

**AN EXPERIMENTAL STUDY ON COMPRESSIVE STRENGTH OF  
FIBER REINFORCED HIGH STRENGTH CONCRETE USING  
RECYCLED COARSE AGGREGATE**

***A PROJECT REPORT***

*submitted in partial fulfilment of the requirements*

*for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

*in*

**CIVIL ENGINEERING**

*Submitted by*

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**DEPARTMENT OF CIVIL ENGINEERING**

**GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A)**

**CHAITANYA KNOWLEDGE CITY, NH-16, RAJAMAHENDRAVARAM, AP**

**Jawaharlal Nehru Technological University, Kakinada, AP, India**

***APRIL 2023***

# GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Autonomous)

CHAITANYA KNOWLEDGE CITY, NH-16, RAJAMAHENDRAVARAM, 533296, AP

## BONAFIDE CERTIFICATE

Certified that this project report "AN EXPERIMENTAL STUDY ON COMPRESSIVE STRENGTH OF FIBER REINFORCED HIGH STRENGTH CONCRETE USING RECYCLED COARSE AGGREGATE" is the bonfide work of "SESHAPALLI SUMANTH (20555A0107), GOLLAPALLI UPENDRA (20555A0104), CHEICK MOHAMED KONE (19551A0102) and NOKKU ISAAC RAJ (19551A0120)", who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfilment of the requirements of the Degree of Bachelor of Technology in Civil Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology, Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.

Signature of the Head of the Department

Dr. D. VENKATESWARLU Ph.D.

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SUPERVISOR

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Civil Engineering

External Viva voice conducted on

4/4/23

Internal Examiner

External Examiner

# **STUDY ON COMPACTION CHARACTERISTICS OF BLACK COTTON SOIL BY REINFORCING WITH FIBER, WOOD ASH AND STONE DUST**

***A PROJECT REPORT***

***submitted in partial fulfilment of the requirements***

***for the award of the degree of***

**BACHELOR OF TECHNOLOGY**

*in*

**CIVIL ENGINEERING**

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***APRIL 2023***

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Certified that this project report "STUDY ON COMPACTION CHARACTERISTICS OF BLACK COTTON SOIL BY REINFORCING WITH FIBER, WOOD ASH AND STONE DUST" is the bonafide work of "KODIDELA LEELAVATHI (19551A0113), VEMAVARAPU SATYA SAI BABU (19551A0132), VASAMSETTI VENKATA SAI (20555A0118) and BONAGIRI MANI KUMAR (20555A0112)", who carried out the project work under my supervision during the year 2019 to 2020, towards partial fulfilment of the requirements of the Degree of Bachelor of Technology in Civil Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology, Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.

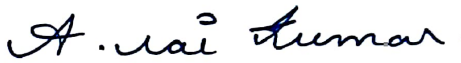
  
Signature of the Head of the Department

Dr. D. VENKATESWARLU Ph.D.

HEAD OF THE DEPARTMENT

Department of Civil Engineering  
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RAJAHMUNDRY-533 296

Date 4/4/23



Signature of the Supervisor

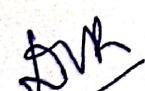
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External Viva voice conducted on 4/4/23

  
Internal Examiner

  
External Examiner

# STABILIZATION OF EXPANSIVE SOIL BY WASTE LIME FROM QUARRIES

## *A PROJECT REPORT*

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

**BACHELOR OF TECHNOLOGY**

*in*

**CIVIL ENGINEERING**

*Submitted by*

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**APRIL 2023**

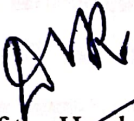
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CHAITANYA KNOWLEDGE CITY, NH-16, RAJAMAHENDRAVARAM, 533296, AP

**BONAFIDE CERTIFICATE**

Certified that this project report "STABILIZATION OF EXPANSIVE SOILS BY WASTE LIME FROM QUARRIES" is the bonafide work of "K. ABHISHEK DESHAI (19551A0112), K. SANTOSH KUMAR (19551A0115), Y.NARAYANA SWAMY (19551A0134)" who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfilment of the requirements of the Degree of Bachelor of Technology in Civil Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology, Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.



Signature of the Head of the Department

**Dr. D.VENKATESWARLU, Ph.D**

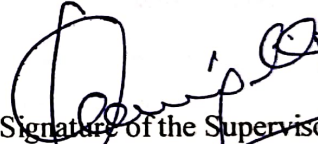
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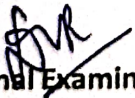
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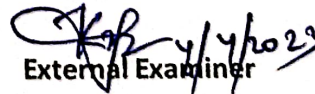
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Internal Examiner



External Examiner

**EXPERIMENTAL INVESTIGATION OF CONCRETE  
WITH SOIL USED TO SUBSTITUTE SOME OF  
THE FINE AGGREGATE**

***A PROJECT REPORT***

***submitted in partial fulfilment of the requirements***

***for the award of the degree of***

**BACHELOR OF TECHNOLOGY**

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**Jawaharlal Nehru Technological University, Kakinada, AP, India**

***APRIL 2023***

# GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

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Certified that this project report " EXPERIMENTAL INVESTIGATION OF CONCRETE WITH SOIL USED TO SUBSTITUBE SOME OF THE FINE AGGREGATE " is the bonfide work of "DANNANA BRAVIND (20555A0119), UPPULA SUNIL (19551A0130), DEVAPATI SIVA PRASAD (20555A0106) and PALAKURTHI NAGA GANESH CHOWDARY (20555A0123)", who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfilment of the requirements of the Degree of Bachelor of Technology in Civil Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology, Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.

Signature of the Head of the Department

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**OPTIMIZATION ON STRENGTH PROPERTIES OF  
CONCRETE BY PARTIAL REPLACEMENT OF CEMENT  
WITH BAGGASE ASH**

***A PROJECT REPORT***

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

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Certified that this project report "OPTIMIZATION ON STRENGTH PROPERTIES OF CONCRETE BY PARTIAL REPLACEMENT OF CEMENT WITH BAGGASE ASH" is the bonfide work of "ADABALA BHARGAVI PADMAVATHI (20555A0110), MILIND PODDAR (19551A0118), DARAPU AYYAPPA (20555A0113), BOPPESATISH (20555A0101)" who carried out the project work under my supervision during the year 2022 to 2023, towards partial fulfilment of the requirements of the Degree of Bachelor of Technology in Civil Engineering as administered under the Regulations of Godavari Institute of Engineering & Technology, Rajamahendravaram, AP, India and award of the Degree from Jawaharlal Nehru Technological University, Kakinada. The results embodied in this report have not been submitted to any other University for the award of any degree.

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