. JYOTHIRMAI, SK. AMEEN, K. YESHWANTH 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 2023-24.


S. Kesav Kumar Arnepalli

Project Guide
Department of Civil Engineering


Dr. B. Sridhar

Head of the department
Department of Civil Engineering

**GROUNDWATER VULNERABILITY ASSESSMENT OF
HYDERABAD USING DRASTIC MODEL**

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 SINDHUJA (1602-20-732-302)

N VINAY (1602-20-732-305)

M VINAY (1602-20-732-308)

Under the guidance of

Ms. KRATI SHARMA (Assistant Professor)



**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
IBRAHIMBAGH, HYDERABAD-500031**



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

CERTIFICATE

This is to certify that the Project work entitled **Groundwater Vulnerability Assessment of Hyderabad using DRASTIC model** is being submitted by **P SINDHUJA, N VINAY, M VINAY** 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 him / her under our guidance during the academic year 2023-2024.


Ms. Krati Sharma

Guide
Dept. of Civil Engineering


Dr. B. Sridhar

Professor & Head
Dept. of Civil Engineering

ESTIMATION AND SCHEDULING OF A COMMERCIAL BUILDING

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

By

**CH ADARSH (1602-20-732-003)
J SHIVA KUMAR (1602-20-732-032)
HDV SWABHAV (1602-20-732-042)**

Under the guidance of
**Mrs R SOWMYA
ASSISTANT PROFESSOR**



**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING
(AUTONOMOUS)
IBRAHIMBAGH, HYDERABAD-500 031
MAY-2024**



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

CERTIFICATE

This is to certify that the project work entitled "**ESTIMATION AND SCHEDULING OF A COMMERCIAL BUILDING**" is being submitted by **CH ADARSH , J SHIVA KUMAR, HDV SWABHAV** 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 him/her under our guidance during the academic year **2023-2024**.

R.SK
 Mrs R.SOWMYA
 Project Guide
 Dept.of Civil Engineering

TG
 04.05.2024

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

**ENHANCEMENT OF WATER QUALITY USING
NATURAL COAGULANT IN IBRAHIM BAGH
LAKE'**

*Project report Submitted In the partial fulfillment
of the requirements for the " theme based project "*

**6thsemester,
Bachelor of
Engineering in
Civil Engineering**

By

KIRAN	(1602-21-732-021)
S T NIHAL	(1602-21-732-026)
SAI SAKETH	(1602-21-732-037)

Under the guidance of

Dr. Krati Sharma



MAY 2024

DEPARTMENT OF

CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING

(Autonomous) IBRAHIMBAGH, HYDERABD-500031



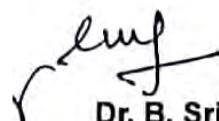
**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING
HYDERABAD**

CERTIFICATE

This is to certify that the Project work entitled studies on Enhancement of Water Quality Using Natural Coagulant in Ibrahim Bagh Lake is being submitted by Kiran (1602-21-732-021), S T Nihal (1602-21-732-026), Sai Saketh (1602-21-732-037) in partial fulfilment of Theme Based Project of 6th Semester in 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.


Krati Sharma,

Project Guide,
Assistant Professor,
Dept of Civil Engineering


Dr. B. Sridhar

Head of Department
Professor,
Dept of Civil Engineering

B-2

STUDIES ON RECYCLED CONCRETE AGGREGATES

*Project report Submitted In the partial fulfilment of the
requirements for the " theme based project "*

6th semester ,Bachelor of

Engineering in Civil

Engineering

By

INDRANIL BADALWAR	(1602-21-732-007)
SHAIK ZAID	(1602-21-732-301)
UDAY KIRAN	(1602-21-732-304)

Under the guidance of

Dr. C. Mohan Lal

MAY 2024

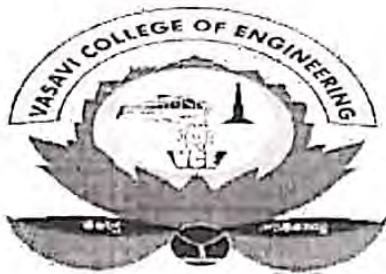


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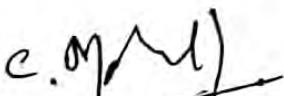
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VASAVI COLLEGE OF ENGINEERING
HYDERABAD**

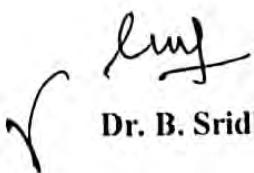
CERTIFICATE

This is to certify that the Project work entitled Studies on recycled concrete aggregates is being submitted by Indranil badalwar (1602-21-732-007), Shaik zaid (1602-21-732-301), Uday kiran (1602-21-732-304) in partial fulfillment for theme based project of 6th semester in 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


Dr. C. Mohan Lal

Project Guide

Dept. of Civil Engineering


Dr. B. Sridhar

Head of the Department

Dept. of Civil Engineering

U C

Theme Based Project report
On
Expansive Soil Stabilization with Lime, Fly Ash and
Polypropylene Fiber for Flexible Pavement Subgrade

KOUSHIK AITHA

1602-21-732-022

NISHANTH KOTTE

1602-21-732-027

SANDEEP KURVA

1602-21-732-040

Under the guidance of

Mr. G. Srinivas

Associate Professor



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

**AFFILIATED TO OSMANIA UNIVERSITY
HYDERABAD**

May 2024

THEME BASED PROJECT REPORT ON
Expansive Soil Stabilization with Lime, Fly Ash and
Polypropylene Fiber for Flexible Pavement Subgrade

Submitted by:

