

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018**



2024-2025

**DESIGN OF THE DECENTRALIZED WASTE WATER TREATMENT
SYSTEMS (DEWATS) FOR NEW HORIZON COLLEGE OF ENGINEERING
CAMPUS AS A FUTURE FORECASTING (2030)**

**A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT FOR THE
7TH SEMESTER**

BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

Submitted by

ANU RANGANATH S R

1NH21CV008

BHAVANA M REDDY

1NH21CV013

KANISHKA S NAYAK

1NH21CV025

SAHANA K

1NH21CV058

UNDER THE GUIDANCE OF

MS. SWETTI JHA

HOD-INCHARGE & SENIOR ASSISTANT PROFESSOR

DEPARTMENT OF CIVIL ENGINEERING



DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATION

It is hereby certified that the project work entitled- “**DESIGN OF THE DECENTRALIZED WASTE WATER TREATMENT SYSTEMS (DEWATS) FOR NEW HORIZON COLLEGE OF ENGINEERING CAMPUS AS A FUTURE FORECASTING (2030)**” carried out by **Ms. ANU RANGANATH S R (1NH21CV008)**, **Ms. BHAVANA M REDDY (1NH21CV013)**, **Mr. KANISHKA S NAYAK(1NH21CV025)** **Ms. SAHANA K (1NH21CV058)**, a bonafide students of New Horizon college of engineering in partial fulfilment of the award of Bachelor of Engineering in Civil Engineering of the Visveswaraya Technological University, Belgaum during year 2024-2025. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report.

The project work has been approved as it satisfies the academic requirements in respect of project work of 7th Semester prescribed for the said Degree.

PROJECT
COORDINATOR
MS. SWETTI JHA

HOD-INCHARGE
Dept. of Civil Eng
MS. SWETTI JHA

EXTERNAL EXAMINERS:

Name of the examiners

Signature with date

1. _____

2. _____



ACKNOWLEDGEMENT

We express our sincere thanks to **Dr. MOHAN MANGHNANI**, Chairman of [New Horizon college of Engineering](#) for providing necessary infrastructure and creating good environment.

We would express our great thanks to **Dr. MANJUNATHA**, Principal of [New Horizon College of Engineering](#), for granting us permission to undertake the VTU prescribed project.

We express our deep sense of gratitude and thanks to the Head of the department of Civil engineering department **Ms. SWETTI JHA**, HOD-INCHARGE & Senior assistant professor, for providing necessary facilities and encouraging us to make this project grand success.

We sincerely acknowledge the encouragement, timely help and guidance of **Ms. SWETTI JHA**, HOD-INCHAGRE & Senior assistant professor, Civil Department.

We deeply express our gratitude to the lab instructor **Mr. SANJEEV** for being a great support in performing our lab tests.

With a great pleasure we wish to express our deep sense of gratitude and profound thanks to staff members of the Department of Civil Engineering. Their valuable guidance in project work helped us to complete the project within time.

Finally, we express our sincere thanks to everyone who as kindly co-operated and helped for the successful completion of the project.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

BELAGAVI-590018



2024-2025

**“PARTIAL REPLACEMENT OF COARSE AGGREGATES BY
PLASTIC AGGREGATES”**

**A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENT 7th SEMESTER FOR THE AWARD OF DEGREE**

DEPARTMENT OF CIVIL ENGINEERING

USN

1NH21CV001
1NH21CV048
1NH21CV074
1NH21CV067

NAME

ABHAY. N
P. SRUJAN
VIKAS .K M
SUHAS. S

UNDER THE GUIDANCE OF

Mr. CHANNABASAVA

Assistant Professor

ACADEMIC YEAR ; 2024 - 2025



ACKNOWLEDGEMENT

We would express our great thanks to **Dr. MANJUNATHA**, Principal of **New Horizon College of Engineering**, for granting us permission to undertake the VTU prescribed project.

We express our deep sense of gratitude and thanks to Head of **Civil Engineering Department**, **Ms. SWETTI JHA**, for providing necessary facilities and encouraging us to make this project grand success.

We sincerely acknowledge the encouragement, timely help and guidance of **Mr.CHANNABASAVA Assistant Professor**, Department of civil engineering.

We felt with a great pleasure to express our deep of gratitude and profound thanks to **staff members of the Department of Civil Engineering**. Their valuable guidance in both field and office work helped us to complete the project within the prescribed time.

