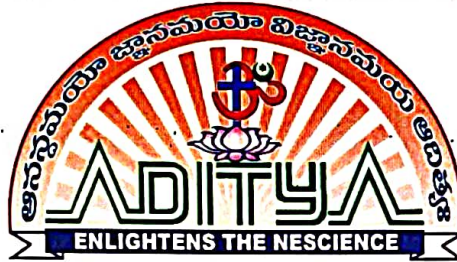


# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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Recognized by UGC under section 2(f) of the UGC Act 1956

Aditya Nagar, ABD Road, Surampalem, E.G.Dt., Ph:9959176665



## CERTIFICATE

This is to certify that the project work entitled “**ANALYSIS AND DESIGN OF A TEN STOREY EARTH QUAKE RESISTANT BUILDING USING SAP 2000**” that is being submitted for the partial fulfillment of B. Tech in **CIVIL ENGINEERING** to JNTUK, is a bonafied work done by members **P. YASHODA DEVI, P.SRINU, PATRALI DEY, N.VEERA RAJU, M.RAVINDRA BABU** during the academic year 2020-21 and it has been found worth of acceptance according to the requirement of the university.

**PROJECT GUIDE**

(Dr.C. NAGA DHEERAJ KUMAR REDDY)

**Head of the Department**  
**Civil Engineering**  
Aditya College of Engineering & Technology  
SURAMPALAM

**HEAD OF THE DEPARTMENT**

(Mr. S. SIVA CHARAN MS, M.TECH)

**EXTERNAL EXAMINAR**

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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Aditya Nagar, ADB road, Surampalem-533437 ,E.G.Dt., Ph: 99591 76665

## DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the project work report entitled "FRESH AND HARDENED PROPERTIES OF CONCRETE CONTAINING DIFFERENT FORMS OF PLASTIC WASTE - A REVIEW" that is being submitted for partial fulfilment of Bachelor of Technology in Civil Engineering to JNTUK, bonafide work done by members D.JEEVAN TEJESH (18P35A0109), CH.SRIDHAR (18P35A0107), D.VENKATA KARTHIK (18P35A0111), G.HEMANTH BABU (18P35A0112), K.SURYA VENKATA RAMANA (18P35A0115), during the academic year 2020-2021 and it has been found worthy of acceptance according to the requirement of the university.

PROJECT GUIDE

(Mr. M.M.Rao M.Tech(Ph.D))

Associate Professor

Head of the Department  
Civil Engineering  
Aditya College of Engineering & Technology  
SURAMPALAM - 533 437

HEAD OF THE DEPARTMENT

(Mr.S.Siva Charan MS,M.Tech)

Associate Professor & HOD

INTERNAL EXAMINER

EXTERNAL EXAMINER



# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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Aditya Nagar, ADB Road Surampalem -533437, E.G. Dt

## DEPARTMENT OF CIVIL ENGINEERING



## CERTIFICATE

This is to certify that the thesis entitled " **RISK MANAGEMENT IN THE LIFE CYCLE OF CONSTRUCTION PROJECTS USING SPSS SOFTWARE**" submitted by

B HARITHA RUPADEVI

17P31A0102

B J S PRAVEEN KUMAR

17P31A0103

K SIVA KRISHNA

17P31A0116

K K S S RAMAKRISHNA REDDY

17P31A0120

P S ARAVIND REDDY

17P31A0130

V SURYA NAVYATHA

17P31A0136

In partial fulfilment of the requirements for the award of Bachelors of Technology in Civil Engineering, during the academic year 2017-2021. The results embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma

Mr. GEORGE FERNANDEZ RAJ A ME.,

Project Guide

Mr. S. SIVACHARAN M.sc, M. Tech

Head of the Department  
Civil Engineering  
Aditya College of Engineering & Technology  
SURAMPALM - 533 437

External examiner

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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Aditya Nagar, ADB Road Surampalem -533437, E.G.Dt., ph:9959176665

## DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the thesis entitled **“Analysis of Performance of Seismic Resistant RC structure”** submitted by

CH. NAVEENA	17P31A0110
K. S. ABHISHEK	17P31A0119
G. V. NARENDRA	17P31A0111
M. PAVANI	17P31A0123
T. JOHN	17P31A0135
G. NARASIMHA	17P31A0113

in partial fulfillment of the requirements for the award of Bachelors of Technology in Civil Engineering, during the academic year 2020-21. The results embodied in this project report have not been submitted to any other institute or university for the award of any degree or diploma.

