1.3.4\_CE\_file no:2-Report &Certificates / Permission letters

#### Project Report on

## MONITORING AND REDUCING HEAT OF HYDRATION OF CONCRETE BY USING FLYASH AS ADMIXTURE IN DIFFERENT GRADES

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

# MASTERS OF TECHNOLOGY In STRUCTURAL ENGINEERING

Submitted by

K.HARSHASRI

(20AK1D02002)

Under the esteemed guidance of

K.SAIABHINAV M.Tech (Ph.D.)

Assistant Professor, Department of Civil Engineering



### DEPARTMENT OF CIVIL ENGINEERING

## ANNAMACHARYA INSTITUȚE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

(Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu. Three B.Tech Programmes (CSE,ECE & CE) are accredited by NBA, New Delhi.

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

Tirupati-517520.

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

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Tirupati-517520.

## DEPARTMENT OF CIVIL ENGINEERING



### **CERTIFICATE**

This is to certify that the project work entitled, "MONITORING AND REDUCING HEAT OF HYDRATION OF CONCRETE BY USING FLYASH AS ADMIXTURE IN DIFFERENT GRADES" on by K.HARSHASRI-20AK1D2002 is being submitted in partial fulfillment of the requirements for the award of the degree of MASTER OF TECHNOLOGY in STRUCTURAL ENGINEERING to the Annamacharya Institute of Technology and Science, Tirupati, is are cord of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any degree or diploma.

Signature of the Supervisor

K.SAIABHINAV, M.Tech (Ph.D.)
Assistant Professor,
Dept. of Civil Engineering
AITS, Tirupati.

Date: 08/09/2022

INTERNAL BYAMINER

Signarate of the Head of the Department

N. Meddy on wator

ANIL Y ENVIT Engo Hear of the department, AUTS, of CNIT Engineering

AITS, Tirupati.

EXTERNALEXAMINER

Project Report on

# STUDY ON PROPERTIES OF CONCRETE WITH PARTIAL REPLACEMENT OF CEMENT BY PUMICE STONE POWDER

Submitted in partial fulfillment of the requirements for the award of the degree of MASTERS OF TECHNOLOGY

In

### STRUCTURAL ENGINEERING

Submitted by

V.SATHISH

(20AK1D2004)

Under the guidance of

Mr. P.DHANABAL, M.Tech.

Assistant professor, Department of Civil Engineering



#### DEPARTMENT OF CIVIL ENGINEERING

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

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2021-2022

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

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Recognized under sections 2(f) & 12(B) of UGC Act 1956.)Tirupati- 517520.

## DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the project work entitled, "STUDY ON PROPERTIES OF CONCRETE WITH PARTIAL REPLACEMENT OF CEMENT BY PUMICE STONE POWDER" on by V.SATHISH- 20AK1D2004 is being submitted in partial fulfillment of the requirements for the award of the degree of MASTERS OF TECHNOLOGY in STRUCTURAL ENGINEERING to the Annamacharya Institute of Technology and Science, Tirupati, is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any degree or diploma.

Signature of the Supervisor

Mr.P.DHANABAL, M.Tech

Assistant Professor

Department of Civil Engineering

AITS, Tirupati

DATE:

Signature of the Hourd of the Department

Mr A.ANIL M. Tech (Ph.D) HEAD

Dept. of Civil Engg.

Assistant profesarts, Tirupati-517 520

Department of Civil Engineering

AITS, Tirupati

### , A Project Report on

## EXPERIMENTAL INVESTIGATION ON GEOPOLYMER BRICKS

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

# MASTERS OF TECHNOLOGY In STRUCTUAL ENGINEERING

Submitted by

**K.VARSHASRI** 

(20AK1D02005)

Under the esteemed guidance of

A.KALPANA M.Tech

Assistant Professor, Department of Civil Engineering



## DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES
(AUTONOMOUS)

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Tirupati-517520.

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Tirupati-517520.

#### DEPARTMENT OF CIVIL ENGINEERING



### CERTIFICATE

This is to certify that the project work entitled, "EXPERIMENTAL INVESTIGATION ON GEOPOLYMER BRICKS" on by K.VARSHASRI-20AK1D2005 is being submitted in partial fulfillment of the requirements for the award of the degree of MASTER OF TECHNOLOGY in STRUCTURAL ENGINEERING to the Annamacharya Institute of Technology and Science, Tirupati, is are cord of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any degree or diploma.

Signature of the Supervisor

A.KALPANA, M.Tech Assistant Professor, Dept. of Civil Engineering AITS, Tirupati.

Date: 08/09/22

INTERNALEXAMINER

Signature of the Head of the Department

AFES, With plant with 520 Dept. of Civil Engineering AITS, Tirupati.

EXTERNALEXAMINER

### Project Report on

## OPTIMIZATION OF MIX PROPORTION FOR HIGH STRENGTH CONCRETE USING GGBS AND SILICAFUME

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

### MASTERS OF TECHNOLOGY

In

### STRUCTURAL ENGINEERING

Submitted by

D.VENKATESWARA PRASAD (20AK1D2006)

Under the guidance of

Mrs. D.NIROSHA M.Tech (Ph.D)

Assistant professor, Department of Civil Engineering



#### DEPARTMENT OF CIVIL ENGINEERING

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

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Recognized under sections 2(f) & 12(B) of UGC Act 1956.)Tirupati- 517520.

## DEPARTMENT OF CIVIL ENGINEERING



## CERTIFICATE

This is to certify that the project work entitled, "OPTIMIZATION OF MIX PROPORTION FOR HIGH STRENGTH CONCRETE USING GGBS AND SILICA FUME" on by D. VENKATESWARA PRASAD-20AK1D2006 is being submitted in partial fulfillment of the requirements for the award of the degree of MASTERS OF TECHNOLOGY in STRUCTURAL ENGINEERING to the Annamacharya Institute of Technology and Science, Tirupati, is a record of bonafide work carried out by them under my guidance and supervision. The esults embodied in this project report have not been submitted to any degree or diploma.

Signature of the Supervisor

Mrs. D.NIROSHA M. Tech (Ph.D)

Assistant Professor, Department of Civil Engineering AITS, Timpati

DATE: 08/09/22

1. W. Males

he Head of the Department

M. Tech (HAID)

Assistant professor. of Civil Engg.

Department of Civil Engage 2017 520

EXTERNAL EXAMINER

Signature

AITS, Tirupati

#### ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

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#### DEPARTMENT OF CIVIL ENGINEERING



#### CERTIFICATE

This is to certify that the project work entitled, "ANALYSIS OF REINFORCED CONCRETE FRAMED STRUCTURE(G+15) WITH STEEL BRACING SYSTEM USING ETABS" on by T.LAYA SRI (20AK1D2003) is being submitted in partial fulfillment of the requirements for the award of the degree of MASTER OF TECHNOLOGY in STURACTURAL ENGINEERING to the Annamacharya Institute of Technology and Science, Tirupati, is are cord of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any degree or diploma.

Signature of the Supervisor

E NARASIMHULU, MTech Assistant Professor, Dept. of Civil Engineering AITS, Tirupati.

Date: 08/09/22

EXAMINER

tead of the Department

Abes. Ji Chiffehgineering

AITS, Tirupati.

**EXTERNALEXAMINER** 

# Project Report on Experimental investigation on controlled permeable formwork liner in steel fibre reinforced concrete

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

## MASTERS OF TECHNOLOGY

In

## STRUCTURAL ENGINEERING

Submitted by

## A.BALASAI KUMAR (20AK1D2001)

Under the guidance of

Dr. K.THULASI RAJAN, M.Tech (Ph.D)

Associate professor, Department of Civil Engineering



### DEPARTMENT OF CIVIL ENGINEERING

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

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Recognized under sections 2(f) & 12(B) of

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UGC Act 1956.)Tirupati- 517520.

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

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Engineers(India), KOLKATA. A-grade awarded by AP Knowledge Mission.

Recognized under sections 2(f) & 12(B) of

UGC Act 1956.)Tirupati- 517520.

#### DEPARTMENT OF CIVIL ENGINEERING



## CERTIFICATE

This is to certify that the project work entitled, "EXPERIMENTAL INVESTIGATION ON CONTROLLED PERMEABLE FORMWORK LINER IN STEEL FIBRE REINFORCED CONCRETE" on by A.BALASAI KUMAR-20AK1D2001 is being submitted in partial fulfillment the requirements for the award of the degree of MASTER OF TECHNOLOGY in STRUCTURAL ENGINEERING to the Annamacharya Institute of Technology and Science, Tirupati, is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any degree or diploma.

Signature of the Supervisor

Dr. K.THULASI RAJAN M.Tech (Ph.D)
Department of Civil Engineering
AITS, Tirupati

Signature of the Head of the Department

Mr. A.ANIL M.Tech (Ph.D.)
Department of Civil Engineeril Phati-517 520
AITS, Tirupati

## EFFECT OF SUGARCANE BAGASSE ASH (SBA) ON BEHAVIOR OF RED SOIL

Submitted to

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR.

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

## BATCHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

During the Academic year 2021-2022

Submitted By

K.SRAVANI (18AK1A0115)

S.SADIQ VALI (19AK5AO121)

V.VIJAY BHASKAR REDDY (18AK1A0125)

C.TEJASWINI (18AK1A0119)

S.HEMADRI (18AK1A0106)

Under the supervision of

Ms. T. Jahnavi (M.Tech.)
Assistant Professor
Department of Civil Engineering



ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::TIRUPATI (Affiliated to JNTUA, ANANTAPURAMU & Approved by AICTE, New Delhi)

Venkatapuram (V), Tirupati 517(A.P.)

<u>www.aits - tpt.edu.in</u> 2021 - 2022

#### DEPARTMENT OF CIVIL ENGINEERING

### ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE

Affiliated to JNTUA, ANANTAPUR & Approved by AICTE New Delhi

Venkatapuram (V), Tirupati – 517 520 (A.P)

www.aits-tpt.edu.in

**CERTIFICATE** 



This is to certify that the work contained I the report entitled "EFFECT OF SUGARCANE BAGASSE ASH (SBA) ON BEHAVIOR OF RED SOIL," is the original work done by

K. SRAVANI . (18AK1A0115)

S. SADIQ VALI (19AK5AO121)

V.VIJAY BHASKAR REDDY (18AK1A0125)

C.TEJASWINI (18AK1A0119)

S. HEMADRI (18AK1A0106)

is submitted to the faculty of Civil Engineering in partial fulfillment of the requirements for the Degree of 'BACHELOR OF TECHNOLOGY' in Civil Engineering from Jawaharlal Nehru Technology University – A Anantapur during 2021-2022.