NHCE



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Awarded Outstanding Technical Education Institute in Karnataka -2016

Outer Ring Road, Near Marathahalli, Bengaluru-560103.

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

Certified that the project work entitled “ **PARTIAL REPLACEMENT OF COARSE AGGREGATES BY PLASTIC AGGREGATES**” Work, carried out by **VIKAS K M** bearing USN **1NH21CV074** a bonafide students of seven semester in partial fulfillment for the award Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2024-2025. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been certified as it satisfies the academic requirement in respect of project work.

GUIDE:

MR CHANNABASAVA

HEAD OF THE DEPARTMENT

MS SWEETI JHA

EXTERNAL VIVA

1.....

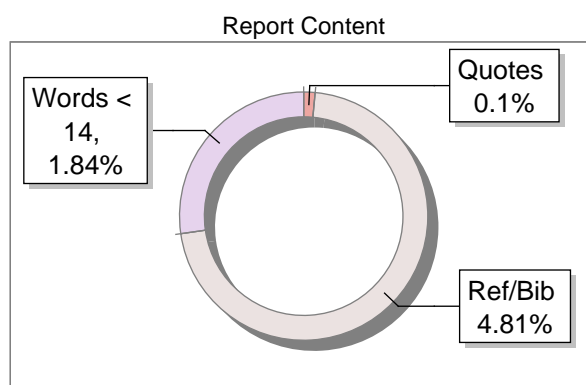
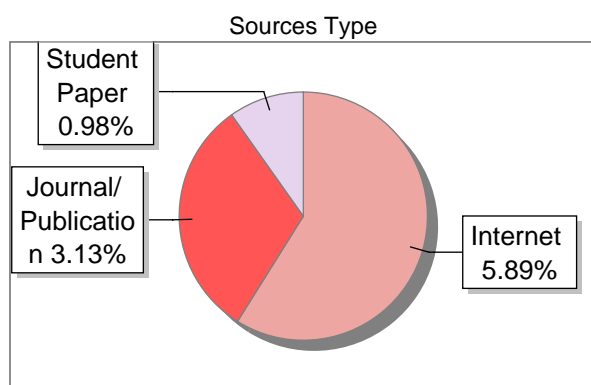
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NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATION

It is hereby certified that the project work entitled- “**DESIGN OF THE DECENTRALIZED WASTE WATER TREATMENT SYSTEMS (DEWATS) FOR NEW HORIZON COLLEGE OF ENGINEERING CAMPUS AS A FUTURE FORECASTING (2030)**” carried out by **Ms. ANU RANGANATH S R (1NH21CV008)**, **Ms. BHAVANA M REDDY (1NH21CV013)**, **Mr. KANISHKA S NAYAK(1NH21CV025)** **Ms. SAHANA K (1NH21CV058)**, a bonafide students of New Horizon college of engineering in partial fulfilment of the award of Bachelor of Engineering in Civil Engineering of the Visveswaraya Technological University, Belgaum during year 2024-2025. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report.

The project work has been approved as it satisfies the academic requirements in respect of project work of 7th Semester prescribed for the said Degree.

PROJECT
COORDINATOR

MS. SWETTI JHA

HOD-INCHARGE
Dept. of Civil Eng

MS. SWETTI JHA

PRINCIPAL

DR. MAJUNATHA

EXTERNAL EXAMINERS:

Name of the examiners

Signature with date

1. _____

2. _____



**NEW HORIZON
COLLEGE OF ENGINEERING**

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Accredited by NAAC with 'A' Grade & Accredited by NBA

ACKNOWLEDGEMENT

We express our sincere thanks to **Dr. MOHAN MANGHNANI**, Chairman of New Horizon college of Engineering for providing necessary infrastructure and creating good environment.

We would express our great thanks to **Dr. MANJUNATHA**, Principal of New Horizon College of Engineering, for granting us permission to undertake the VTU prescribed project.

We express our deep sense of gratitude and thanks to the Head of the department of Civil engineering department **Ms. SWETTI JHA**, HOD-INCHARGE & Senior assistant professor, for providing necessary facilities and encouraging us to make this project grand success.

We sincerely acknowledge the encouragement, timely help and guidance of **Ms. SWETTI JHA**, HOD-INCHARGE & Senior assistant professor, Civil Department.