KOUSHIK AITHA	1602-21-732-022
NISHANTH KOTTE	1602-21-732-027
SANDEEPEE KURVA	1602-21-732-040

Under the guidance of
Mr. G. Srinivas
Associate Professor



DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
AFFILIATED TO OSMANIA UNIVERSITY
HYDERABAD

May 2024

B-4

CLIMATE FORECASTING AND ANALYSIS OF HYDERABAD

Project report Submitted

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

**Bachelor of Engineering in
Civil Engineering**

By

DIMPLE CHOWDARY (1602-21-732-015)
SNEHALI SRIGADHI (1602-21-732-048)
SAI NIKITHA LINGAMPALLY (1602-21-732-036)

Under the guidance of

SRI.B.JAGADEESH

(Assistant Professor)

JUNE 2024



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



**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING
HYDERABAD
IBRAHIMBAGH, HYDERABD-500031**

CERTIFICATE

This is to certify that the Project work entitled Studies on Climate forecasting and analysis of Hyderabad is being submitted by Dimple Chowdary(1602-21-732-015), Sai Nikitha Lingampally(1602-21-732-036), Snehal Srividhi(1602-21-732-048) 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.

Mr. B. Jagadeesh

**Project Guide
Dept. of civil engineering**

luy

Dr. B. Sridhar

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

**COMPARATIVE STUDY BETWEEN BITUMEN MIX
AND
PLASTIC ADDED BITUMEN MIX**

Theme based project

Submitted by

M.DEEKSHITHA VARDHINI (1602-21-732-013)

A.SONIYA REDDY (1602-21-732-049)

Y.SWAPNA RANI (1602-21-732-054)

UNDER THE GUIDANCE OF

P.DHATRI

(Assistant professor)



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

IBRAHIMBAGH, HYDERABAD -500031



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

HYDERABAD

CERTIFICATE

This is to certify that the Theme Based Project work entitled

COMPARATIVE STUDY BETWEEN BITUMEN MIX AND PLASTIC ADDED BITUMEN MIX is being submitted by M. Deekshitha Vardhini (1602-21-732-013) A. Soniya Reddy(1602-21-732-049)Y. Swapna Rrani (1602-21-732-054)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.

P. Dhatri

Project Guide

Dept. of Civil Engineering

Dr. B. Sridhar

Professor & Head

Dept. of Civil Engineering

**Theme Based Project report
On
Optimal Locations of Electric Vehicle
Charging Stations**

**Siddanth Gunda
1602-21-732-045**

**Y. Teja Rishith Reddy
1602-21-732-055**

**Tunvi Reddy Dasari
1602-21-732-057**

Under the guidance of

**Dr. K. Jayasree
Associate Professor**



**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
AFFILIATED TO OSMANIA UNIVERSITY
HYDERABAD
May 2024**



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

CERTIFICATE

This is to certify that the Theme Based Project work entitled "Optimal locations of electric vehicle charging stations" is being submitted by Mr. Siddanth Gunda, Mr. Y. Teja Rishith Reddy and Ms. Tunvi Reddy Dasari done in the 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. Jayasree
Project Guide
Dept. of Civil Engineering**

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

B-+

THEME BASED PROJECT REPORT ON

WIND ANALYSIS OF A G+10 BUILDING

Submitted by:

GANNE ANANYA 1602-21-732-004

BANOTH VIJAY 1602-21-732-059

SARIKONDA MANOHAR RAJU 1602-21-732-024

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
HYDERABAD

MAY 2024

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

AFFILIATED TO OSMANIA UNIVERSITY

IBRAHIMBAGH, HYDERABAD

CERTIFICATE

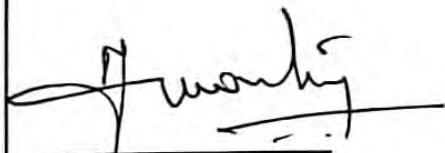
This is to certify that the Theme based project report entitled "Wind Analysis of a G+10 Building" is a bonafide record of a Theme based project work carried out by

GANNE ANANYA-----1602-21-732-004

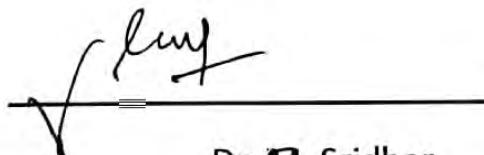
BANOTH VIJAY----- 1602-21-732-059

SARIKONDA MANOHAR RAJU----- 1602-21-732-024

in the Department of Civil Engineering, Vasavi College of Engineering (Autonomous) (Affiliated to Osmania University), Hyderabad during the academic year 2023-24.



Dr. M.V.S.S. SASTRI
Project Guide



Dr. M. Sridhar
Professor & HOD
Dept. of Civil Engg.



THEME BASED PROJECT REPORT

STUDY OF GEOSYNTHETIC
REINFORCED SOIL

BY:

R.KEERTHANA JASMIN 1602-21-732-020

B.SWARNA 1602-21-732-053

M.THIRUMAILESH 1602-21-732-056



UNDER THE GUIDANCE OF
MR.J.CHIATANYA
ASSISTANT PROFESSOR
DEPART OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING

Certificate:



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

HYDERABAD

CERTIFICATE

This is to certify that the Theme Based Project work entitled "study of geosynthetic soil" is being submitted by R.Keerthana,B.Swarna,M.Thirumalesh 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.