Internal Gyide

Ms. T. Jahnavi, M. Tech.,

Assistant professor,

Department Of Civil Engineering

Date. 02/07/2022

Internal Examiner

Mr. A. And Marech (Ph.D.)

Ashtali Çivit sughod,

Department of Civil Engineering

External Examiner

Scanned with CamScanner

#### Project report on

## SUPPLY CHAIN MANAGEMENT IN CONSTRUCTION INDUSTRY

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

#### BACHELOR OF TECHNOLOGY IN

#### CIVIL ENGINEERING

Submitted by

P. KRISHNA KUMAR	19AK5A0154
M. GURRAPPA	19AK5A0145
Y. DINESH	19AK5A0144
G. LOKESH REDDY	19AK5A0156
N.V. PREM KUMAR	19AK5A0180
M.LAKSHMI NARAYANA REDDY	19AK5A0155

Under the esteemed guidance of

S. UMASHANKARI, M. Tech Assistant professor, Civil Engineering



#### CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(AUTONOMOUS)

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## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

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Civil engineering



#### CERTIFICATE

This is to certify that the project work entitled, "SUPPLY CHAIN MANAGEMENT IN CONSTRUCTION INDUSTRY", done by P. KRISHNA KUMAR (19AK5A0154), M. GURRAPPA (19AK5A0145), Y. DINESH (19AK5A0144), G. LOKESH REDDY (19AK5A0156), N.V. PREM KUMAR (19AK5A0180), M.LAKSHMI NARAYANA REDDDY (19AK5A0155) is being submitted in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING to Annamacharya Institute of Technology and Sciences, Tirupati, is a record of bonified work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

Signature of the supervisor

S. UMASHANKARI, M. Tech

Assistant professor

Civil Engineering

Signature of the Bead of the Department

HEAD

A. Dept. of Each Chaddle ALTS: Litypatis 517 520

Civil Engineering

DATE: 02-07-2022 INTERNAL EXAMINER

EXTERNAL EXAMINER

## Project reporton

## STABILIZATION OF BLACK COTTON SOIL BY USING GGBS AND GRANITE DUST

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

## BACHELOR OF TECHNOLOGY CIVIL ENGINEERING

Submitted by

19AK5A0136 G. BHANU PRASAD 19AK5A0132 V. ANAND 19AK5A0138 K. BHARGHAV 19AK5A0152 U. JYOTHISH KUMAR

Under the esteemed guidance of

P. HARISH, M.Tech

Assistant professor, Department of Civil Engineering



## DEPARTMENT OF CIVIL ENGINEERING

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

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## **CERTIFICATE**

This is to certify that the project work entitled, "STABILIZATION OF BLACK COTTON SOIL BY USING GGBS AND GRANITE DUST", done by

G. BHANU PRASAD

19AK5A0136

V. ANAND

19AK5A0132

K. BHARGHAV

19AK5A0138

U. JYOTHISH KUMAR

19AK5A0152

is being submitted in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING to Annamacharya Institute of Technology and Sciences, Tirupati, is a record of bonafied work carried out by them under my guidance and supervision.

Signature of the supervisor

P. HARISH

AsstProfessor

CivilEngineering

Signature of the Head of the Department

A. HEAD

Dept. of Civil Engg.

CivilEngineering

DATE: 02/07/22

INTERNALEXAMINER

EXTERNALEXAMINER

## A PROJECT REPORT

ON

# "EVALUATING THE HEAT OF HYDRATION IN DIFFERENT GRADES OF CONCRETE"

Submitted to

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR.

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

# BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

During the Academic year 2021-2022

Submitted By

T.THIRUMALA REDDY

(19AK5A0177)

K.CHAITHANYA KUMAR

(19AK5A0139)

P.PETER

(19AK5A0161)

V.SAI HARI KRUPA

(19AK5A0167)

C.SINDHU

(19AK5A0171)

Under the supervision of

K SAI ABHINAV, M.Tech [Ph.D.]

Assistant professor,

Department of Civil Engineering



DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::TIRUPATI

Affiliated to JNTUA, ANANTAPURAMU & Approved by AICTE, New Delhi Venkatapuram (V), Tirupati 517520 (A.P.)

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## DEPARTMENT OF CIVIL ENGINEERING

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE

Affiliated to JNTUA, ANANTAPUR & Approved by AICTE New DelhiVenkatapuram
(V), Tirupati – 517 520 (A.P)

www.aits-tpt.edu.in

CERTIFICATE



This is to certify that the work contained I the report entitled ",EVALUATING THE HEAT OF HYDRATION IN DIFFERENT GRADES OF CONCRETE" is the original work done by

T.THIRUMALA REDDY	(19AK5A0177)
K.CHAITHANYA KUMAR	(19AK5A0139)
P.PETER .	(19AK5A0161)
V.SAI HARI KRUPA	(19AK5A0167)
C.SINDHU	(19AK5A0171)

Is submitted to the faculty of Civil Engineering in partial fulfillment of the requirements for the Degree of "BACHELOR OF TECHNOLOGY" in Civil Engineering" from Jawaharlal Nehru

Technology University - A Anantapur during 2021-2022.

Internal Guide

K SAI ABHINAV, M. Tech [Ph.D.]

Assistant professor,

Department of Civil Engineering,

A.I.T.S, TPT.

flead of the Department HEAD

Apent More Girm Engs.

AITS, Tirupati-517 520

HOD, Assistant professor,

Department of Civil Engineering,

A.I.T.S, TPT.

Date 02-07-2022

Internal Examiner

External Examiner

#### PROJECT REPORT

ON

## AN EXPERIMENTAL INVESTIGATION ON GEO POLYMER BRICKS Submitted to

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR.

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

#### BATCHELOR OF TECHNOLOGY IN

#### CIVIL ENGIEERING

During the Academic year 2021-2022

Submitted By

G. PAVAN KUMAR	19AK5A0159
K. PRAVEEN	19AK5A0163
O. BHARATH	19AK5A0137
CH. VINAY KUMAR	19AK5A0181
S. VAMSI KRISHNA VISHAL	19AK5A0178

Under the supervision of

A. KALPANA, MTech Assistant Professor, Department of Civil Engineering,



#### DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::TIRUPATI
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New Delhi, Venkatapuram (V), Tirupati 517520

(A.P.) www.aits - tpt.edu.in 2021 - 2022

## CERTIFICATE

## DEPARTMENT OF CIVIL ENGINEERNG

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE

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Delhi Venkatapuram (V), Tirupati - 517 520 (A.P)

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This is to certify that the work contained I the report entitled 
"AN EXPERIMENTAL INVESTIGATION OF GEOPOLYMER BRICKS"

is the original work done by

G. PAVAN KUMAR (19AK5A0159)

K. PRAVEEN (19AK5A0163)

O. BHARATH (19AK5A0137)

CH. VINAY KUMAR (19AK5A0181)

S. VAMSI KRISHNA VISHAL (19AK5A0178)

Is submitted to the faculty of Civil Engineering in partial fulfilment of the requirements for the Degree of "BACHELOR OF TECHNOLOGY" in Civil Engineering" from Jawaharlal Nehru Technology University – A Anantapur during 2020-2021.

Internal Guide

A.KALPANA, MTech,

Assistant professor,

Department of Civil Engineering, A.I.T.S, TPT.

Head of the Department

A ANIL, MTech Phd Dept. of Civil Engg.

HOD Departmen AFT Engineting 17 520

A.I.T.S,TPT.

#### A PROJECT REPORT

ON

"CONVERSION OF ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (TIRUPATI) INTO GREEN BUILDING"

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR.

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

BACHELOR OF TECHNOLOGY IN

## CIVIL ENGINEERING

During the Academic year 2021-2022

## Submitted By

G. SOMASEKHAR	(19AK5A0172)
G. S. SHANMUGA SRINIVASULU REDDY	(19AK5A0168)
D. SREEKANTH	(19AK5A0173)
The state of the	(19AK5A0148)
G. HEMANTH KUMAK	(19AK5A0166)
P. RAVI CHANDRA	1

Under the supervision of

P. Vishnu priya, M.Tech, Assistant professor, Department of Civil Engineering



DEPARTMENT OF CIVIL ENGINEERING
ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES: TIRUPATI
Affiliated to JNTUA, ANANTAPURAMU & Approved by AICTE,
New DelhiVenkatapuram (V), Tirupati 517520 (A.P.)

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#### DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE
Affiliated to JNTUA, ANANTAPUR & Approved by AICTE New Delhi
Venkatapuram (V), Tirupati – 517 520 (A.P)

main (v), 111upau – 317 320 (A

www.aits-tpt.edu.in

#### CERTIFICATE



This is to certify that the work contained I the report entitled, "CONVERSION OF ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (TIRUPATI) INTO GREEN BUILDING" is the original work done by

G. SOMASEKHAR	(19AK5A0172)
G. S. SHANMUGA SRINIVASULU REDDY	(19AK5A0168)
D. SREEKANTH	(19AK5A0173)
G. HEMANTH KUMAR	(19AK5A0148)
P. RAVI CHANDRA	(19AK5A0166)

Is submitted to the faculty of Civil Engineering in partial fulfillment of the requirements for the Degree of "BACHELOR OF TECHNOLOGY" in Civil Engineering" from Jawaharlal Nehru Technology University – A Anantapur during 2021-2022.

Internal Guide

P. Vishnu priya, M.Tech

Assistant professor,

Department of Civil Engineering,

A.I.T.S, TPT.

Head of the Department

(10 A Y/E A 0177)

A.Anil, M.Tech [Ph.D.] HEAD

HDEPAssisain professor, AITS, Tirupati-517 520 Department of Civil Engineering,

A.I.T.S, TPT.

External Examiner

Date 02/07/2022

Scanned with CamScanner

#### A Project report on

# STUDY ON PROPERTIES OF CONCRETE WITH IRON SLAG

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

#### BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

Submitted by

S .DHANUSH KUMAR	19AK5A0142
R. ACHYUTH	19AK5A0130
T. DAMODARAM	19AK5A0141
K.SRINIVASULU	19AK5A0174
M.SUMANTH	19AK5A0175

Under the esteemed guidance of
P.DHANABAL, M.Tech
Assistant professor, Department of Civil Engineering



#### DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

(Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Mission. Recognized under sections 2(f)& 12(B) of UGC Act 1956.) Tirupati- 517520.