We deeply express our gratitude to the lab instructor **Mr. SANJEEV** for being a great support in performing our lab tests.

With a great pleasure we wish to express our deep sense of gratitude and profound thanks to staff members of the Department of Civil Engineering. Their valuable guidance in project work helped us to complete the project within time.

Finally, we express our sincere thanks to everyone who as kindly co-operated and helped for the successful completion of the project.

VISVESVARAYA TECHNOLOGICAL
UNIVERSITY, BELAGAVI-590018



2024-2025

**“PARTIAL REPLACEMENT OF SUGARCANE BAGASSE ASH AS
FINE AGGREGATE FOR MORTAR BLOCKS”**

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENT 7th SEMESTER FOR THE AWARD OF DEGREE

DEPARTMENT OF CIVIL ENGINEERING

USN

NAME

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1NH21CV052

PRASHAANTH K

1NH21CV068

SURAJ N

1NH21CV072

UTTAM MU

UNDER THE GUIDANCE

OF

Mr. CHANNABASAVA

Assistant Professor

Academic year :- 2024-2025



NEW HORIZON COLLEGE OF ENGINEERING

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Accredited by NAAC with 'A' Grade, Accredited by NBA

ACKNOWLEDGEMENT

We express our sincere thanks to **Dr. MOHAN MANGHANI**, Chairman of **New Horizon College of Engineering** for providing necessary infrastructure and creating good environment.

We would express our great thanks to **Dr. MANJUNATHA**, Principal of **New Horizon college of Engineering**, for granting us permission to undertake the VTU prescribed project.

We express our deep sense of gratitude and thanks to head of **Civil Engineering Department**, **Ms. SWETTI JHA**, for providing necessary facilities and encouraging us to make this project grand success.

We sincerely acknowledge the encouragement, timely help and guidance of **Mr. CHANNABASAVA Assistant Professor Department of civil Engineering**.

We feel with a great pleasure to express our deep of gratitude and profound thanks to **staff members of the department of civil engineering** their valuable guidance in both field and office work helped us to complete the project within the prescribed time.



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Awarded Outstanding Technical Education Institute in Karnataka -2016 Outer Ring Road, Near
Marathahalli, Bengaluru-560103.

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE



Certified that the project work entitled “PARTIAL REPLACEMENT OF SUGARCANE BAGASSE ASH AS FINE AGGREGATE FOR MORTAR BLOCKS” Work, carried out by **PRASHAANTH K, PRANAY P, SURAJ N** and **UTTAM MU** bearing USN **1NH221CV051, 1NH21CV052 1NH21CV68** and **1NH21CV072** a Bonafide students of seven semesters in partial fulfillment for the award Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2024- 2025. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been certified as it satisfies the academic requirement in respect of project work.

GUIDE:

Mr Channabasava

HEAD OF THE DEPARTMENT

Ms. Sweeti jha

External viva:

1.

2.

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018**



2024-2025

**“TREATMENT OF MICROFIBER FROM WASTEWATER BY
ELECTROCOAGULATION AND BIOLOGICAL METHOD”**

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT

7th SEMESTER FOR THE AWARD OF DEGREE

DEPARTMENT OF CIVIL ENGINEERING

USN

NAME

1NH22CV408

SANJEEVKUMAR B E

1NH21CV057

ROHINI B C

1NH21CV017

DARSHAN D

1NH21CV063

SHANTH KUMAR M

UNDER THE GUIDANCE OF

Ms. SWETTI JHA

HEAD OF THE DEPARTMENT

DEPARTMENT OF CIVIL ENGINEERING



ACKNOWLEDGEMENT

We would express our great thanks to **Dr. MANJUNATHA**, Principal of **New Horizon College of Engineering**, for granting us permission to undertake the VTU prescribed project.

We express our deep sense of gratitude and thanks to Head of **Civil Engineering Department**, **Ms. SWETTI JHA**, for providing necessary facilities and encouraging us to make this project grand success.

We sincerely acknowledge the encouragement, timely help and guidance of **Ms. SWETTI JHA**, Head of the Department, **Department of civil engineering**.

We felt with a great pleasure to express our deep of gratitude and profound thanks to **staff members of the Department of Civil Engineering**. Their valuable guidance in both field and office work helped us to complete the project within the prescribed time.



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Awarded Outstanding Technical Education Institute in Karnataka -2016 Outer

Ring Road, Near Marathahalli, Bengaluru-560103.