MR.J. Chaitanya
Assistant professor
Project Guide
Dept. of Civil Engineering

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

DSIGN OF CANTILEVER RETAINING WALL

Theme Based Project report submitted

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

BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

by

Thonti Ajay (1602-21-732-002)

Dharamsoth Indu (1602-21-732-017)

Nalla Abhitha (1602-21-732-302)

Under the guidance of

Mr. G. Raghavendra (Associate professor)



**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF
ENGINEERING(AUTONOMOUS)
IBRAHIMBAGH, HYDERABAD – 500031**



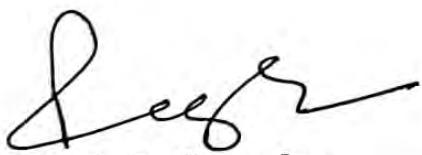
DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

HYDERABAD

CERTIFICATE

This is to certify that the Theme Based Project work entitled “DESIGN OF CANTILEVER RETAINING WALL” is being submitted by Ajay(1602-21-732-002), Indu(1602-21-732-017), Nalla Abhitha(1602-21-732-302) done 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.



Mr. G. Raghavendra

PROJECT GUIDE

Dept. of Civil Engineering



Dr. B. Sridhar

HEAD OF DEPARTMENT

Dept. of Civil Engineering

MODELING OF TRIPLE BLENDED FIBRE REINFORCED CONCRETE IN FLEXURE AND TENSION

Theme Based Project Report Submitted
by

Kowtharapu. Aravind Kumar (1602-21-732-005)

Kasivojjula. Prasanna (1602-21-732-029)

Ankam Sindhuja (1602-21-732-303)

Under the guidance of
Dr. M. V. Rama Rao

Professor



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

IBRAHIMBAGH, HYDERABAD – 500031



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS) HYDERABAD

CERTIFICATE

This is to certify that the Theme Based Project work entitled “MODELING OF TRIPLE BLENDED FIBRE REINFORCED CONCRETE IN FLEXURE AND TENSION” is being submitted by Kowtharapu. Aravind Kumar(1602-21-732-005), Kasivojjula. Prasanna(1602-21-732-029), Ankam Sindhuja (1602-21-732-303), done 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 during the academic year 2024-2025.



DR. M. V. RAMA RAO

PROJECT GUIDE
Dept. Of Civil Engineering



DR. B. SRIDHAR

HEAD OF DEPARTMENT
Dept. Of Civil Engineering

THEME BASED PROJECT REPORT
DESIGN OF RCC COMPONENTS AND STEEL CONNECTIONS (LSD)
USING MICROSOFT EXCEL

Submitted By:

Bharath Kumar Gaddameedhi 1602-21-732-009
Chinmayi Nalajala 1602-21-732-011
Thippareddy Sai Krishna Reddy 1602-21-732-039

Under The Guidance of:

DR CHOWDARY MOHANLAL
(Associate Professor)



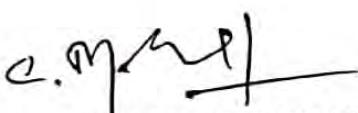
DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
IN AFFILIATION WITH OSMANIA UNIVERSITY
IBRAHIMBAGH, HYDERABAD - 500031

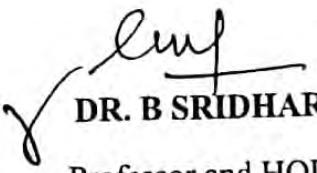


**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
HYDERABAD**

CERTIFICATE

This is to certify that the Theme Based Project work entitled "DESIGN OF RCC COMPONENTS AND STEEL CONNECTIONS USING MICROSOFT EXCEL" is being submitted by **Sri Gaddameedhi Bharath Kumar, Ms Chinmayi Nalajala and Sri Thippareddy Sai Krishna Reddy**, 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.


DR CHOWDARY MOHANLAL
Project Guide
Department of Civil Engineering


DR. B SRIDHAR
Professor and HOD
Department of Civil Engineering

INFLUENCE OF MINERAL ADMIXTURES AND ROBO SAND ON FRESH AND HARDENED PROPERTIES OF CONCRETE

Project report submitted

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

**BACHELOR OF ENGINEERING
IN CIVIL ENGINEERING**

by

Pabboju Sai Krishna (1602-21-732-035)

Gunti Sravanthi (1602-21-732-050)

Doosa Sadhguna (1602-21-732-308)

Under the guidance of

Dr. S. VIJAYA KUMAR (Associate Professor)



DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
IBRAHIMBAGH, HYDERABAD -500031



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

CERTIFICATE

This is to certify that the project work entitled "INFLUENCE OF MINERAL ADMIXTURES AND ROBO SAND ON FRESH AND HARDENED PROPERTIES OF CONCRETE" is being submitted by P. Sai Krishna, G. Sravanthi, D. Sadhguna 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 during the academic year 2023-2024.

Dr. S. Vijaya Kumar
6.6.24

DRS. VIJAYA KUMAR

PROJECT GUIDE

Dept. of Civil Engineering

DR. B. Sridhar
6.6.24

DR. B. SRIDHAR

HEAD OF DEPARTMENT

Dept. of Civil Engineering

15-15

OPTIMIZING CONCRETE STRENGTH :

BLENDING AGGREGATES FOR HIGH COMPRESSIVE STRENGTH

Project report submitted in the partial fulfillment of the requirements for the "theme based project"

6th SEM ,B.E. CIVIL ENGINEERING

PRESENTED BY:

K.BADHU (1602-21-732-008)

ABDUL JUNAID (1602-21-732-306)

S.SRI VARDHAN (1602-20-732-038)

Under the guidance :

R.SOWMYA



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING(AUTONOMOUS)