## CERTIFICATE

This is to certify that the project work entitled, "STUDY ON PROPERTIES OF CONCRETE WITH IRON SLAG", done by

S.DHANUSH KUMAR

19AK5A0142

R. ACHYUTH

19AK5A0130

T. DAMODHARAM

19AK5A0141

K.SRINIVASULU

19AK5A0174

M.SUMANTH

19AK5A0175

is being submitted in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING to Annamacharya Institute of Technology and Sciences, Tirupati, is a record of bonafied work carried out by them under my guidance and supervision.

Signature of the supervisor

P.DHANABAL

AsstProfessor

Civil Engineering

Signature of the Head of the Department

Dept. of Civil Engg. AITS ATT DIP TO TESSOR

CivilEngineering

DATE: 02/07/11

INTERNALEXAMINER

EXTERNALEXAMINER

## A PROJRCT REPORT ON TRAFFIC SPOT SPEED STUDIES AT SRINIVASA SETU

Submitted to

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERCITY ANANTAPUR, ANANTAPURAMU.

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

### **BACHELOR OF TECHNOLÓGY**

IN

#### **CIVIL ENGINEERING**

During the academic year 2021-2022

Submitted By

P. SUSHMA	(18AK1A0117)
B. SAGAR NAIK	(19AK5A0122)
K. SABEENA	(18AK1A0111)
B. SIVA SAI	(18AK1A0114)
S. SANDEEP	(18AK1A0112)

Under the Supervision of

S. SAMEER M.TECH.

Assistant professor, Department of Civil Engineering,



## DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Affiliated to JNTUA, ANANTAPURAMU & Approved by AICTE, New Delhi

Venkatapuram (V), Tirupati-517520{A.P.)
www.aits-tpt.edu.in

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES Affiliated to JNTUA, ANANTAPURAMU & Approved by AICTE, New Delhi

Venkatapuram (V), Tirupati-517520{A.P.) www.aits-tpt.edu.in

## **CERTIFICATE**



This is to certify that the project entitled "TRAFFIC SPOT SPEED STUDIES AT SRINIVASA SETU" is a bonafide work done by the Under my supervision and guidance, in partial fulfilment of the requirement for The award of the "Bachelor of Technology in Civil Engineering" during the Academic year 2021-2022

#### Submitted By

P. SUSHMA	(18AK1A0117)
B. SAGAR NAIK	(19AK5A0122)
K. SABEENA	(18AK1A0111)
B. SIVA SAI	(18AK1A0114)
S. SANDEEP	(18AK1A0112)

Internal Guide

S. SAMEER M. TECH

Assistant Professor,

Department of Civil Engineering.

Head of the Department

AITS, Tirupati-517.520.
Department of Civil, Engineering

A.I.T.S, TPT.

Date: 2-07-2020

Scanned with CamScanner

On

## "DESIGN & CONSTRUCTION OF GRAVITY DAM(MINIATURE) BY USING HIGH-STRENGTH CONCRETE"

Submitted to

### IAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR.

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

## BACHELOR OF TECHNOLOGY IN

CIVIL ENGINEERING

During the Academic year 2021-2022

Submitted By

S. SHARUKH ALI (19AK5A0170)
M. DILLIRANI (19AK5A0143)
T. HARISH (19AK5A0146)
J. HARSHITHA (19AK5A0147)
S. JABBAR (19AK5A0150)

Under the supervision of

Anil, M.Tech [Ph.D.] HOD, Assistant professor, Department of Civil Engineering



#### DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::TIRUPATI
Affiliated to JNTUA, ANANTAPURAMU & Approved by AICTE, New Delhi
Venkatapuram (V), Tirupati 517520 (A.P.)

www.aits - tpt.edu.in

## DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE Affiliated to JNTUA, ANANTAPUR & Approved by AICTE New Delhi Venkatapuram (V), Tirupati – 517 520 (A.P)

www.aits-tpt.edu.in

## **CERTIFICATE**



This is to certify that the work contained I the report entitled ", DESIGN & CONSTRUCTIONOF GRAVITY DAM (MINIATURE) BY USING HIGH-STRENGTH CONCRETE" is the original work done by

S. SHARUKH ALI	(19AK5A0170)
M. DILLIRANI	(19AK5A0143)
T. HARISH	(19AK5A0146)
J. HARSHITHA	(19AK5A0147)
S. JABBAR	(19AK5A0150)

Is submitted to the faculty of Civil Engineering in partial fulfillment of the requirements for the Degree of "BACHELOR OF TECHNOLOGY" in Civil Engineering" from Jawaharlal Nehru Technology University – A Anantapur during 2021-2022.

A.Anil, M.Tech [Ph.D.]

HOD, Assistant professor,

Department of Civil Engineering,

A.I.T.S, TPT.

Head of the Department

A.Anil, M.Tech [Ph.D.]

HOD, Assistate professor,
Dept. of Civil Engg.
Deptition patition of the professor,

A.I.T.S, TPT.

Date 02-07-2012

External Examiner

#### A PROJECT REPORT

ON

# "PRELIMINARY INVESTIGATION ON HIGH STRENGTH CONCRETE BY USING GGBS AND SILICA FUME"

Submitted to

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANŢAPUR.

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

## BATCHELOR OF TECHNOLOGY IN

**CIVIL ENGIEERING** 

During the Academic year 2020-2021

Submitted By

M.BASAVARAJU

(19AK5A0135)

N.VEERENDRA

(19AK5A0179)

M.NAVEEN

(19AK5A0158)

**G.PRAVEEN KUMAR** 

(19AK5A0164)

R.VISWANATH

(19AK5A0157)

Under the supervision of

D.Nirosha, M.Tech(Ph.D)

Assistant Professor,

Department of Civil Engineering.



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

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::TIRUPATI
Affiliated to JNTUA, ANANTAPURAMU & Approved by AICTE,
New Delhi Venkatapuram(V), Tirupati 517520 (A.P.)

www.aits - tpt.edu.in 2021 - 2022

## DEPARTMENT OF CIVIL ENGINEERING

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE

Affiliated to JNTUA, ANANTAPUR & Approved by AICTE New Delhi Venkatapuram (V),

Tirupati - 517 520 (A.P) www.aits-tpt.edu.in

## **CERTIFICATE**



This is to certify that the work contained I the report entitled ", PRELIMINARY INVESTIGATION ON HIGH STRENGTH CONCRETE BY USING GGBS AND SILICA FUME" is the original work done by

M.BASAVARAJU (19AK5A0135)

N.VEERENDRA (19AK5A0179)

M.NAVEEN (19AK5A0158)

G.PRAVEEN KUMAR (19AK5A0164)

R.VISWANATH (19AK5A0157)

Is submitted to the faculty of Civil Engineering in partial fulfillment of the requirements for the Degree of "BACHELOR OF TECHNOLOGY" in Civil Engineering" from Jawaharlal Nehru Technology University – A Anantapur during 2021-2022.

Internal Guide

D.Nirosha, M.Tech (Ph.D)

Assistant professor,

Department of Civil Engineering,

A.I.T.S, TPT.

Date 8-17-2022

Head of the Albartment Dept. of Civil Engg. AITS, Thupati 510 520

HOD, Assistant professor,

Department of Civil Engineering,

A.I.T.S, TPT

External Examiner

#### A Project report on

# EXPERIMENTAL INVESTIGATION ON THE PROPERTIES OF RECYCLED COARSE AGGREGATE CONCRETE

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

#### BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

#### Submitted by

H. SAJIYA SULTHANA

A. KRISHNA TEJA

G. SAI

W. CHANDAN VENKAT SAI

D. NAVEEN

19AK5A0123

19AK5A0103

17AK1A0127

Under the esteemed guidance of

B. BABY, M. Tech

Assistant professor, Department of Civil Engineering



## DEPARTMENT OF CIVIL ENGINEERING

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

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## CERTIFICATE

This is to certify that the project work entitled, "EXPERIMENTAL INVESTIGATION ON THE PROPERTIES OF RECYCLED COARSE AGGREGATE CONCRETE", done by

H. SAJIYA SULTHANA

19AK5A0124

A. KRISHNA TEJA

19AK5A0111

G. SAI

19AK5A0123

W. CHANDAN VENKAT SAI

19AK5A0103

D. NAVEEN

17AK1A0127

is being submitted in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING to Annamacharya Institute of Technology and Sciences, Tirupati, is a record of bonafied work carried oùt by them under my guidance and supervision.

B. Baby Signature of the supervisor

B. BABY

**Asst Professor** 

Civil Engineering

Signature pl the Held Apthe Department

Dept. of Civil Engg.

Asst Professor

Civil Engineering

DATE: 02/07/2022 INTERNAL EXAMINER

MUTHAL EXAMINER

#### Project report on

## "ANALYSIS & DESIGN OF EARTHQUAKE RESISTANT BUILDING USING STAAD.Pro"

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

## **BACHELOR OF TECHNOLOGY**

#### IN

## CIVIL ENGINEERING

(During the academic year 2021-2022)

### Submitted By

T. TEJASWI - 18AK1A0118

P. BHUVAN TEJA - 18AK1A0104

M.RANJITH - 18AK1A0110

V.VIGNESH - 18AK1A0124

C.BRAMHA KUMAR - 18AK1A0105

Under the esteemed guidance of

MEENU SRI PRIYA M. Toth,

Asst professor, Civil Engineering



Annamacharya Institute of Technology & Sciences, Tirupati (Autonomous)

Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu.

Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi.

Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Institution of Engineers (India), KOLKATA.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES, TIRUPATI (AUTONOMOUS)

(Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi. Accredited by NAAC with 'A'

Department of Civil Engineering 2018-2022



## CERTIFICATE

This is to certify that the project titled "ANALYSIS & DESIGN OF AN EARTHQUAKE RESISTANT BUILDING USING STAAD.Pro" is being

### submitted by

T. TEJASWI - 18AK1A0118

P. BHUVAN TEJA - 18AK1A0104

M.RANJITH - 18AK1A0110

V.VIGNESH - 18AK1A0124

C.BRAMHA KUMAR - 18AK1A0105

in B. Tech CIVIL ENGINEERING is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

Meene Se priss

Mrs. MEENU SRI PRIYA M.T. A. Assistant Professor, Civil Engineering

AITS TIRUPATI

HEAD OF THE DEPARTMENT

OTHER AND M. Tech, (Ph.D.)