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

Certified that the project work entitled “TREATMENT OF MICROFIBER FROM WASTEWATER BY ELECTROCOAGULATION AND BIOLOGICAL METHOD” Work, carried out by **BATCH-06** a Bonafide students of seven semester in partial fulfilment for the award Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2024-2025. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been certified as it satisfies the academic requirement in respect of project work.

GUIDE:

Ms. Swetti jha

HEAD OF THE DEPARTMENT

Ms. Sweeti jha

External viva:

1.

2.

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018**



2024-2025

**“ COMPARITIV STUDY OF CONVENTIONAL CONCRETE
WITH JHAMA BRICKS CONCRETE ”**

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENT 7th SEMESTER FOR THE AWARD OF DEGREE

DEPARTMENT OF CIVIL ENGINEERING

USN

NAME

1NH22CV403

HARSHITHA M B

1NH22CV409

SHIRISHA M

1NH22CV410

SNEHA K M

1NH21CV075

VINAY S N

UNDER THE GUIDANCE OF

Mr. CHANNABASAVA

ASSISTANT PROFESSOR

DEPARTMENT OF CIVIL ENGINEERING



ACKNOWLEDGEMENT

We would express our great thanks to **Dr. MANJUNATHA**, Principal of **New Horizon College of Engineering**, for granting us permission to undertake the VTU prescribed project. We express our deep sense of gratitude and thanks to Head of **Civil Engineering Department**, **Ms. SWETTI JHA**, for providing necessary facilities and encouraging us to make this project grand success. We sincerely acknowledge the encouragement, timely help and guidance of **Mr. CHANNABASAVA**, Head of the Department, **Department of civil engineering**. We felt with a great pleasure to express our deep of gratitude and profound thanks to **staff members of the Department of Civil Engineering**. Their valuable guidance in both field and office work helped us to complete the project within the prescribed time.



NEW HORIZON COLLEGE OF ENGINEERING

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Awarded Outstanding Technical Education Institute in Karnataka -2016 Outer Ring

Road, Near Marathahalli, Bengaluru-560103.

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

Certified that the project work entitled “**COMPRITIVE STUDY OF CONVENTIONAL CONCRETE WITH JHAMA BRICKS CONCRETE**” Work, carried out by **HARSHITH M B** bearing USN **1NH22CV403** a Bonafide students of seven semester in partial fulfillment for the award Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2024-2025. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been certified as it satisfies the academic requirement in respect of project work.

GUIDE:

Mr. Channabasava

HEAD OF THE DEPARTMENT

Ms. Swetti jha

External viva:

1.

2.

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018**



2024-2025

**“PARTIAL REPLACEMENT OF PLASTICS FLAKES AS FINE
AGGREGATE FOR MORTAR BLOCKS”**

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENT 7th SEMESTER FOR THE AWARD OF DEGREE

DEPARTMENT OF CIVIL ENGINEERING

<u>USN</u>	<u>NAME</u>
1NH22CV400	AKHIL NAIK
1NH22CV407	SAMPATH
1NH21CV050	PAVAN N K
1NH21CV071	TILAK C

UNDER THE GUIDANCE

OF

Mr. CHANNABASAVA

Assistant Professor

Academic year: - 2024-2025



**NEW HORIZON
COLLEGE OF ENGINEERING**

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

ACKNOWLEDGEMENT

We express our sincere thanks to **Dr. MOHAN MANGHANI**, Chairman of **New Horizon College of Engineering** for providing necessary infrastructure and creating good environment.

We would express our great thanks to **Dr. MANJUNATHA**, Principal of **New Horizon college of Engineering**, for granting us permission to undertake the VTU prescribed project.

We express our deep sense of gratitude and thanks to head of **Civil Engineering Department**, **Ms. SWETTI JHA**, for providing necessary facilities and encouraging us to make this project grand success.

We sincerely acknowledge the encouragement, timely help and guidance of **Mr. CHANNABASAVA** Assistant Professor Department of civil Engineering.

We fell with a great pleasure to express our deep of gratitude and profound thanks to **staff members of the department of civil engineering** their valuable guidance in both field and office work helped us to complete the project within the prescribed time.



NEW HORIZON
COLLEGE OF ENGINEERING

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Awarded Outstanding Technical Education Institute in Karnataka -2016

Outer Ring Road, Near Marathahalli, Bengaluru-560103.