IBRAHIMBAGH, HYDERABAD-500031



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING, HYDERABAD

CERTIFICATE

This is to certify that the project work entitled Studies on "OPTIMIZING CONCRETE STRENGTH: BLENDING AGGREGATES FOR HIGH COMPRESSIVE STRENGTH" is being submitted by K. Badhu (1602-21-732-008), Abdul Junaid (1602-21-732-306), S. Sri Vardhan (1602-20-732-038) in partial fulfillment for theme based project of 6th semester in 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

R.SOWMYA

PROJECT GUIDE

Dept. of Civil Engineering

Dr. B. Sridhar

Head of the Department

Dept. of Civil Engineering

FIBER REINFORCED RECYCLED AGGREGATE CONCRETE MIX DESIGN

Theme base Project report submitted

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

BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

by

KARANGI SAILAXMI (1602-21-732-305)

VAKITHI SHIVA (1602-21-732-309)

KALYAN NAYAK (1602-21-732-019)

Under the guidance of

DR.M.V.S.S.SASTRI(Assistant professor)



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IBRAHIMBAGH, HYDERABAD – 500031**



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HYDERABAD**

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This is to certify that the Theme Based project work entitled “FIBER REINFORCED RECYCLED AGGREGATE CONCRETE MIX DESIGN” is being submitted by K. Sailaxmi, V. Shiva, Kalyan 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 by them under our guidance during the academic year 2023-2024.

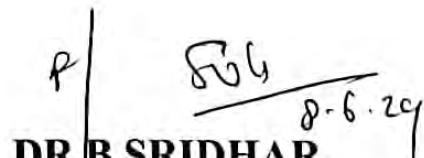


8-6-24

DR. M. V. S. S. SASTRI

PROJECT GUIDE

Dept. Of Civil Engineering



8-6-24

DR. B. SRIDHAR

HEAD OF DEPARTMENT

Dept. of Civil Engineering

Theme Based Project report
On
EXPERIMENTAL STUDY ON EVAPORATION
REDUCTION BY USE OF MONOMOLECULAR
LAYERS AND FLOATING ROOFS

U. Deekshith

1602-21-732-012

A. Dharani

1602-21-732-014

J. Shirisha

1602-21-732-042

M. Veda

1602-21-732-058

Under the guidance of

Mr. B. JAGADEESH

Assistant Professor

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
AFFILIATED TO OSMANIA UNIVERSITY
IBRAHIMBAGH, HYDERABAD

CERTIFICATE

This is to certify that the Theme based project report entitled
**"EXPERIMENTAL STUDY ON EVAPORATION REDUCTION BY USE OF
MONOMOLECULAR LAYERS AND FLOATING ROOFS "** is a bonafide record
of a Theme based project work carried out by

U. Deekshith--- 1602-21-732-012
A. Dharani --- 1602-21-732-014
J. Shirisha --- 1602-21-732-042
M. Veda --- 1602-21-732-058

in the Department of Civil Engineering, Vasavi College of Engineering
(Autonomous) (Affiliated to Osmania University), Hyderabad during the
academic year 2023-24.


Mr. B. Jagadeesh
Dept. of Civil Engg.


Dr. B. Sridhar
Professor & HOD

B-16

IN-VESSEL COMPOSTING

Project report submitted

by

Lamiya Tabassum (1602-21-732-023)

Sreeja Marri (1602-21-732-051)

Sujatha (1602-21-732-052)

Naga Harshitha(1602-21-732-307)

Under the guidance of

MS.krati Sharma (Assistant professor)



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VASAVI COLLEGE OF ENGINEERING(AUTONOMOUS)

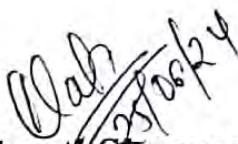
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HYDERABAD**

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This is to certify that the Theme Based Project work entitled “IN-VESSEL COMPOSTING” is being submitted by Ms Lamiya Tabassum, Sreeja Marri, P.sujatha, Naga Harshitha done in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500 031 is a record of bonafide work carried out by her under our guidance.


MS.krati Sharma

Project Guide

Dept. Of Civil Engineering
Engineering


DR.B.Sridhar
Professor & Head

Dept. of Civil

STUDY OF WORKING PRINCIPLE OF SEWAGE TREATMENT PLANT

Project report Submitted In the partial fulfilment of the requirements for the " theme based project "

**6th semester ,Bachelor of
Engineering in Civil
Engineering**

By

M.RAJASHEKAR	1602-21-732-032
GOVIND KARVA	1602-21-732-016
SHIVA PRATHIK	1602-21-732-044

Under the guidance of

Dr. S. VIJAY KUMAR

MAY 2024



DEPARTMENT OF CIVIL ENGINEERING

VASAVI COLLEGE OF ENGINEERING

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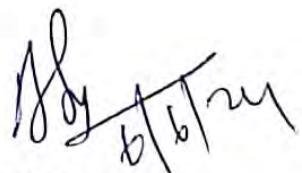
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plant is being submitted by M. Rajashekhar (1602-21-732-032), Govind karva (1602-21-732-016), Shiva prathik (1602-21-732-044) in partial fulfillment for theme based project of 6th semester in Bachelor of Engineering in Civil Engineering. This is to certify that the Project work entitled Studies on Study of working principle of sewage treatment Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad 500031 is a record of bonafide work carried out by them under our guidance


Dr. S. Vijay Kumar
 6.6.21

Project guide

Dept. of Civil Engineering


Dr. B. Sridhar

Head of the Department

Dept. of Civil Engineering

B-1

Theme Based Project report
On
Quantification of erosion potential through non destructive
volumetric measurements'