Alterstant Professor Factor agine ering

ITAQUALITY REMAQUATE

Submitted for the University viva-voice Examination held on\_

2/07/2028

INTERNAL EXAMINER

EXTERNAL EXAMINER

#### A PROJECT ON

## "EXPERIMENTAL INVESTIGATION ON FLY ASH BRICKS USING SUGARCANE FIBER AND STONE DUST"

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR.
In partial fulfillment of the requirements for the award of the degree of

## BATCHELOR OF TECHNOLOGY IN

#### CIVIL ENGIEERING

During the Academic year 2021-20220

#### Submitted By

U. SURESH		18AK1A0116
N. VAISHNAVI	<b>.</b> .	18AK1A0122
V. SATHISH	-,	18AK1A0113
M. BALA MANIKANTA	_	18AK1A0101
K. PRASANTH KUMAR		18AK1A0108

Under the supervision of

## Sri P. NARENDRA REDDY, M.Tech,

Assistant Professor,
Department of Civil Engineering



# DEPARTMENT OF CIVIL ENGINEERING ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES: TIRUPATI

Affiliated to JNTUA, ANANTAPURAMU & Approved by AICTE, New Delhi Venkata Puram (V), Tirupati 517520 (A.P.)

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2021 - 2022

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS) & TIRUPATI

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Anantapuramu. TwoB. Tech Programmers (CSE & ECE) are accredited by NBA,
New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by
Institution of Engineers (India), KOLKATA.A-grade awarded by AP.Knowledge
Mission. Recognized under sections 2(f)&12(B) of UGC Act1956.)
Tirupati- 517520.



This is to certify that the project work entitled, "EXPERIMENTAL INVESTIGATION ON FLYASH BRICKS USING SUGAR CANE FIBERS AND STONE DUST" done by U. SURESH (18AK1A0116), N.VYSHNAVI (18AK1A0122), V. SATHISH (18AK1A0113), M.BALA MANIKANTA (18AK1A0101), K. PRASANTH KUMAR (18AK1A0108) is being submitted in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING to Annamacharya Institute of Technology and Sciences, Tirupati, is a record of benefited work carried out by the under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

Signature of the supervisor

Sri P. NARENDRAREDDY, M.Tech,

Assistant Professor

Civil Engineering

ignature of the Head of the Department

Mr. A.ANIL M. Tech. (Ph.D.), A. Dent, of Civil Engg.

AITS Tirupati-517 520 Civil Envineering

DATE: 02-07-2022

INTERNAL EXAMINER

EXTERNAL EXAMINER

#### A PROJECT REPORT ON

# EXPERIMENTAL INVESTIGATION OF CONTROLLED PERMEABLE FORMWORKLINER ON THE MECHNICAL PROPERTIES OF 'GEOPOLYMER CONCRETE'

Submotted in

#### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANNATAPUR

In parties fulfillness of the remirements for the around of degree of

### BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

#### Submitted by

MODAMDARULU UMESH	18AK1A0121
PALYAM NARASIMHA	18AK1A0107
VONTERU BALA VENKATA SAI	18AK1A0102
PEETALA THARUN TEJA	18AK1A0120
ERIKALA MUNGA DAYANANDA	19AK5A0105

Under the esteemed guidance of Dr. K. THULASIRAJAN, M. Tech, Ph.D., Associate Professor, Civil Engineering



#### CIVIL ENGINEERING

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

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## CIVIL ENGINEERING



#### Certificate

This is to certify that the project work entitled, "A PROJECT REPORT ON EXPERIMENTAL INVESTIGATION OF CONTROLLED PERMEABLE FORMWORK LINER ON THE MECHNICAL PROPERTIES OF GEOPOLYMER CONCRETE", done by M. UMESH (18AK1A0121), P. NARASIMHA (18AK1A0107), VONTERU BALA VENKATA SAI (18AK1A0102), P. THARUN TEJA (18AK1A0120),

EM. DAYANADHA (19AK5A0105) is being submitted in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING to the Annamacharya institute of technology and sciences, Tirupati, is a record of bonafide work carried out by the under my guidance and supervision. the results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

Signature of the supervisor

Dr. K. THULASIRAJAN, M. Tech, Ph.D., Associate Professor, Civil Engineering Signature of the Horal the department

Dept. of Civil Engg. Mr. A. ANIL, M. Tech. (Ph.D.), AITS Tirupati-5.17520 Assistant Professor, Civil Engineering

DATE: 2/7/2022

ktaling-INTERNAL EXAMINER EXTERNAL EXAMINER

#### A PROJECT REPORT

ON

### "BEHAVIOUR AND STABILITY ANALYSIS OF THE REINFORCED (GEOGRID) EARTH RETAINING WALL BY USING PLAXIS-2D"

Submitted to

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR.

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

#### BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

During the Academic year 2021-2022

Submitted By

M.KIRAN KUMAR

: 19AK5A0110

R. MARUTHI VARAPRASAD REDDY: 19AK5A0112

P. PAVAN SAI

: 19AK5A0114

**C.PREMENDRANATH** 

: 19AK5A0118

M.SRIKANTH

: 19AK5A0127

Under the supervision of

#### A. MADAN MOHAN, M. Tech

Assistant professor,
Department of Civil Engineering.



#### DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::TIRUPATI

Affiliated to JNTUA, ANANTAPURAMU & Approved by AICTE, New Delhi Venkatapuram (V), Tirupati 517520

(A.P.)

www.aits - tpt.edu.in

2021-2022



This is to certify that the work contained I the report entitled "BEHAVIOUR AND STABILITY ANALYSIS OF THE REINFORCED (GEOGRID) EARTH RETAINING WALL BY USING PLAXIS -2D" is the original work done by

M.KIRAN KUMAR

: 19AK5A0110

R. MARUTHI VARAPRASAD REDDY: 19AK5A0112

P. PAVAN SAI

: 19AK5A0114

**C.PREMENDRANATH** 

: 19AK5A0118

**M.SRIKANTH** 

: 19AK5A0127

Is submitted to the faculty of Civil Engineering in partial fulfillment of the requirements for the Degree of "BACHELOR OF TECHNOLOGY" in Civil Engineering" from Jawaharlal Nehru Technology University – A Anantapur during 2021-2022

Signature of the supervisor

A. MADAN MOHAN

**Asst Professor** 

Civil Engineering

Signature of the Head of the Department

Dept. of Qivil Engg. AITS Tipposti-517 520

Civil Engineering

DATE: 02/07/22

INTERNAL EXAMINER

EXTERNAL EXAMINER

Scanned with CamScanner

#### SURVEY CAMP

#### EXPERIENCEING ENGINEERING SURVEY

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

#### BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

Submitted by

M GANESH

19AK1A0107

J HEMAVATHI

19AK1A0108

G JAGADEESWAR REDDY 19AK1A0109

40 1774 10400

P JANARGDHAN

19AK1A0110

T JASWANTH

19AK1A0111

R JAYANTH

19AK1A0112

Under the esteemed guidance of
E. NARASIMHULU, M.Tech
Assistant professor, Department of Civil Engineering



#### DEPARTMENT OF CIVIL ENGINEERING

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)

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2022-2023



This is to certify that the project work entitled, "EXPERIENCING ENGINEERING SURVEY", done by

M GANESH

19AK1A0107

J HEMAVATHI

19AK1A0108

G JAGADEESWAR REDDY 19AK1A0109

P JANARGDHAN

19AK1A0110

T JASWANTH

19AK1A0111

R JAYANTH

19AK1A0112

is being submitted in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING to Annamacharya Institute of Technology and Sciences, Tirupati, is a record of bonafied work carried out by them under my guidance and supervision.

Signature of the supervisor

E. NARASIMHULU M.Tech

**Assistant Professor** 

Department of Civil Engineering

AITS, Tirupati.

Signature of the Head of the Department

A. ANILM. Tech, (Ph.D)

**Assistant Professor** 

Department of Civil Engineering

AITS, Tirupati.

A Report on SURVEY CAMP

#### **EXPERIENCEING ENGINEERING SURVEY**

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

#### BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

Submitted by

A JAYANTHI 19AK1A0113

Y JAYAPRIYA 19AK1A0114

D KALAVATHI 19AK1A0115

D LAKSHMIKAR 19AK1A0116

V MANASA 19AK1A0117

P MUNI KRISHNA 19AK1A0118

Under the esteemed guidance of
E. NARASIMHULU, M.Tech
Assistant professor, Department of Civil Engineering



#### DEPARTMENT OF CIVIL ENGINEERING

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)



This is to certify that the project work entitled, "EXPERIENCING ENGINEERING SURVEY", done by

A JAYANTHI

19AK1A0113

Y JAYAPRIYA

19AK1A0114

**D KALAVATHI** 

19AK1A0115

D LAKSHMIKAR

19AK1A0116

**V MANASA** 

19AK1A0117

P MUNI KRISHNA

19AK1A0118

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Signature of the supervisor

E. NARASIMHULU M.Tech

**Assistant Professor** 

Department of Civil Engineering

AITS, Tirupati.

Signature of the Head of the Department AITS, Tirupati-517 520
A. ANIL<sub>M.Tech</sub>, (Ph.D)

**Assistant Professor** 

Department of Civil Engineering

#### SURVEY CAMP

#### **EXPERIENCEING ENGINEERING SURVEY**

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

#### BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

Submitted by

I NIRANJAN REDDY 19AK1A0119

PRAKASH VIVEK 19AK1A0121

G PREMA KUMARI 19AK1A0122

P PURUSHOTHAM 19AK1A0123

D RAJU : 19AK1A0124

P REDDY VEERA BHARTH 19AK1A0125

Under the esteemed guidance of E. NARASIMHULU, M. Tech

Assistant professor, Department of Civil Engineering



#### DEPARTMENT OF CIVIL ENGINEERING

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (AUTONOMOUS)



This is to certify that the project work entitled, "EXPERIENCING ENGINEERING SURVEY", done by

I NIRANJAN REDDY

19AK1A0119

PRAKASH VIVEK

19AK1A0121

G PREMA KUMARI

19AK1A0122

P PURUSHOTHAM

19AK1A0123

D RAJU

19AK1A0124

P REDDY VEERA BHARTH 19AK1A0125

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Signature of the supervisor

E. NARASIMHULU M.Tech

**Assistant Professor** 

Department of Civil Engineering AITS, Tirupati.