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE



Certified that the project work entitled “**PARTIAL REPLACEMENT OF PLASTICS FLAKES AS FINE AGGREGATE FOR MORTAR BLOCKS**” Work, carried out by **AKHIL NAIK** bearing USN **1NH22CV400** a Bonafide students of seven semesters in partial fulfillment for the award Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2024-2025. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been certified as it satisfies the academic requirement in respect of project work.

GUIDE:

Mr Channabasava

HEAD OF THE DEPARTMENT

Ms. Sweeti jha

External viva:

1.

2.



NEW HORIZON
COLLEGE OF ENGINEERING
New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

**VISVESVARAYA TECHNOLOGICAL
UNIVERSITY**

Jnana Sangama, Belagavi, Karnataka -590018



2023-24

**ANALYSIS, MODELING AND DESIGN OF AUTOMATIC UPLIFT
BRIDGE DURING FLOOD**

**A PROJECT REPORT SUBMITTED IN PARTIAL
FULFILLMENT FOR THE 7TH SEMESTER
BACHELOR OF ENGINEERING IN CIVIL ENGINEERING**

Submitted by

GANESH NAIK K – 1NH22CV402

KIRAN N N – 1NH22CV404

GNANA TEJA A – 1NH21CV021

SUNIL ZULPI - 1NH19CV117

Under the guidance of

Mr. CHANNABASAVA

Assistant professor

DEPARTMENT OF CIVIL ENGINEERING

AY: 2024-25

ACKNOWLEDGEMENT

We have the great pleasure in expressing our deep sense of gratitude to **Dr. MOHAN MANGHNANI**, Chairman of New Horizon Educational Institutions for providing the necessary infrastructure and creating a good environment.

We take this opportunity to express our profound gratitude to **Dr. MANJUNATHA**, Principal NHCE, for his constant support and encouragement.

We would also like to thank **Mrs. SWETTI JHA**, Sr Assistant Professor and Head of Department of Civil Engineering, for his constant support.

We express our gratitude to **Mr. CHANNABASAVA**, Assistant Professor Department of Civil Engineering, our project guide, for constantly monitoring the development of the project and setting up precise deadlines. His valuable suggestions were the motivating factors in completing the work.

Finally, we express our sincere thanks to lab instructors **Mr. SANJEEVE** who helped us to complete the project successful and all our friends for their kind co-operation and help for the successful completion of our project.

GANESH NAIK K – 1NH22CV402

KIRAN N N – 1NH22CV404

GNANA TEJA A – 1NH21CV021

SUNIL ZULPI – 1NH19CV117



NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

Certified that the project work entitled “**ANALYSIS, MODELING AND DESIGN OF AUTOMATIC UPLIFT BRIDGE DURING FLOOD**” carried out by **Mr. Ganesh naik K (1NH22CV402)**, **Mr. Kiran N N (1NH22CV404)**, **Mr. Gnana teja A (1NH21CV021)**, **Mr. Sunil zulpi (1NH19CV117)**, a Bonafide students of New Horizon College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of the Visveswaraya Technological University, Belgaum during the year 2024-25. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of Project of VIII semester prescribed for the said Degree.

GUIDE:

Mr. CHANNABASAVA

HEAD OF THE DEPARTMENT:

Mrs. SWETTI JHA

.....

.....

EXAMINERS:

1.

2.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

BELAGAVI-590018



360° ROTATING SOLAR TRACKING SYSTEM

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT 7TH
SEMESTER FOR THE AWARD OF DEGREE

DEPARTMENT OF CIVIL ENGINEERING

NAME	USN
KENEISEDELIE SUOHU	1NH21CV027
KEVISELHOU SOLO	1NH21CV028
MHALER SEKHOSE	1NH21CV036
THEJANGULIE SOLO	1NH21CV070

UNDER THE GUIDANCE

OF

Mrs SWETTI JHA

Senior Assistant Professor & Head of Department Incharge

Department of Civil Engineering

Academic year: - 2024-2025



ACKNOWLEDGEMENT

We express our sincere thanks to **Dr.MOHAN MANGHANI**, chairman of **New Horizon College of Engineering** for providing necessary infrastructure and creating good environment

We would express our great thanks to **Dr.MANJUNATHA**, Principal of **New Horizon College of Engineering** , for granting us permission to undertake the VTU prescribed project.