Ramavath Sindhu
1602-21-732-047

Angoth Jagadeesh
1602-21-732-018

Dhanavath Phani Kumar
1602-21-732-028

Under the guidance of

Mr.S. Keshav Kumar
Assistant Professor



4

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VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
AFFILIATED TO OSMANIA UNIVERSITY
HYDERABAD

May 2024



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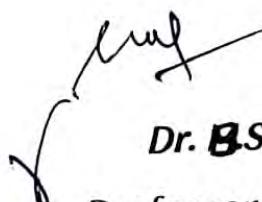
CERTIFICATE

This is to certify that the Theme based project report entitled
"Quantification of erosion potential through non destructive
volumetric measurements" is a bonafide record of a Theme based
project work carried out by

R.Sindhu	1602-21-732-047
A.Jagadeesh	1602-21-732-018
D.Phani kumar	1602-21-732-028

in the Department of Civil Engineering, Vasavi College of Engineering
(Autonomous) (Affiliated to Osmania University), Hyderabad during
the academic year 2023-24.


Mr.Keshav kumar
Project Guide


Dr. B. Sridhar
Professor & HOD
Dept. of Civil Engg.

DESIGN OF BITUMINOUS MIX WITH PARTIAL REPLACEMENT OF AGGREGATES USING WOODEN CHARCOAL IN BITUMINOUS PAVEMENT

Project report submitted

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

✓

BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

by

BHARATH MALOTH (1602-20-732-010)

SAI HARSHITH REDDY NARALA (1602-20-732-025)

SIDDARTH DOOSA (1602-20-732-046)

Under the guidance of

DR.K.JAYASREE (Associate professor)



**DEPARTMENT OF CIVIL ENGINEERING
VASAVI COLLEGE OF ENGINEERING(AUTONOMOUS)
IBRAHIMBAGH, HYDERABAD – 500031**



**DEPARTMENT OF CIVIL ENGINEERING
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HYDERABAD**

CERTIFICATE

This is to certify that the project work entitled "**DESIGN OF BITUMINOUS MIX WITH PARTIAL REPLACEMENT OF AGGREGATES USING WOODEN CHARCOAL IN BITUMINOUS PAVEMENT**" is being submitted by Bharath Maloth, Sai Harshith Reddy Narala, Siddarth Doosa done in Civil Engineering Department, Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad, 500031 is a record of bonafide work carried by them under our guidance during the academic year **2023-2024**.

DR.K.JAYASREE
PROJECT GUIDE
Dept. of Civil Engineering

DR.B.SRIDHAR
HEAD OF DEPARTMENT
Dept. of Civil Engineering

VASAVI COLLEGE OF ENGINEERING (A)
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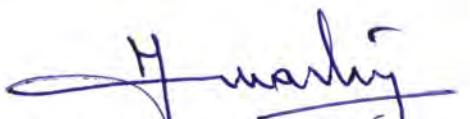
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CERTIFICATE

*This is to certify that Mr. / Ms. B. ABHITETI REDDY Roll No. 1602-22-732-001
had successfully completed the assigned work on collecting data from the field in
Surveying Camp during from **15.07.2024 to 20.07.2024** in the academic year 2023-24
organized by the Department of Civil Engineering, Vasavi College of Engineering (A),
Hyderabad - 500 031.*


Surveying Camp
Coordinator


H.O.D.(Civil)

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DEPARTMENT OF CIVIL ENGINEERING

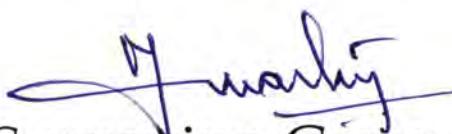
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*This is to certify that Mr. / Ms. A. AKHIL Roll No. 1602-22-732-002 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **15.07.2024 to 20.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*


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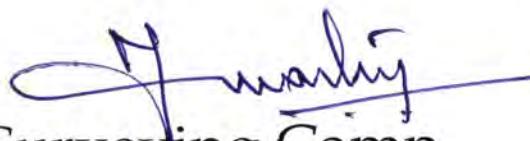
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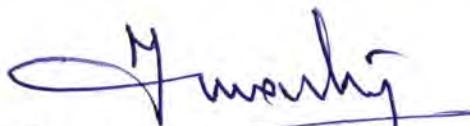
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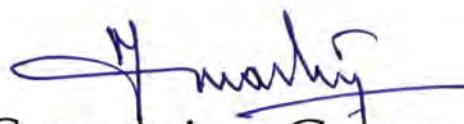
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H.O.D. (Civil)

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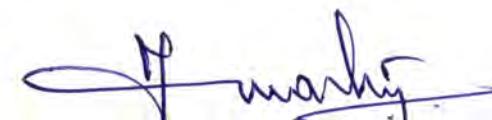
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*This is to certify that Mr. / Ms. G. KARTHIK KUMAR, Roll No. 1602-22-732-013 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **15.07.2024 to 20.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*


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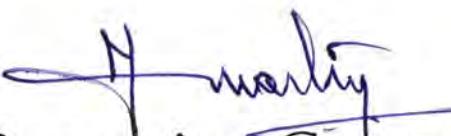
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*This is to certify that Mr. / Ms. K. KAMMARI KARTHIKA Roll No. 1602-22-732-014
CHARY
had successfully completed the assigned work on collecting data from the field in
Surveying Camp during from 15.07.2024 to 20.07.2024 in the academic year 2023-24
organized by the Department of Civil Engineering, Vasavi College of Engineering (A),
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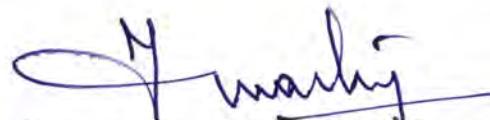
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H.O.D.(Civil)