Signature of the Head of the Department

A. ANIL<sub>M.Tech, (Ph.D)</sub>

**Assistant Professor** 

Department of Civil Engineering

#### SURVEY CAMP

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19AK1A0126

K SAI RITHVIK REDDY

19AK1A0127

S SAI SRINIVAS

19AK1A0128

G SANDEEP KUMAR REDDY

19AK1A0129

**PSARALA** 

19AK1A0130

SHAIK MOHAMMED JAHEERUDDIN

19AK1A0131

Under the esteemed guidance of
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A SRI SAI 19AK1A0134
P SUREKHA 19AK1A0135
M SURENDRA NAIDU 19AK1A0136
G THARUN 19AK1A0137

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## A Report on SURVEY CAMP

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C VENKATESWARULU 19AK1A0140

N VIJAY KUMAR 19AK1A0141

K VINAY 19AK1A0142

VINAY KAMATHAM 19AK1A0143

T VIVEKANANDA 19AK1A0144

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19AK1A0145

A YOGASREE

19AK1A0146

17AK1A0103

Under the esteemed guidance of
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**B CHANDU PRASANTH REDDY** 

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K CHIRU KALYAN

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P JAHNAVI 20AK5A0115
V JITHENDRABABU 20AK5A0116
K KRANTHIMAI 20AK5A0117
G MADHAN 20AK5A0118

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B YUGANDHAR	÷	20AK5A0148
SENDIL KUMAR MURALI KRISHNA		20AK5A0149

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1.3.4\_CE\_file no:3-Report of the field visit / sample photographs of the field projects

## Report of the field visit / sample photographs of the field projects

#### DEPARTMENT OF CIVIL ENGINEERING

#### Community Service project

Second year civil Engineering student's undergone Community Service project. Community service is donated service is performed by our students for the benefit of public institutions the community of Venkatapuram village was cleared of dirty and also provided the Water Filtration techniques conducted soil and water testing and filtration techniques used for water treatment and also road rehabilitation techniques for repairing of roads by students of Civil Engineering students, Annamacharya Institute of Technology & Sciences, Tirupati.

#### Water Collection & Water Testing & Filtration Technique awareness





Socially relevant project

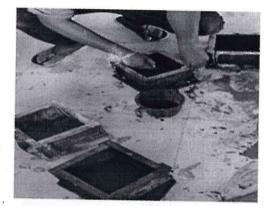
Third year Civil Engineering students undergone socially relevant project which helps them to enhance the knowledge on pollution and environmental related issues, waste replacement and energy saving green building concepts ect..



#### Field Project

Final year civil engineering student's undergone field projects in their core subject area like determination if fresh and hardened properties of concrete, environmental engineering related projects and traffic volume related projects

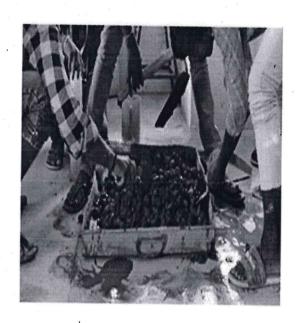


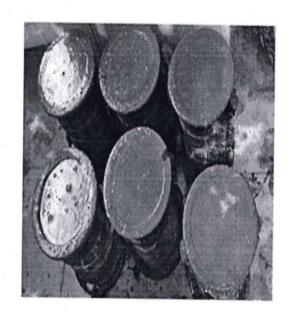


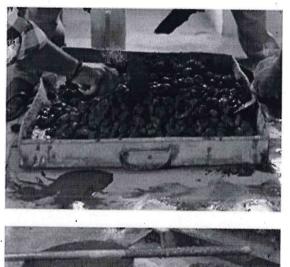




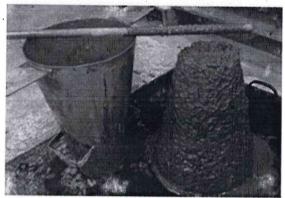
























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DepartmentofCivilEngineering 217520.



**CEKTIFICATE** 

and supervision. The results embodied in this project report have not been Science, Tirupati, is are cordofon a fide work carried out by the munder myguidance ERING to the Annamacharya Institute of Technology and thedegreeofBACHELOROFTECHNOLOGYinDepartmentofCIVILENGINE the award of 20AK5A0143) is being submitted in partial fulfilment of the requirements for MUZAHIDDIN (20AKSA0134), M.V. PRAVEEN KUM ( (20AK5A0112), N. BRAMHANANDHA REDDY(20AK5A0122), S. WASTE, Done by S. CHARAN (20AKSA0105), A. GAYATHRI PREPARATION OF CONCRETE USING GOLD MINE Thisistocertifythattheprojectwork entitled as the,

submittedtoany otheruniversity orinstitutefortheaward ofanydegreeordiploma.

SRI MR.A.AL Signature of the Head of the department

O, Tirupati P. 7 K90 De Head of Chie

EXTERNALEXAMINER

DATE: 22-08-22 INTERNALEXAMINER

department, Departmentofcivilengineering

ASSISTANTPROFRSSOR

MR, E, NARASIMHULU

Signatureof the Supervisor

#### ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

#### (SUOMONOTUA)

(Approved by AICTE, New Delhi & Permanent Affiliation to INTUA, Anantapuram. Two B. Tech Programmers (CSE & ECE) are accredited by MBA, New Delhi. Accredited by MAAC with 'A' Grade, Bangalore. Accredited by Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Mission. Recognized under sections 2(f) & 12(B) of UGC Act 1956.) Tirupati- 517520.



#### **CERTIFICATE**

This is to certify that the project work entitled, "SOLUTION TO ECOLOGICAL-HYDROLOGICALPROCESSES IN ARID ENVIRONMENT" done by G.NEVIL C.DHANASEKHAR TEJA (20AK5A0108), B.SUDHEER (20AK5A0121), G.MADHAN (20AK5A0118), ENGINEERING to Annamacharya Institute of Technology and Sciences, Tirupati, is a record of bonafied work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

Associate. Professor, Civil Engineering	Asignat. Polessor, 517 520 Civit Enginization
Dr. K. Thulasirajan M.Tech. Ph.d	A.Anil HEAD A.A. II. Engg.
Signature of the Supervisor	Head of the Department
They all	

DATE: 30-06-22-

EXTERNAL EXAMINER

INTERNAL EXAMINER

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES::TIRUPATI

Venkatapuram(V), Karakambadi(Po), Renigunta(M), Tirupati-517520, A.P. (BUOMONOTUA)

## DEPARTMENT OF CIVIL ENGINEERING



## **CERTIFICATE**

Civil Engineering from Jawaharlal Nehru Technological University-A, Ananthapur during the partial fulfilment of the requirements for the Degree of BACHELOR OF TECHNOLOGY in NO. 20AKSA0138, Submitted to the department of Computer Science and Engineering, in KEC NO. 20AKSA0118, C. Dhana shekhar Teja, REG NO. 20AKSA0108, B. Sudheer REG kumar, REG NO. 20AK5A0124, G. Muni gangadhar, REG NO. 20AK5A0121, G. Madhan, "Effective utilization of Construction and demolition waste in Tirupati", done by G. Nevil Certified that this is a bonafide record of the socially relevant project report entitled,

year 2019-2023.

Deptessent Elvariants of CE, 217, Dept. of CE, 217, Dept. of CE, Mr A. Anil, Militaly (Bh.Dy)

Faculty Cordinator

HaquriT, 2TIA

Date: 30-06-22-

Place: Tirupathi.

## (SUOMONOTUA) VANAAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Mission. Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi. (Approved by AICTE, New Delhi & Permanent Affiliation to JUTUA,

Recognized under sections 2(f) & 12(B) of UGC Act 1956.) Tirupati-517520.

CIAIT ENCINEERING

## **CERTIFICATE**

suffilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in WASTE MATERIALS", done by 20AKSA0(106,109,119,131,139) is deing submitted in partial This is to certify that the project work entitled, "GREEN SMART BUILDING BY USING

CINIT ENGINEERING

been submitted to any other university or institute for the award of any degree or diploma. out by them under my guidance and supervision. The results embodied in this project report have not to the Annamacharya Institute of Technology and Science, Tirupati, is a record of bonafide work carried

7

MR.A.AUL Signature of the Head of the Department

T.SAI KRISHNA Signature of the Supervisor

(Asst Pro.M-Tech)

(Asst Pro. M-Tech)

INTERNAL EXAMINER

DATE: 30-06-22

#### (SUOMONOTUA) ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by MBA, New Delhi. (Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA,

Recognized under sections 2(f) & 12(B) of UGC Act 1956.) Tirupati- 517520. Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Mission.

CINIT ENGINEERING



#### **CERTIFICATE**

AMAIN OF THE DESIRE OF BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING 20AK5A0(106,109,119,131,139) is deing submitted in partial fulfillment of the requirements for the DROUGHT MONITORING, DECLARATION AND MANAGEMENT IN INDIA", done by This is to certify that the project work entitled, "REVIEW AND ANALYSIS OF

have not been submitted to any other university or institute for the award of any degree or diploma. carried out by them under my guidance and supervision. The results embodied in this project report to the Annamacharya Institute of Technology and Science, Tirupati, is a record of bonafide work

A.AUIL Signature of the Head of the Department

Dept. of Civil Engg. (Asst Prominent)

AITS, Tirupati-517 520

INTERNAL EXAMINER

30-08-55 DATE:

(Asst Prof. M.Tech)

T.SAI KRISHNA

Signature of the Supervisor

Project Report on

## **KECACTING VND KENZE OF BUILDING MATERIALS**

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

# CIAIT ENGINEERING IN BYCHETOK OF TECHNOLOGY

Submitted by

50VK2V0140 50VK2V0135 50VK2V0110 50VK2V0101 AVBON KOWVE BEDDY SHANIVARAPU SHAIK KHAJA HUSSEN JITHENDRABABU VELURU ANJALI VARIKOLLA

UMASHANKARI.S, ASSISTANT PROFESSOR



DEPARTMENT OF CIVIL ENGINEERING

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu. Two B. Tech Programs (CSE & ECE) are accredited by NBA, New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Institution of Engineers (India) KOLKATA. A-grade awarded by AP Knowledge Mission. Recognized under sections 2(f) &

12(B) of UGC Act 1956.) Tirupati- 517520. 2017-2021

## VARYMVCHVBAV IZZLILELE OF TECHNOLOGY AND SCIENCES

(SHORONOLLIV)

Mission. Recognized under sections 2(f) & 12(B) of UGC Act 1956.) Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Anantapuramu, Two B. Tech Programmes (CSE & ECE) are accredited by NBA. (Approved by AICTE, New Delhi & Permanent Affiliation to 1211.A.