We express our deep sense of gratitude and thanks to Head of **Civil ENGINEERING Department** , **Ms SWETTI JHA** , for providing necessary facilities and encouraging us to make this project grand success.

We felt with a great pleasure to express our deep of gratitude and profound thanks to staff members of the Department of Civil Engineering .Their valuable guidance in both field and office work help work helped us to complete the project within the prescribe time.

Finally, we express our sincere thanks to lab instructors who helped us in the camp to complete the camp successful and all our friends for their kind and co-operation and help for the successful completion of the project.



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Awarded Outstanding Technical Education Institution in Karnataka-2016

Outer Ring Road ,Near Marathahalli,Bengaluru-560103

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE



Certified that the project titled “**360° ROTATING SOLAR TRACKING SYSTEM**” work carried out by **BATCH 10** a bonafide students of 7TH semester in partial fulfillment for the award bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University,Belagavi during the year 2024-2025 .It is certified that all corrections / suggestion indicated for internal assessment have been incorporated in the report .The project has been certified as it certified the academic requirement in respect of project work.

GUIDE:

Ms Swetti Jha

HOD INCHARGE

Ms.Swetti Jha

Examiners:

1.

2.



NEW HORIZON
COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018



“FORMATION OF FLOOR TILES FROM PLASTIC WASTAGE”
A PROJECT REPORT SUBMITTED IN PARTIAL FULFILMENT
FOR THE 7th SEMESTER

BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

NAME

USN

FEROZ AHMAD

1NH21CV019

GAURAV THAPA

1NH21CV020

MOHAMMED SHAFAN AHMED

1NH21CV040

MOHAMMAD MUSHARAF PARRAY

1NH21CV037

SAI DHARSHAN M

1NH21CV059

UNDER THE GUIDANCE OF

MR. CHANNABASAVA

ASSISTANT PROFESSOR

DEPARTMENT OF CIVIL ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

ACKNOWLEDGEMENT

We express our sincere thanks to **Dr. MOHAN MANGHNANI**, Chairman of New Horizon College of Engineering for providing necessary infrastructure and creating good environment.

We would express our great thanks to **Dr. MANJUNATHA**, Principal of New Horizon College of Engineering, for granting us permission to undertake the VTU prescribed project.

We express our deep sense of gratitude and thanks to Head, department of Civil Engineering **Ms.SWETTI JHA**, for providing necessary facilities and encouraging us to make this project grand success.

We sincerely acknowledge the encouragement, timely help and guidance of **MR. CHANNABASAVA**, Assistant professor, Department of Civil engineering.

With a great pleasure we wish to express our deep sense of gratitude and profound thanks to staff members of the Department of Civil Engineering. Their valuable guidance in both field and office work helped us to complete the project within the prescribed time. Finally, we express our sincere thanks to lab instructors who helped us to complete the project successful and all our friends for their kind co-operation and help for the successful completion of the project.



The Trust is a recipient of Prestigious Rajyotsava State Award 2012 Conferred by the Government of karnataka

Awarded Outstanding Technical Education Institute in Karnataka

2016 Outer Ring Road, Near Marathahalli, Bengaluru-560103.

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

Certified that the project work entitled “**FORMATION OF FLOOR TILES FROM PLASTIC WASTAGE**” Work, carried out by **BATCH-11** a Bonafide students of seven semester in partial fulfilment for the award Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2024- 2025. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been certified as it satisfies the academic requirement in respect of project work.

GUIDE:

HEAD OF THE DEPARTMENT

Mr. CHANNABASAVA

Ms. Sweeti jha

External viva:

1.

2.



NEW HORIZON
COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi, Karnataka -590018



2023-24

“ANALYSIS AND DESIGN OF RESIDENTIAL BUILDING BY REVIT SOFTWARE”

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT

FOR THE 7TH SEMESTER

DEPARTMENT OF CIVIL ENGINEERING

USN

NAME

1NH22CV405

MANOJ GOWDA R C

1NH22CV076

VISHAL H R

1NH21CV046

NITHIN M

1NH21CV007

ANKUSH B S

Under the guidance of Mr.

CHANNABASAVA

Assistant professor

DEPARTMENT OF CIVIL ENGINEERING

AY: 2024-25

ACKNOWLEDGEMENT

We have the great pleasure in expressing our deep sense of gratitude to **Dr. MOHAN MANGHNANI**, Chairman of New Horizon Educational Institutions for providing the necessary infrastructure and creating a good environment.