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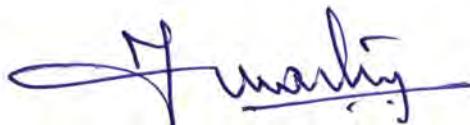
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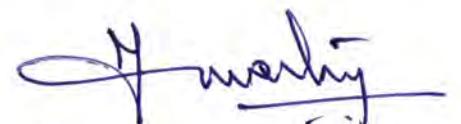
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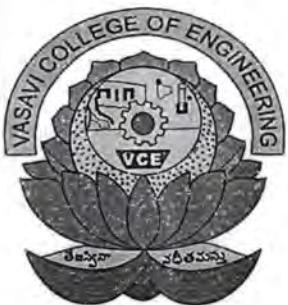

Surveying Camp
Coordinator


H.O.D.(Civil)

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had successfully completed the assigned work on collecting data from the field in
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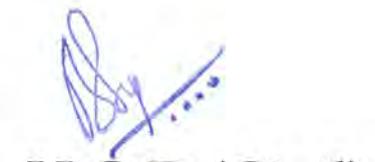
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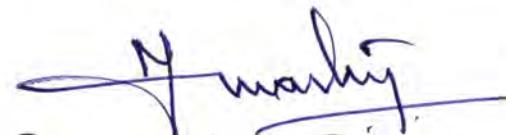
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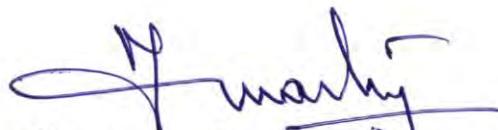
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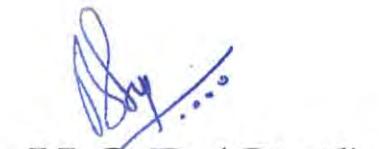
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*This is to certify that Mr. / Ms. M. VINAY KUMAR Roll No. 1602-22-732-039 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **15.07.2024 to 20.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*


Surveying Camp
Coordinator


H.O.D.(Civil)

VASAVI COLLEGE OF ENGINEERING (A)
DEPARTMENT OF CIVIL ENGINEERING

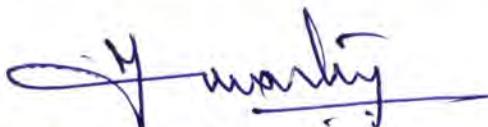
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CERTIFICATE

*This is to certify that Mr. / Ms. B. VARUN Roll No. 1602-22-732-309 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **15.07.2024 to 20.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*


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CERTIFICATE

*This is to certify that Mr. / Ms. G. LAVANYA Roll No. 1602-22-732-311 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **15.07.2024 to 20.07.2024** in the academic year 2023-24 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. B. ANOOSHA Roll No. 1602-22-732-003 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **22.07.2024 to 27.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*


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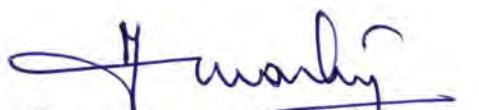
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CERTIFICATE

*This is to certify that Mr. / Ms. B. DINESH KUMAR Roll No. 1602-22-732-007 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **22.07.2024 to 27.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*

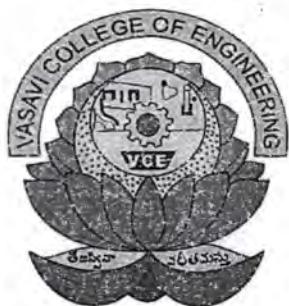

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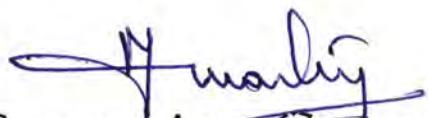
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*This is to certify that Mr. / Ms. G. HARIRA Roll No. 1602-22-732-008 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **22.07.2024 to 27.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*


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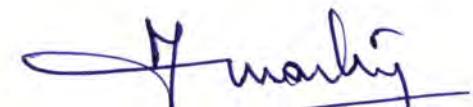
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CERTIFICATE

*This is to certify that Mr. / Ms. J. JAIHINDYADAV Roll No. 1602-22-732-010 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **22.07.2024 to 27.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*

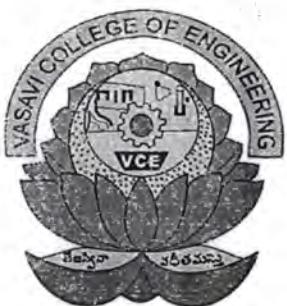

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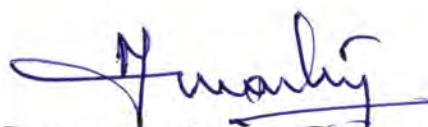
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CERTIFICATE

*This is to certify that Mr. / Ms. T. MAHESH GOUD Roll No. 1602-22-732-017
had successfully completed the assigned work on collecting data from the field in
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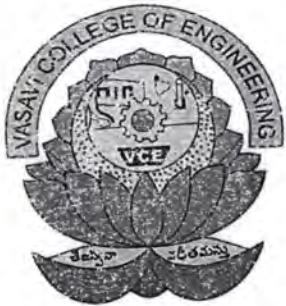

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This is to certify that Mr. / Ms. A. MANISHA Roll No. 1602-22-732-019
had successfully completed the assigned work on collecting data from the field in
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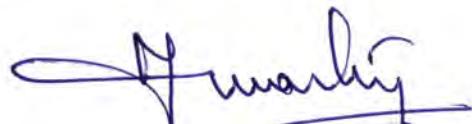
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This is to certify that Mr. / Ms. P.MANDHAR Roll No. 1602-22-732-020 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 22.07.2024 to 27.07.2024 in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.