**P. S. S. PAVAN KUMAR** M. Tech (Ph. D)

Project Guide

**S. SIVACHARAN** M. Sc, M. Tech

Head of the Department

**External Examiner**



# CERTIFICATE

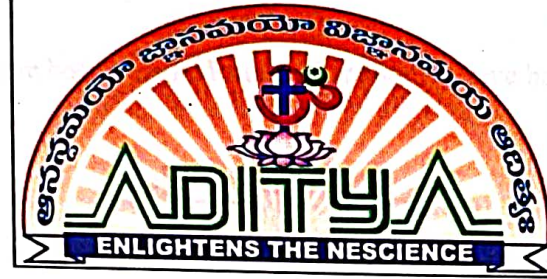
## DEPARTMENT OF CIVIL ENGINEERING ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

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Recognized by UGC under sections 2(f) & 12(B) of UGC Act 1956

ADB Road, Surampalem-533437 near KAKINADA, E.G. District

2018-2021



This is to certify that the project report entitled

### HYDROLOGICAL MODELLING OF SARADA RIVER BASIN BY USING QSWAT MODEL

Being submitted by

A. David Raju	18P35A0102
V. Sai Krishna	18P35A0155
M.B.V. Swamy	18P35A0128
R. Siva Prasad	18P35A0144
B. Pavan Kumar	18P35A0105

a partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Civil Engineering. It is the record of bona-fide work, carried out by them under guidance and supervision of **Mr. M. Satish Kumar**.

*M. Satish Kumar*

PROJECT GUIDE  
Mr. M. Satish Kumar

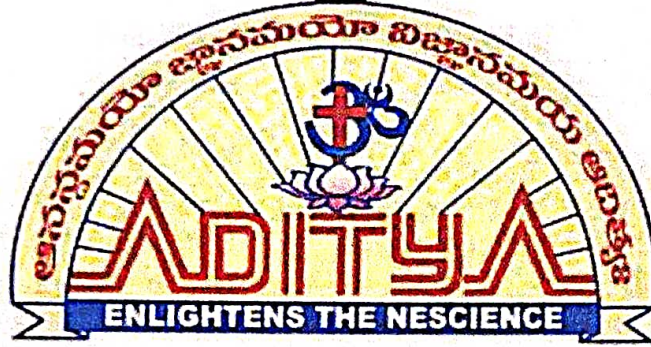
*[Signature]*  
HEAD OF THE DEPARTMENT  
Civil Engineering  
Aditya College of Engineering & Technology  
SURAMPALEM - 533 437

*[Signature]*  
EXTERNAL EXAMINER

**ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY**

(Approved by AICTE - Affiliated to JNTU Kakinada - Accredited by NBA, NAAC  
with 'A' Grade, Recognized by UGC under sections 2(f) and 12(B) of UGC Act, 1956)  
Aditya Nagar, ADB Road, Surampalem, E.G.Dist., A.P-533437

Department of Civil Engineering



*Certificate*

This is to certify that the project report entitled “GROUND WATER ANALYSIS: PLOTTING  
AND REPRESENTING THE CHEMICAL CONCENTRATIONS FOR THE REGION  
KAKINADA SATELLITE IMAGERY USING QGIS”, being submitted by

RAHUL KUMAR	(Roll. No: 17P31A0131)
R. JOHN RICKY	(Roll. No: 17P31A0132)
A.SYAM APPARAO	(Roll. No: 17P31A0101)
G. YESWANTH	(Roll. No: 17P31A0112)
B. NAGA RAJU	(Roll. No: 17P31A0106)
P. HARI KRISHNA	(Roll. No: 17P31A0128)

Of 2017-2021 submitted in partial fulfillment of the requirements for the award of the degree  
of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING**, JNTUK, is a record of  
bonafide work carried out by them under my guidance and supervision. The matter embodied  
in this has not been submitted to any other university for the award of any other degree.