We take this opportunity to express our profound gratitude to **Dr. MANJUNATHA**, Principal NHCE, for his constant support and encouragement.

We would also like to thank **Mrs. SWETTI JHA**, Professor and Head of Department of Civil Engineering, for his constant support.

We express our gratitude to **Mr. CHANNABASAVA**, Assistant Professor Department of Civil Engineering, our project guide, for constantly monitoring the development of the project and setting up precise deadlines. His valuable suggestions were the motivating factors in completing the work.

Finally, we express our sincere thanks to lab instructors **Mr. SANJEEVE** who helped us to complete the project successful and all our friends for their kind co-operation and help for the successful completion of our project.



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COLLEGE OF ENGINEERING
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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

Certified that the project work entitled “**ANALYSIS AND DESIGN OF G+3 RESIDENTIAL BUILDING USING STAAD.PRO AND MANUAL CALCULATION**” carried out by BATCH 12, a Bonafide students of New Horizon College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of the Visveswaraya Technological University, Belgaum during the year 2024-25. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of Project of VIII semester prescribed for the said Degree.

GUIDE:

Mr. CHANNABASAVA

HEAD OF THE DEPARTMENT:

Mrs. SWETTI JHA

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EXAMINERS:

1.

2.

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018**



2024-2025

**“MITIGATING COASTAL SOIL EROSION USING HDPE NET AND
BULB PILE FOOTING”**

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENT 7th SEMESTER FOR THE AWARD OF DEGREE

DEPARTMENT OF CIVIL ENGINEERING

USN

NAME

1NH21CV002

AJAY V

1NH21CV065

SRUJAN S K

1NH21CV066

SUDARSHAN S G

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Y P SHIVARAJ NAIK

1NH22CV406

OWAIS AZIZ WANI

UNDER THE GUIDANCE OF

Mr. CHANNABASAVA

ASSISTANT PROFESSOR

DEPARTMENT OF CIVIL ENGINEERING



ACKNOWLEDGEMENT

We would express our great thanks to **Dr. MANJUNATHA**, Principal of **New Horizon College of Engineering**, for granting us permission to undertake the VTU prescribed project. We express our deep sense of gratitude and thanks to Head of **Civil Engineering Department**, **Ms. SWETTI JHA**, for providing necessary facilities and encouraging us to make this project grand success. We sincerely acknowledge the encouragement, timely help and guidance of **Mr. CHANNABASAVA**, Assistant professor, **Department of civil engineering**. We felt with a great pleasure to express our deep of gratitude and profound thanks to **staff members of the Department of Civil Engineering**. Their valuable guidance in both field and office work helped us to complete the project within the prescribed time.



NEW HORIZON COLLEGE OF ENGINEERING

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Awarded Outstanding Technical Education Institute in Karnataka -2016 Outer Ring

Road, Near Marathahalli, Bengaluru-560103.

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

Certified that the project work entitled “MITIGATING COASTAL SOIL EROSION USING HDPE NET AND BULB PILE FOOTING” Work, carried out by **BATCH-13** a Bonafide students of seven semester in partial fulfillment for the award Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2024-2025. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been certified as it satisfies the academic requirement in respect of project work.

GUIDE:

Mr. Channabasava

HEAD OF THE DEPARTMENT

Ms. Swetti jha

External viva:

1.

2.



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**VISVESVARAYA TECHNOLOGICAL
UNIVERSITY**

Jnana Sangama, Belagavi, Karnataka -590018



2023-24

ANALYSIS, MODELING AND DESIGN OF SWING BRIDGE

A PROJECT REPORT SUBMITTED IN PARTIAL

FULFILLMENT FOR THE 7TH SEMESTER

BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

Submitted by

M KARUN – 1NH21CV032

DHANUSH K – 1NH22CV401

BHARATH SIMHA REDDY – 1NH21CV033

MOHAN RAJ M – 1NH21CV041

B SOORYA PRAKASH – 1NH21CV401

Under the guidance of

Mr. CHANNABASAVA

Assistant professor

DEPARTMENT OF CIVIL ENGINEERING

AY: 2024-25

ACKNOWLEDGEMENT

We have the great pleasure in expressing our deep sense of gratitude to **Dr. MOHAN MANGHNANI**, Chairman of New Horizon Educational Institutions for providing the necessary infrastructure and creating a good environment.