Department of Civil Engineering Tirupati- 517520.



#### **CEKTIFICATE**

Science, Tirupati, is a record of bonafide work carried out by them under my CIVIL ENGINEERING to the Annamacharya Institute of Technology and award of the degree of BACHELOR OF TECHNOLOGY in Department of (20AK5A0116) is being submitted in partial fulfilment of the requirements for the ZHVIK KHYTV HUSSEN(20AKSA0132),JITHENDRABAU VELURU SHVZIAVBYDE (50VR2V0140)! VAIVIT AVBIROFI'V (50VR2V0101)" AND ACCIDENT PREVENTION", done by VARUN KUMAR REDDY This is to certify that the project work entitled, "ROAD SAFETY

guidance and supervision. The results embodied in this project report have not

been submitted to any other university or institute for the award of any degree or

diploma.

Signature of the Head of the department is NARASEMBULL.
Head of the Behill Bregg.

Department Ulteration

Department of Civil Engineering. Assistant professor **UMASHANKARI.S** 

Signature of the Supervisor

INTERNAL EXAMINER

DATE: 20-08-27

Carlon Control Control Control

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES::TIRUPATI
(AUTONOMOUS)

Venkatapuram(V), Karakambadi(Po), Renigunta(M), Tirupati-517520, A.P.

#### DEPARTMENT OF CIVIL ENGINEERING



## **CEKLILICYLE**

Certified that this is a bonafiderecord of the socially relevant project report entitled, "RECYCLING PLASTIC WASTE INTO HDPC PAVING TILES", done byMs. P. CHANDINI - (20AKSA0104), K. DINESH - (20AKSA0110),V.M. GANESH BABU - (20AKSA0111),V. GAUTHAM - (20AKSA0113), M.MOUNICA - (20AKSA0120) Submitted to the department of Civil Engineering, in partial fulfilment of the requirements for the Degree of to the department of Civil Engineering, in partial fulfilment of the requirements for the Degree of Technological University-A, Ananthapur during the year 2019-2023.

Technological University-A, Ananthapur during the year 2019-2023.

, Ginibengineering, Januari, Tirupati

chalof the Department

Dr.K.Narasimhulu, MEReh, (Ph.D).

Faculty Coordinator

Signature of the Supervisor

Place: Tirupathi.

DEPARTMENT OF CIVIL ENGINEERING

#### CERTIFICATE

this project report have not been submitted to any other university or institute for the work carried out by them under my guidance and supervision. The results embodied in Annamacharya Institute of Technology and Science, Tirupati, is a record of bonaside of the degree of Bachelor of technology in civil engineering to the KRISHNA is being submitted in partial fulfillment of the requirements for the award P. JAHNAVI, U.SIREESHA, C. DHEERAJ, B. PRUDHVI RAJ, K. HEMASAI REPLACEMENT OF BIOMEDICAL WASTE ASH IN CONCRETE ", done by to certify that the project work entitled, "PARTIAL

award of any degree or diploma.

Signature of the Head of the Department

Civil Engineering Head of the Department Mr. KNARASIMHULU SIR

Civil Engineering

Assistant Professor

Mr.SHYAM SUNDAR SIR, Signature of the Supervisor

DATE: 22.08-92

EXTERNAL EXAMINER

INTERNAL EXAMINER

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## VNNVWVCHVKAV INZLILILIE OF TECHNOLOGY & SCIENCES,

TIRUPATI (AUTONOMOUS)
(Approved by AICTE, New Delhi & Permanent Affiliation to JUTUA, Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi. Accredited by NAAC with 'A'

Department of Civil Engineering 2014-2022



#### CERTIFICATE

This is to certify that the Social Relevant Project titled "ANALYSIS ON CONSTRUCTABILITY OF DIAGRID STRUCTURES WITH PLAN" is being

submitted by

R. PLAHVAVI - 20AKSA0112
R. PRUDHVI RAJ - 20AKSA0112
P. PAHVAVI - 20AKSA0115

P.JAHNAVI - ZOAKSAOIIS

U.SIREESHA - 20AKSA013S

C'SVI DHEEKYI KEDDA - 504K2V0130

in B. Tech CIVIL ENGINEERING is a record bonafide work carried out by them. The results embodied in this report have not been submitted to any other University for the award of any degree.

Submitted for the viva-voice Examination held on 30-06 - 3033

HEAD OF THE DEPARTMENT
Mr. A. ANIL, M. Tech, (Ph.D.)
Assistant Professor, Civil Engineering
Aristant Professor, Civil Engineering

GUIDE

Assistant Professor, Civil Engineering

Alts TIRUPATI

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (SUOMOUOTUA)

(Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Mission. Recognized under sections 2(f) & 12(B) of UGC Act 1956.) Tirupati- 517520.



#### **CERTIFICATE**

This is to certify that the project work entitled, "GREEN SMART BUILDING BY USING WASTE of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL

to the Annamacharya Institute of Technology and Science, Tirupati, is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

Signature of the Head of the Department MR.A.AWEAD

(<mark>∧ԾեβԸ։ ՄւՐգի)</mark>I Engg. AITS, Tirupati-517 5°^ DATE: 20/08/22

(Asst Pro. M-Tech)

ENGINEERING

MadhahMohan

Signature of the Supervisor

**ACKNOWLEDGEMENTS** 

# VANAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(SUOMONOTUA)

Mission. Recognized under sections 2(f) & 12(B) of UGC Act 1956.) Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, (Approved by AICTE, New Delhi & Permanent Affiliation to INTUA,

CIVIL Engineering Tirupati- 517520.



## CEKLIŁICYLE

This is to certify that the project work entitled, "WIND

TURBINE", done by

CIAIT ENGINEERING. ,nadoM nabaM.A.1M

Signature of the Supervisor

the award of any degree or diploma.

20AKSA0117

Y.Rukesh

YoojnsM.2

G.Dhamu

**504K240103** 

P.Badri

Signature o

in this project report have not been submitted to any other university or institute for

work carried out by them under my guidance and supervision. The results embodied

Annamacharya Institute of Technology and Science, Tirupati, is a record of bonaside

the degree of Bachelor of Technology in Civil engineering to the

is deing submitted in partial fulfillment of the requirements for the award of

20AK5A0129

**504K2A0133** 

20AKSA0107

S, Tirupati-517 520

de Department

K.Kranthimai

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

#### (SUOMONOTUA)

Mission. Recognized under sections 2(f) &12(B) of UGC Act 1956.) Tirupati- 517520. Bangalore. Accredited by Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Programmers (CSE & ECE) are accredited by NBA, New Delhi. Accredited by NAAC with 'A' Grade, (Approved by AICTE, New Delhi & Permanent Affiliation to MTUA, Anantapuramu. Two B. Tech



CERTIFICATE

supervision. The results embodied in this project report have not been submitted to any other university or Technology and Sciences, Tirupati, is a record of bonafied work carried out by them under my guidance and degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING to Annamacharya Institute of KUMAR(20AK5A0102) is being submitted in partial fulfilment of the requirements for the award of the (200KSV0123), S.MURALI KRISHNA (200KSA0149), P. PRAVEEN (200KSA0136), A.A. LEVELS IN CHITTOR DISTRICT" done by B.SRINADH (20AKSA0136), P. NARASIMHA This is to certify that the project work entitled, "TREND ANALYSIS OF GROUND WATER

institute for the award of any degree or diploma.

Signatur of Head of the Department

OSE VI Eugseln gippeigisch Dept. of Civil Engg.

Civil Engineering

Ms. A.KALPANA

Civil Engineering Assistant professor

DATE:

72-80-76

INTERNAL EXAMINER

# TAPURIT:: SENDE SCIENCES: TIRUPATION SCIENCES: TIRUPATION (SUOMONOUS)

Venkatapuram(V), Karakambadi(Po), Renigunta(M), Timpati-517520, A.P.

#### DEPARTMENT OF CIVIL ENGINEERING



#### CERTIFICATE

Certified that this is a bonatidetecord of the socially relevant project report entitled, "SNIART PARKING MANAGEMENT SYSTEM", done byms, BHOGYANI SRINADH, REG NO. 20AKSA0123, POLEPALLI PRAVEEN, REG NO. 20AKSA0123, POLEPALLI PRAVEEN, REG NO. 20AKSA0123, POLEPALLI PRAVEEN, REG NO. 20AKSA0123, POLEPALLI COAKSA0102, NIURALI KRISHNA SENDIL KUMAR, REG NO. 20AKSA0149 Submitted to the department of Computer Science and Engineering, in partial fulfilment of the requirements for the Degree of BACHELOR OF TECHNOLOGY in Computer Science and Engineering from the Degree of BACHELOR OF TECHNOLOGY AND SCIENCES::TIRUPATI, ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES::TIRUPATI,

Head of the Department
Mr. A. Amil M. J. Edg. (Ph.D.)
Assistant Profession
Dept. of Dept. glqEsso
AITS, Tirelfis, Limpati

Faculty Coordinator Date: 30-06-22

Signature of the Supervisor

Ananthapur during the year 2019-2023.

Place: Timpathi.

# AND AND SCIENCES (SUOMONOTUA)

(Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Mission. Recognized under sections 2(f) & 12(8) of UGC Act 1956.) Tirupati- 517520.