Signature:

Project Guide

External Examiner

Head of the department

Head of the Department  
Civil Engineering  
Aditya College of Engineering & Technology  
SURAMPALAM - 533 437



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ADB road, Surampalem-533437 ,E.G.Dt., Ph: 99591 76665 DEPARTMENT OF CIVIL ENGINEERING

### DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the project work entitled "**EFFECT OF RECYCLED PLASTIC IN MORTAR AND CONCRETE AND THE APPLICATION OF GAMMA IRRADIATION - A REVIEW**" that is being submitted for the partial fulfilment of B.Tech degree in civil engineering to JNTUK, is a bonfire work done by members K.SWAMY (18P35A0122), K.LOVARAJU (18P35A0121), M.L.K. PRAVEEN (18P35A0123), M.APPAJI (18P35A0125), R.BHARATHKUMAR (18P35A0145) during the academic year 2019-20 and it has been found worthy of acceptance according to the requirement of the university.

PROJECT GUIDE

Mr. M.M.RAO M.Tech (Ph.D)  
Associate Professor

Head of the Department  
HEAD OF THE DEPARTMENT  
Civil Engineering & Technology  
M. SIVA CHARAN M.S. M.Tech  
SURAMPALAM - 533 437  
Associate Professor

INTERNAL EXAMINAR

EXTERNAL EXAMINAR

# ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY

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Aditya Nagar, ADB Road, Surampalem – 533 437

## DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled

## "A REVIEWED PROJECT ON PARTIAL REPLACEMENT OF CEMENT WITH GLASS POWDER"

being submitted by

P. VEERA LAKSHIMI SIVA	- 18P35A0142
S. R. G. BHAVANI SHANKAR	- 18P35A0150
S. GANESH SAI REDDY	- 18P35A0149
N. CHANDRA SHEKAR REDDY	- 18P35A0131
Y. SURYANARAYANA	- 18P35A0156

In partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Department Of Civil Engineering. It is the record of bonafide work carried out by them under the guidance and supervision of Mr V.VIJAY KUMAR during Academic Year of (2018-2021).

*V. Vijay Kumar*  
PROJECT GUIDE  
**Mr.V.VIJAY KUMAR**

DEPARTMENT OF CIVIL ENGINEERING

*S. Siva Charan*  
Head of the Department  
Civil Engineering  
Aditya College of Engineering & Technology  
SURAMPALAM - 533 437

**Mr. S.SIVA CHARAN**

DEPARTMENT OF CIVIL ENGINEERING

*[Signature]*  
EXTERNAL EXAMINAR

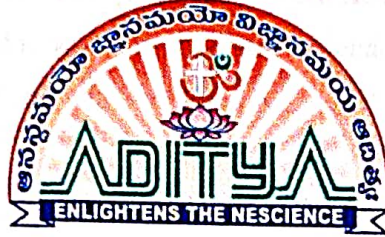


## CERTIFICATE

### **ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY**

Aditya Nagar, ADB Road, Surampalem - Pin:533437

#### **DEPARTMENT OF CIVIL ENGINEERING**



is to certify that the main project work entitled “DESIGN AND ANALYSIS OF APARTMENT by  
ing STAAD PRO” being submitted by

SAI JUNNU. (18P35A0114)

SIVAS Aidatta.K. (18P35A0118)

SRIHARIGANESHREDDY.K (18P35A0119)

VAMSI BUNGA. (18P35A0106)

CHAKRADHAR.T. (18P35A0153)

**Under the Esteemed guidance of**

**Y.SRIRAM**

Head of the Department  
Civil Engineering  
Aditya College of Engineering & Technology  
SURAMPALAM - 533 437

HEAD OF DEPARTMENT

S.SIVA CHARAN

HEAD OF DEPARTMENT

DEPARTMENT OF CIVIL ENGINEERING

ACET,SURAMPALAM

PROJECT GUIDE:

Y.SRIRAM

Asst. Professor

DEPARTMENT OF CIVIL ENGINEERING,

ACET,SURAMPALAM.