We take this opportunity to express our profound gratitude to **Dr. MANJUNATHA**, Principal NHCE, for his constant support and encouragement.

We would also like to thank **Mrs. SWETTI JHA**, Senior Assistant Professor and Head of Department of Civil Engineering, for his constant support.

We express our gratitude to **Mr. CHANNABASAVA**, Assistant Professor Department of Civil Engineering, our project guide, for constantly monitoring the development of the project and setting up precise deadlines. His valuable suggestions were the motivating factors in completing the work.

Finally, we express our sincere thanks to lab instructors **Mr. SANJEEVE** who helped us to complete the project successful and all our friends for their kind co-operation and help for the successful completion of our project.

M KARUN – 1NH21CV032
DHANUSH K – 1NH22CV401
BHARATH SIMHA REDDY – 1NH21CV033
MOHAN RAJ M – 1NH21CV041
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NEW HORIZON COLLEGE OF ENGINEERING

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Outer Ring Road, Bellandur, Bengaluru – 560103

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

Certified that the project work entitled “**ANALYSIS, MODELING AND DESIGN OF SWING BRIDGE**” carried out by **Mr. M KARUN (1NH21CV032), DHANUSH K (1NH22CV401), MOHAN RAJ M (1NH21CV041), BHARATH SIMHA REDDY (1NH21CV033), B SOORYA PRAKSH (1NH21CV401)** a Bonafide students of New Horizon College of Engineering in partial fulfilment for the award of Bachelor of Engineering in Civil Engineering of the Visveswaraya Technological University, Belgaum during the year 2024-25. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of Project of VIII semester prescribed for the said Degree.

GUIDE:

SENIOR ASSISTANT PROFESSOR
AND HEAD OF THE DEPARTMENT:

Mr. CHANNABASAVA

Mrs. SWETTI JHA

.....

.....

EXAMINERS:

1.

2.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

BELAGAVI-590018



2024-2025

**“REMOVAL MICROFIBER FROM WASTEWATER BY
ELECTROCOAGULATION AND BIOLOGICAL METHOD”**

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT

7th SEMESTER FOR THE AWARD OF DEGREE

DEPARTMENT OF CIVIL ENGINEERING

USN

NAME

1NH21CV039

MOHAMMED NAWAZ TAHIR

1NH21CV047

P BABA SAFFAN

1NH21CV053

PRATHIBHA S

1NH21CV060

SAMRUDHI S MAHAJAN

UNDER THE GUIDANCE OF

Ms. SWETTI JHA

SENIOR ASST PROFESSOR & HEAD OF DEPARTMENT INCHARGE

DEPARTMENT OF CIVIL ENGINEERING



**NEW HORIZON
COLLEGE OF ENGINEERING**

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ACKNOWLEDGEMENT

We express our sincere thanks to **Dr. MOHAN MANGHANI**, Chairman of **New Horizon College of Engineering** for providing necessary infrastructure and creating good environment.

We would express our great thanks to **Dr. MANJUNATHA**, Principal of **New Horizon College of Engineering**, outer ring road Marathahalli, Bengaluru -560103 for granting us permission to undertake the VTU prescribed project.

We express our deep sense of gratitude and thanks to Head of **Civil Engineering Department Incharge, Ms. SWETTI JHA**, for providing necessary facilities and encouraging us to make this project grand success.

We felt with a great pleasure to express our deep of gratitude and profound thanks to **staff members of the Department of Civil Engineering**. Their valuable guidance in both field and office work helped us to complete the project within the prescribed time.

Finally, we express our sincere thanks to lab instructors who helped us in the camp to complete the camp successful and all our friends for their kind co-operation and help for the successful completion of the project.



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Accredited by NAAC with 'A' Grade, Accredited by NBA

Outer Ring Road, Near Marathahalli, Bengaluru-560103.

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE



Certified that the project work entitled **“REMOVAL OF MICROFIBERS FROM WASTE WATER BY ELECTROCOAGULATION AND BIOLOGICAL METHOD”** Work, carried out by **BATCH15** a bonafide students of 7th semester in partial fulfillment for the award Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2024-2025. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project has been certified as it satisfies the academic requirement in respect of project work.

GUIDE:

Ms. Swetti Jha

HOD INCHARGE

Ms. Swetti Jha

Examiners:

1.

2.