# THE THE PARTY OF T

CIVIL ENGINEERING

#### **CERTIFICATE**

This is to certify that the project work entitled, "SOLAR PANELS ON CANALS SURFACE & FLOATING ON WATER SURFACE", done by 20AKSA0(146,144,142,145,147,) is being submitted in partial Julfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING to the Annamacharya Institute of Technology and Science, Tirupati, is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

Signature of the Head of the Department

A.Anil HEAD Dept. Stronghal)
Dept. of Action and Stronghal)
AITS, Tirupati-517 520

Signature of the Supervisor B.Baby (Asst Professor. M-Tech)

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(RUOMONOTUA)

Recognized under sections 2(f) & 12(B) of UGC Act 1956.) Tirupati-517520. Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Mission. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Definition (Approved by AICTE, New Delhi & Permanent Affiliation to JUTUA,



#### **CERTIFICATE**

This is to certify that the project work entitled, "GREEN SMART BUILDING BY USING WASTE

to the Annamacharya Institute of Technology and Science, Tirupati, is a record of bonafide work carried requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING MATERIALS", done by 20AKSA0(146,144,145,142,147) is being submitted in partial fulfillment

been submitted to any other university or institute for the award of any degree or diploma. out by them under my guidance and supervision. The results embodied in this project report have not

Eignature of the L the Department

**INTERNAL EXAMINER** 

22-80-08

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(Asst Pro. M-Tech)

**ACKNOWLEDGEMENTS** 

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## VANAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(SUOMONOTUA)

under sections 2(f) & 12(B) of UGC Act 1956.) Tirupati-517520. Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Mission. Recognized Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Institution of Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New (Approved by AICTE, New Delhi & Permanent Affiliation to INTUA,

CIAIT ENCINEERING

## CERTIFICATE

this project report have not been submitted to any other university or institute for the award of any of bonaside work carried out by them under my guidance and supervision. The results embodied in ENGINEERING to the Annamacharya Institute of Technology and Science, Tirupati, is a record requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL [19AKIA0142], D. Lakshmikar[19AKIA0116]is being submitted in partial fulfillment of the P. Surekha[19AK1A0135], Shaik Salman[19AK1A0132], P. Sarala[19AK1A0130], K.Vinay This is to certify that the project work entitled, "ZERO ENERGY BUILDING", done by

Sri. Mr. A. Anil M.Tech, (Ph.D.) Signature of the Head of the Department

Assistant Professor

Head of the department, CIVIL ENGING

TIK-its uniT, 2719

DATE: 22 08 22 INTERNAL EXAMINER

CIVIL ENGINEERING. Professor,

Dr. K. Narasimhulu m.Tech., (Ph.D)

Signification of the Supervisor

degree or diploma.

# (AUTONOMOUS) ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE, New Delhi & Permanent Affiliation to JUTUA, Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by

Institution of Engineers (India), KOLKATA. A-grade avarded by AP Knowledge Mission. Recognized under sections 2(f) & 12(B) of UGC Act 1956.) Tirupati- 517520.

#### DEPARTMENT OF CIVIL ENGINEERING



This is to certify that the project work entitled, "PARTIAL REPLACEMENT OF FINE AGGREGATE IN CONCRETE USING RECYCLED PLASTIC", done by A.1AYANTHI(19AK1A0113), D.RAJU(19AK1A0124), M.SURENDRA A.1AYANTHI(19AK1A0113), M.SURENDRA A.1AYANTHI A.

BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING DEPARTMENT to the carried out by them under my guidance and supervision. The results embodied in this project report have not been submitted to any other university or institute for the award of any degree or diploma.

Internal Guide Head of the Department Dr. J. Guru Jawahar, M.Tech, Ph.D. Mr.A. Anil Assistant professor Professor Head of the Department Department

of Civil Engineering, Department Of Civil Engineering A.L.T.S, TPT. A.L.T.S,

.TTT

Dept. of Civil Engg. AITS, Tirupati-517 Fon

# (AUTONOMOUS) ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Mission. Recognized under sections2(f) & 12(B) of UGC Act1956.). Tirupati-517520.

#### CIAIT ENCINEERING



## CEKLIŁICYLE

This is to certify that the project work entitled, "WATER PURIFICATION USING MATER PURIFICATION USING OF The award of any degree or diploma.

HARTHIKEYA(19AKIA0138) is being submitted in partial fulfillment of the requirements for the degree of BACHELOR OF TECHNOLOGY in CIVIL (19AKIA0112), V.SAICHARAN(19AKIA0126), Y.P. JANARDHAN(19AKIA0110), V.S. TEJA (19AKIA01112), V.SAICHARAN(19AKIA0114), P.S. TEJA (19AKIA0114), P.S. TEJA (19AKIA011

Signature of the Best of the Department
Deptrof. Entry Strut.

HEANTS: THE SALVE THE STRUT.

CIAIT ENGINEERING

isor (Рь. D) Э.С.

Signafurd of the Supervisor Sri. Mr. A. Anil M.Tech, (Ph.D.) ASSISTANT PROFESSOR, CIVIL ENGINEERING.

EXSERUNTEX VIMILER

DATE: 20-06-22 INTERNALEXAMINER

## VANAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(SUOMONOTUA)

Tirupati- 517520. Mission. Recognized under sections 2(f) & 12(B) of UGC Act 1956.) Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by MBA, New (Approved by AICTE, New Delhi & Permanent Affiliation to JUTUA,

#### CIAIT ENCINEERING

#### CERTIFICATE

This is to certify that the project work entitled, "HEADY HIN COURTHELL done by

(19AK1A0117)

(19AK1A0115)

(19AK1A0122) (19AK1A0108)

**1 HEMAVATHI** D KALAVATHI

**G PREMA KUMARI** 

(19AK1A0129) G SANDEEP KUMAR REDDY

degree of Bachelor of technology in civil engineering to the is being submitted in partial fulfillment of the requirements for the award of the

this project report have not been submitted to any other university or institute for the work carried out by them under my guidance and supervision. The results embodied in Annamacharya Institute of Technology and Science, Tirupati, is a record of bonafide

Signature of the Head of the Department

Sri.Mr.A.Anil M.Tech(Ph.D)

CIAIT ENGINEEEEM HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER AITS, Tirupati-517 Dept. of Civil Engg.

Assistant professor

Mrs.D. Nirosha M. Tech(PhD)

Signature of the Supervisor

DATE: 22/08/22 INTERNAL EXAMINER

award of any degree or diploma.

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(SUOMONOTUA)

Tirupati- 517520, Mission, Recognized under sections 2(f) & 12(B) of UGC Act 1956.) Institution of Engineers (India), KOLKATA, A-grade awarded by AP Knowledge Delhi. Accredited by NAAC with 'A' Grade, Bangalore, Accredited by Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by MBA, New (Approved by AICTE, New Delhi & Permanent Affiliation to JUTUA,

#### CIAIT ENGINEERING

#### CEKLILICYLE

This is to certify that the project work entitled, "the toy and that the project work entitled,"

(19AK1A0117)

ASANAM V

(194K1A0115)

D KALAVATHI

(19AK1A0108)

J HEMAVATHI

(19AKIA0122)

**G PREMA KUMARI** 

(19AK1A0129)

C SANDEEP KUMAR REDDY

degree of Bachelor of technology in civil engineering to the is being submitted in partial fulfillment of the requirements for the award of the

this project report have not been submitted to any other university or institute for the work carried out by them under my guidance and supervision. The results embodied in Annamacharya Institute of Technology and Science, Tirupati, is a record of bonaside

Signature of the Head of the Department

Signature of the Supervisor award of any degree or diploma.

Sri.Mr.A.Anli M.Tech(Ph.D)

Mrs.D. Nirosha M.Tech(PhD)

CIAIT ENGINE**BEM**E HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER AITS, Tirupati-517 Dept. of Civil Engg.

Assistant professor

DATE: 22 08/22 INTERNAL EXAMINER

#### ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(SUOMONOTUA)

Mission. Recognized under sections 2(f) & 12(B) of UGC Act 1956.) Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, (Approved by AICTE, New Delhi & Permanent Affiliation to JATUA,

CIAIT ENCINEERING Tirupati- 517520.



#### CEKLILICYLE

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CONVENTIONAL CONCRETE", done by

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This is to certify that the project work entitled, COMPARITIVE ANALYSIS

(19AKIA0129)

(19AKIA0108) (19AKIA0117)

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this project report have not been submitted to any other university or institute for the work carried out by them under my guidance and supervision. The results embodied in Annamacharya Institute of Technology and Science, Turupait, is a record of bonafide degree of Bachelor of technology in Civil Engineering to the

is being submitted in partial fulfillment of the requirements for the award of the

Wes TIE-Mequait, 2114 HEAD OF THE DEPARTMENT (0.47) ANTA BIBALLA (19.19) Signature of the Head of the Department

Assistant professor M.Toth(PLD) adsoniN.C.znM D. Mindeline Supervisor Signature of the

award of any degree or diploma.

DATE: 22/08/22 INTERNAL EXAMINER EXTERNAL EXAMINER

# (AUTONOMOUS) ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES::TIRUPATI

Venkatapuram(V), Karakambadi(Po), Renigunta(M), Tirupati-517520, A.P.

#### DEPARTMENT OF CIVIL ENGINEERING



#### CERTIFICATE

Certified that this is a bonafide record of the socially relevant project report entitled, "CONSTRUCTION OF LOW COST HOUSE", done by Ms.A.YOGASREE(19AK1A0146), Mr. P. Muni Krishna(19AK1A0118), Mr. K. Chiru Kalyan.(19AK1A0106), Mr. P. Purushotam(19AK1A0123), Mr. T. Vivekananda(19AK1A0144), Submitted to the department of Civil Engineering, in partial fulfilment of the requirements for the Degree of BACHELOR OF TECHNOLOGY in Civil Engineering from Jawaharlal Nehru Technological University-A, Ananthapur during the year 2019-2023.

Head of the Department Anil Assishar Polessor

Assistation of the property of

Faculty Coordinator

Signature of the Supervisor

Place: Timpathi.

## INTELLIGENT TRANSPORT SYSTEM

## VNNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(SUOMONOTUA)

(Approved by AICTE, New Delhi & Permanent Affiliation to JUTUA, Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Mission. Recognized under sections 2(f) & 12(B) of UGC Act 1956.)

CIVIL ENGINEERING
Tirupati- 517520.



## CEKTIFICATE

This is to certify that the project work entitled, "Intellined of any other university or institute for the award of any degree or partial fulfillment of the requirements for the award of the degree of Bacheline of the requirements for the award of the degree of Bacheline of Dartial fulfillment of the requirements for the award of the degree of Bacheline of Technology and Science, Tirupati, is a record of donafide work carried out by them partial fulfillment of the requirements for the award of the degree of Bacheline of International fulfillment of the requirements for the award of the degree of Bacheline of Trupation of the requirements for the award of the degree of Bacheline in partial fulfillment of the requirements for the award of the degree of Bacheline of Trupation of the requirements for the award of the degree of Bacheline of Trupation of the requirements for the award of the degree of Bacheline of Trupation of the requirements for the award of the degree of Bacheline of Trupation of the record of the degree of Bacheline of Trupation of the requirements for the award of the degree of Bacheline of Trupation of the requirements for the award of the degree of Bacheline of Trupation of the requirements for the award of the degree of Bacheline of Trupation of the record of the degree of Bacheline of Trupation of the requirements for the degree of Bacheline of the record of the degree of Bacheline of Trupation of the record of the degree of Bacheline of Trupation of the degree of Bacheline of Trupation of the degree of Bacheline of the degree of Bacheline

Signature of the Head of the Department Sri. Mr. A. Anil (Assistant professor)
HEAD OFFINE PROPERTY NEWSOR

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Signature of the Supervisor Sri. Mr. S. Sameer ASSISTANT PROFESSOR,

EXTERNAL EXAMINER

DATE: 22-08-22 INTERNAL EXAMINER

DATE: 22-08-22

**Civil Engineering** 

Assistant Professor,

Ms. VISHNU PRIYA,

Signature of the Supervisor

INTERNAL EXAMINER

Givil Engineering.