EXTERNAL EXAMINER

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Aditya Nagar, ABD Road, Surampalem, E.G.Dt., Ph:9959176665



## CERTIFICATE

This is to certify that the project report entitled "GROUND RESPONSE ANALYSIS USING DEEPSOIL SOFTWARE" Submitted by

A.K.D. PRIYANKA

(186K5A0101)

S.SRIRAM

(18P35A0151)

B.RAJA PAVAN

(18P35A0103)

R.D.L. PRASADU

(18P35A0147)

N.L.N. KARTHIK

(18P35A0132)

in partial fulfilment of requirement for the award of Bachelor of Technology degree in Civil Engineering during the academic year 2020-2021. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

PROJECT GUIDE

Mr..N. SADA SIVA RAO, M.tech

Head of the Department  
Civil Engineering  
Aditya College of Engineering & Technology  
SURAMPALAM - 533 437

HEAD OF THE DEPARTMENT

Mr. S.SIVA CHARAN( MS, M.Tech)

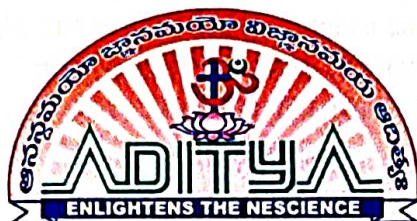
EXTERNAL EXAMINAR



# ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTU, Kakinada and Approved By AICTE, New Delhi)

## DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the main project report entitled "SEISMIC ANALYSIS ON R.C BUILDINGS USING ETABS 2019" being submitted by

1. A B S P GANESH - 18P35A0101
2. I J N D VENKATESH - 18P35A0113
3. KANDA SWAMY - 18P35A0117
4. NELLI BHANU PRAKASH - 18P35A0134
5. MANI RAYULU - 18P35A0148

In the partial fulfilment of the requirement for the award of the degree of the bachelor of technology in civil engineering. It is the record of bonafide work, carried out by them under esteemed guidance and supervisor of lakkimsetty eswar (assistant professor).

Project Guide

Mr. Lakkimsetty Eswar

M. Tech (structures)

Head of the Department  
Civil Engineering  
Aditya College of Engineering & Technology  
SURAMPALEM - 533 437

Mr. S. Siva Charan

M. Tech, MISTE.

External Evaluator

## CANDIDATE'S DECLARATION

I hereby certify that the work which is being presented in the thesis entitled "**DESIGN OF RIGID PAVEMENTS OVER IMPROVED CLAY SUBGRADES**" in partial fulfillment of the requirement for the award of Degree of Batchelor of Technology and submitted in the Civil Engineering Department, Aditya College of Engineering and Technology, is an authentic record of my own work carried out during the period from January 2021 to August 2021 under the supervision of **T.Gnananandarao**, Assistant Professor, Department of Civil Engineering, Aditya College of Engineering and Technology, Surampalem.

The matter presented in this thesis has not been submitted by me for the award of any other degree of this or any other institute/University.

I. Ganesh	17P31A0114	<u>I. Ganesh</u>
J. V.V.Mallikarjuna Rao	17P31A0115	<u>J. V.V.Mallikarjuna Rao</u>
K. Gopala Krishna	17P31A0122	<u>K. Gopala Krishna</u>
N. Naveen Kumar	17P31A0124	<u>N. Naveen Kumar</u>
N. Naveen	17P31A0125	<u>N. Naveen</u>
P.AjayManikanta Reddy	17P31A0129	<u>P. Ajay Manikanta Reddy</u>

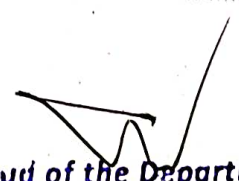
This is to certify that the above statement made by the candidate is correct to the best of our knowledge.


Date:

T.Gnananandarao  
Assistant Professor

The B. Tech Viva-Voce Examination has been held on.....