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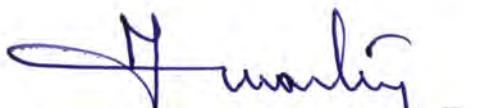
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CERTIFICATE

This is to certify that Mr. / Ms. M. RAKSHITHA Roll No. 1602-22-732-026 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 22.07.2024 to 27.07.2024 in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.


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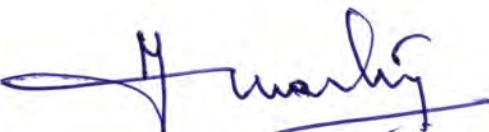
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CERTIFICATE

This is to certify that Mr. / Ms. T SAIDESWARA RAO Roll No. 1602-22-732-029 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 22.07.2024 to 27.07.2024 in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.

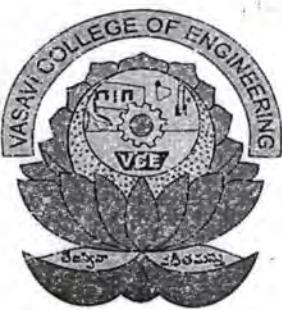

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*This is to certify that Mr. / Ms. SK. MEHEDI ALIYA Roll No. 1602-22-732-030
had successfully completed the assigned work on collecting data from the field in
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This is to certify that Mr. / Ms. D. TEJASWINI Roll No. 1602-22-732-034 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **22.07.2024 to 27.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.


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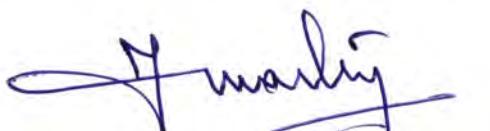
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This is to certify that Mr. / Ms. S. VAMSHI Roll No. 1602-22-732-037 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 22.07.2024 to 27.07.2024 in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.

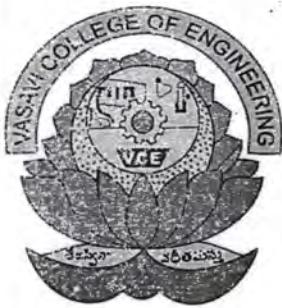

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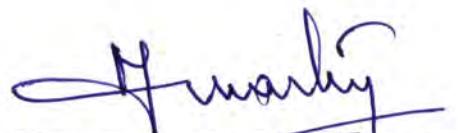
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CERTIFICATE

*This is to certify that Mr. / Ms. CH. LAVANYA Roll No. 1602-22-732-301 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **22.07.2024** to **27.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*

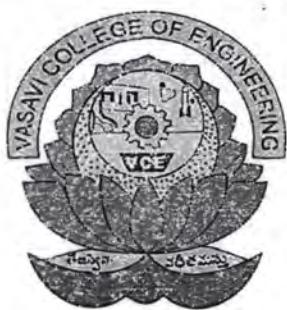

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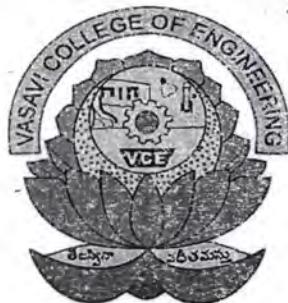


CERTIFICATE

*This is to certify that Mr. / Ms. A. SUTATHA Roll No. 1602-22-732-302 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **22.07.2024 to 27.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*

H. M. Anil Kumar
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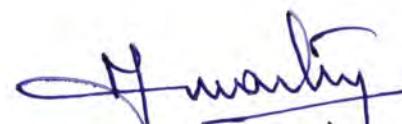
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CERTIFICATE

This is to certify that Mr. / Ms. K. REERTHANA Roll No. 1602-22-732-303 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 22.07.2024 to 27.07.2024 in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.

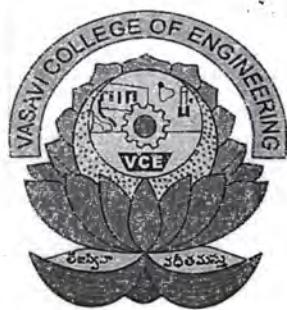

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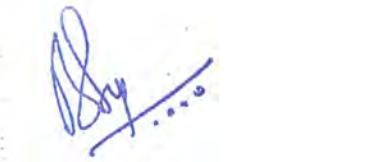
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CERTIFICATE

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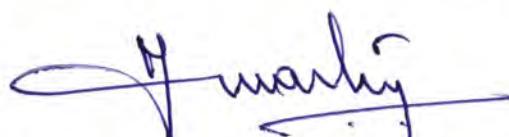
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*This is to certify that Mr. / Ms. MD FARHAN UZZAMAN Roll No. 1602-22-732-305 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **22.07.2024 to 27.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*


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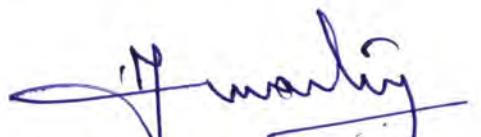
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had successfully completed the assigned work on collecting data from the field in
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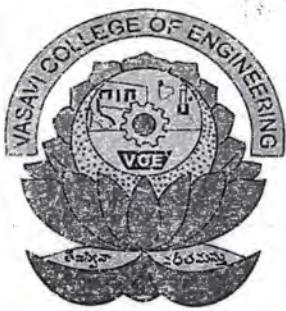

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*This is to certify that Mr. / Ms. MD.M. AULICHAN Roll No. 1602-22-732-307 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **22.07.2024 to 27.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*