  
(Signature of Supervisor(s))

  
**Head of the Department**  
**Civil Engineering**  
**Aditya College of Engineering & Technology**  
**SURAMPALAM - 533 437**

  
(Signature of External  
examiner)



**ADITYA COLLEGE OF ENGINEERING  
AND TECHNOLOGY  
SURAMPALEM-533291(INDIA)**

**CANDIDATE'S DECLARATION**

I hereby certify that the work which is being presented in the thesis entitled **"DESIGN OF FLEXIBLE PAVEMENTS OVER IMPROVED CLAY SUBGRADES"** in partial fulfillment of the requirement for the award of Degree of Batchelor of Technology and submitted in the Civil Engineering Department, Aditya College of Engineering and Technology, is an authentic record of my own work carried out during the period from January 2021 to August 2021 under the supervision of **T Gnananandarao**, Assistant Professor, Department of Civil Engineering, Aditya College of Engineering and Technology, Surampalem.

The matter presented in this thesis has not been submitted by me for the award of any other degree of this or any other institute/University.

J.S.Phani	16P31A0116	J.S. Phani
B.Suresh	17P31A0105	B. Suresh
Ch.Guru Vijay	17P31A0107	Ch. G. Vijay
Ch.Bhaskar	17P31A0108	Ch. Bhaskar
K.Praveen Raj	17P31A0118	K. Praveen Raj
N.Suresh	17P31A0126	N. Suresh


This is to certify that the above statement made by the candidate is correct to the best of our knowledge.

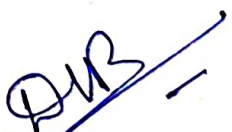
The B. Tech Viva-Voce Examination has been held on.....

Date :

Signature :

  
Project Guide

  
Head of the Department  
Head of the Department  
Civil Engineering  
Aditya College of Engineering & Technology

  
External Examiner

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Aditya Nagar, ADB road, Surampalem-533437, E.G.Dt., Ph: 99591

## DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the project report entitled "DESIGN OF WASTE STABILIZATION POND IN SURAMPALEM VILLAGE" Submitted by

V.NAGA SIVA KRISHNA	18P35A0154
P.VENKATA SAI DURGA SUMANTH	18P35A0137
P.BALA BHASKARA RAO	18P35A0141
P.TEJA SAI	18P35A0138
S.SIVA RAMA KRISHNA	18P35A0152

in partial fulfilment of requirement for the award of Bachelor of Technology degree in Civil Engineering during the academic year 2020-2021. The results embodied in this project report have not been submitted to any other institute or University for the award of any degree or diploma.

#### PROJECT GUIDE

Mr. S.SIVA CHARAN( MS, M.Tech  
Associative Professor & HOD)

Head of the Department  
Civil Engineering  
Aditya College of Engineering & Technology  
SURAMPALEM - 533 437  
HEAD OF THE DEPARTMENT  
Mr. S.SIVA CHARAN( MS, M.Tech  
Associative Professor & HOD)

INTERNAL EXAMINAR

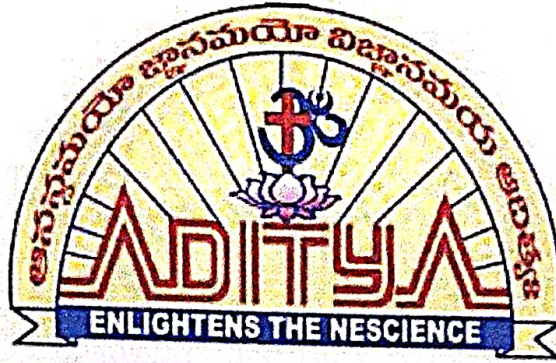
EXT



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Department of CIVIL Engineering



### Certificate

This is to certify that the project report entitled "OPTIMUM SIGNAL DESIGN USING VISSIM SOFTWARE ON FOUR ROAD JUNCTION", being submitted by

V.VENKATESH  
B.PAVAN KUMAR  
Y.GANAPATHI  
SYED AHMED ALISHA

Roll. No: 17P31A0137  
Roll. No: 17P31A0104  
Roll. No: 17P31A0138  
Roll. No: 17P31A0134

Of 2017-2021 submitted in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING**, JNTUK, is a record of bonafide work carried out by them under my guidance and supervision. The matter embodied in this has not been submitted to any other university for the award of any other degree.

Signature:

Project Guide

External Examiner

Head of the Department  
Civil Engineering  
Aditya College of Engineering & Technology  
Head of the department  
SURAMPALAM - 533437