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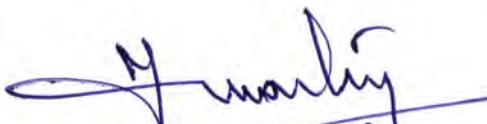
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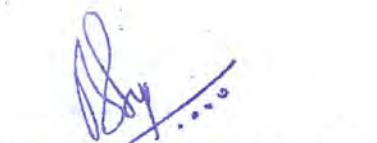
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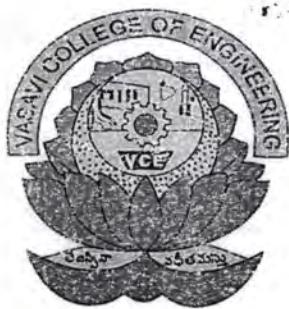
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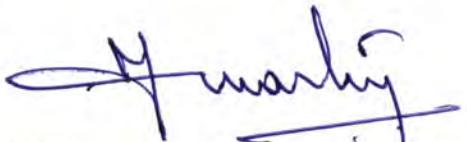
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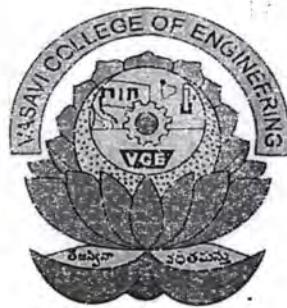
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CERTIFICATE

This is to certify that Mr. / Ms. MD JUNAID HUSSAIN Roll No. 1602-22-732-310 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 22.07.2024 to 27.07.2024 in the academic year 2023-24 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. D.VILCRAH RATHOD Roll No. 1602-22-732-313 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 22.07.2024 to 27.07.2024 in the academic year 2023-24 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. P. KISHOR Roll No. 1602-22-732-314 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 22.07.2024 to 27.07.2024 in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.

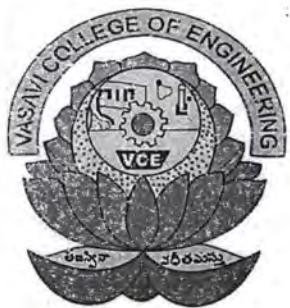

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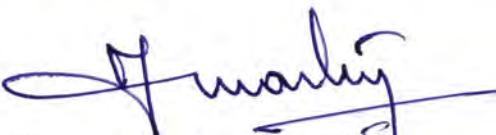
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This is to certify that Mr. / Ms. K.CHANDANASRI Roll No. 1602-22-732-315 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 22.07.2024 to 27.07.2024 in the academic year 2023-24, organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.


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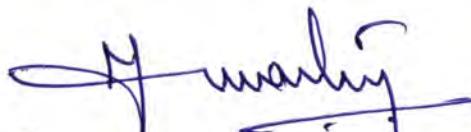
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CERTIFICATE

This is to certify that Mr. / Ms. J. Gorul YADAV Roll No. 1602-22-732-316 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 22.07.2024 to 27.07.2024 in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.

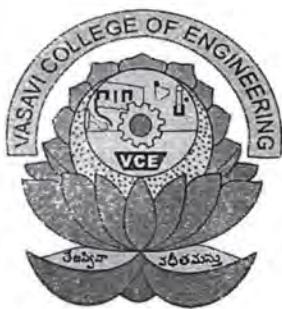

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*This is to certify that Mr. / Ms. A. ABHISHEK Roll No. 1602-21732-001 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **15.07.2024 to 20.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*


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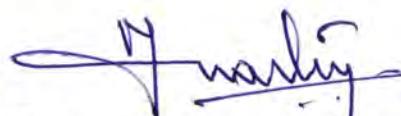
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CERTIFICATE

*This is to certify that Mr. / Ms. SK · ARMINA Roll No. 1602-22-732-006
had successfully completed the assigned work on collecting data from the field in
Surveying Camp during from **15.07.2024 to 20.07.2024** in the academic year 2023-24
organized by the Department of Civil Engineering, Vasavi College of Engineering (A),
Hyderabad - 500 031.*


Surveying Camp
Coordinator


H.O.D.(Civil)

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CERTIFICATE

This is to certify that Mr. / Ms. A PRATHIK KUMAR Roll No. 1602-22-732-030 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 15.07.2024 to 20.07.2024 in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.

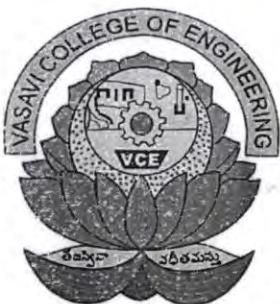

Surveying Camp
Coordinator


H.O.D.(Civil)

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CERTIFICATE

This is to certify that Mr. / Ms. K. RAGHAVENDRA Roll No. 1602-21-732-031 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from 15.07.2024 to 20.07.2024 in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.



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Coordinator



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CERTIFICATE

*This is to certify that Mr. / Ms. B. SHASHANTH Roll No. 1602-22-732-041 had successfully completed the assigned work on collecting data from the field in Surveying Camp during from **15.07.2024 to 20.07.2024** in the academic year 2023-24 organized by the Department of Civil Engineering, Vasavi College of Engineering (A), Hyderabad - 500 031.*


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CERTIFICATE

*This is to certify that Mr. / Ms. Y. SHIVA NARAYANA Roll No. 1602-21-732-043
had successfully completed the assigned work on collecting data from the field in
Surveying Camp during from 15.07.2024 to 20.07.2024 in the academic year 2023-24
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Surveying Camp
Coordinator


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