Civil Engineering.

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Civil Engineering.

Alt: A. Alt.

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Signature of the Head of the Department A. ANIL,

This is to certify that the socially relevant project work entitled, Utilization of waste plastic in fabrication of plastic soil bricks, done by is being submitted in partial fulfilment of the requirements for the award of the degree of Technology and Science, Tirupati, is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this socially relevant project report have not been guidance and supervision. The results embodied in this socially relevant project report have not been submitted to any other university or institute of the award of any degree or diploma.

CEBILLICYLE

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES::TIRUPATI

(AUTONOMOUS)
Venkatapuram(V), Karakambadi(Po), Renigunta(M), Tirupati-517520, A.P.

#### DEPARTMENT OF CIVIL ENGINEERING



## CEKLILICYLE

Certified that this is a bonafide record of the socially relevant project report entitled, COMPARATIVE STUDY ON CONVENTIONAL AND GREEN BUILDING (19AKSA0127) and K. SHALINI - (19AKSA0133) Submitted to the department of Civil Engineering, in partial fulfilment of the requirements for the Degree of BACHELOR OF (19AKSA0127) and K. SHALINI - (19AKSA0133) Submitted to the department of Civil Engineering, in partial fulfilment of the requirements for the Degree of BACHELOR OF (19AKSA0127) and K. SHALINI - (19AKSA0133) Submitted to the department of Civil Engineering, in partial fulfilment of the requirements for the Degree of BACHELOR OF (19AKSA0127) and K. SHALINI - (19AKSA0133) Submitted to the department of Civil Engineering, in partial fulfilment of the requirements for the Degree of BACHELOR OF (19AKSA0127) and K. SHALINI - (19AKSA0133) Submitted to the department of Civil Engineering, in partial fulfilment of the requirements for the Degree of BACHELOR OF (19AKSA0127) and K. SHALINI - (19AKSA0133) Submitted to the department of Civil Engineering, in partial fulfilment of the requirements for the Degree of BACHELOR OF (19AKSA0127) and K. SHALINI - (19AKSA0133) Submitted to the department of Civil Engineering from Jawaharlal Menning the Study of Conversation of Civil Engineering from Jawaharlal Menning the Study of Conversation of Civil Engineering from Jawaharlal Menning from J

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Faculty Coordinator

Signature of the Supervisor

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The overall performance of the Community Service Volunteer during his/her community service is found to be ... (Satisfactory/Good).

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This is to certify that C.RAKESH Reg. No 20AK1A0146 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in PATTIKONDA Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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#### Confidence from Official of the Community

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WARD AMENITIES SECRETARY
Secretariat Code 1012051
Ward No. 26
THRUPATI MUNICIPAL CORPORATION
Authorized Signatory with Date and

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The overall performance of the Community Service Volunteer during his/her community service is found to be  $\varsigma_{\circ\circ}A$  (Satisfactory/Good).

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This is to certify that G.REDDY THANUJA Reg, No 20AKIA0150 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati anderwent community service in VENKATAPURAM Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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The overall performance of the Community Service Volunteer during his/her community service is found to be  $\frac{1}{2}$  (Satisfactory/Good).

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The overall performance of the Community Service Volunteer during his/her community service is found to be ... Accelemnately .... (Satisfactory/Good).

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This is to certify that P.SAI SUHASINI Reg. No 20AKIA0156 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in THANAPALLI Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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This is to certify that S.SAI KUMAR REDDY Reg. No 20AKIA0157 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Venkatapuram Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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This is to certify that C.SAIPRATHAP Reg. No 20AK1A0158 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Venkatapuram Village from 4-8-2022 to 8-9- 2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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The overall performance of the Community Service Volunteer during his/her community service is found to be .............. (Satisfactory/Good).

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This is to certify that N SHIVA SHANKAR Reg. No 20AK1A0162 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in VENKATAPURAM Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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This is to certify that A.SUPRAJA Reg. No 20AKIA0166 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Venkatapuram Village from 4-8-2022 to 8-9-2022. The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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This is to certify that K.SUPRAJA Reg. No 20AKIA0167 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Venkatapuram Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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This is to certify that M.TEJA KUMAR Reg. No 20AKIA0168of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in TIRUPATHI from 4-8-2022 to 8-9- 2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Authorized Sacassany with Date and Karakambadi GRAMA PANCHAYAT RENIGUNTA MANDAL.

This is to certify that K.UDAY KIRAN Reg. No 20AKIA0169 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in PATTIKONDA Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Auth**Distral Sasistral W**ith Date and Sara Sara Sara Sara Panchara Sara Sara Sachival Pancharat RENIGUNTA MANDAL.

This is to certify that E.VENKATA DINESH KUMARReg. No 20AK1A0170 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in MADAVAPURAM Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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This is to certify that VVS ESWAR Reg. No 20AK1A0172 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service at KORLAGUNTA from 4-8-2022 to 8-9- 2022. The overall performance of his, during the community service project is found to be (Satisfactory/Good).

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This is to certify that N Sidhartha Reg. No 20AKIA0174 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service at Tirumala Village from 4-8-2022 to 8-9-2022. The overall performance of his, during the community service project is found to be (Satisfactory-Good).

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This is to certify that N.VIIAY KUMAR Reg. No 20AK1A0176 of Annamacharya Institute of Technology & Science(Autonomous), TIRUPATI underwent community service at TIRUPATI from 4-8-2022 to 8-8-2022. The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

WARD AMENITIES SECRETARY Secretariat Code 1012051 Ward No. 26 WIRUPAL CORPORATION

Authorized Signatory with Date and Seal

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The overall performance of the Community Service Volunteer during his/her community service is found to be ... Good...... (Satisfactory/Good).

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This is to certify that V.YOGANANDHA REDDY Reg.No 20AK1A0178 of Annamacharya Institute of Technology & Science(Autonomous), TIRUPATI underwent community service at TIRUPATI from 4-8-2022. The overall performance of the Community service at January Service at January Service at January Service at January Service is found to be community Service.

(Satisfactory/Good).

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WARD AMENITIES SECRETARY
Secretariat Code 1012051
Ward No. 26
TIRUPATI MUNICIPAL CORPORATION

Authorized Signatory with Date and Seal

This is to certify that P. Sai Keerthi Reg. No 21AK5A0171 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service at Karakambadi Village from 4-8-2022 to 8-9- 2022. The overall performance of his, during the community service project is found to be (Satisfactory/Good).

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The overall performance of his, during the community service project is found to be (Satisfactory/Good).

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CAMPADI GRAMA PANCHAYAT

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RENIGUNTA MANDAL

This is to certify that V.Venugopal Reg. No 21AK5A0175 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service at Karakambadi Village from 4-8-2022 to 8-9-2022. The overall performance of his, during the community service project is found to be (Satisfactory/Good).

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The overall performance of the Community Service Volunteer during his/her community service is found to be ... Satisfactory/Good).

CRAMBADI GRAMA PANCHAYAT

RENIGUNTA MANDAL.

This is to certify that T. Vincetha Reg. No 21AK5A0177 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service at Karakambadi Village from 4-8-2022 to 8-9-2022. The overall performance of his, during the community service project is found to be (Satisfactory/Good).

Authorized Signatory with Seal wand abministrative secretariat Code: 1012001
Ward No.

This is to certify that GINVIShow YOTAhom (Name of the Conmunity Service Volunteer) Reg NoziAKSA of the College) underwent community service in Chennun Leader College) underwent community service in Chennun Leader College)

The overall performance of the Community Service Volunteer during his/her community service is found to be Good. (Satisfactory/Good).

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This is to certify that B. RAJA KUMAR Reg. No 21AKSA0180 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati anderwent community service in VENKATAPURAM Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during this/her community service is found to be (Satisfactory/Good).

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This is to certify that B SIVA SANKAR Reg. No 21AKSA0181 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in VENKATAPURAM Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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This is to certify that P.AKHILA DEVI Reg. No 21AK5A0101 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in PENUKONDA Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Authorized Signaturally Date and Segrandin Date and Segrand Se

This is to certify that S AMRUTHA Reg. No 21AK5A0102 of Annamacharya Institute of Technology & Seiences (Autonomous), Tirupati underwent community service in BALUPALLE Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Ward No.

Secretariat Code: 1012067

Secretariat Code: 1012067

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Authorized Signatory with Date and

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The Overall performance of the community service volunteer during his/her community service is found to be (Satisfactory/Good).

Authorized Signatory with Date

and Seal

This is to certify that E AravindReg. No 21AK5A0104 of Annamacharya Institute of Technology & Sciences (Autonomous), KURNOOL DIST

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community service in ADONI Town from 4-8-2022 to 8-9- 2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Village Horticulture Assistant Authoritage Horticulture Assistant Authoritage Mandal Chittoor Dist. Seal

#### *PCKHOWLEDGEMENTS*

We have dedicated this project within expressible gratitude to our country. The values and virtues they have instilled in us have made us to achieve whatever we have achieved so far. They have been constant source of encouragement, inspiration and love. We hope with our hard work and dedication. We would be able to translate their dreams into reality.

We sincerely thanks Dr. C. MADHAMUNI REDDY., Principal of our college or fostering an excellent academic environment during our project work.

We are thankful to Mr. A. ANIL KUMAR, M. Tech, Ph.D., Head of the Department fostering an excellent academic environment during our project work.

With immense pleasure I would like to extend our sincere thanks to our beloved guide, Mrs. A KALPANA, M. Tech., Department of Civil Engineering, Annamacharya institute of technology and sciences, Karakambadi, KURNOOL DIST, Chittoor, Andhra Pradesh., For her guidance, very great motivation, encouragement, keen interest and support for carrying out our project successfully.

The confidence bestowed in us and entrusting our Community service project entitled " A study and service on creation of data collection by Geographical survey in Kothapalli Town.

Last but not the least places a deep sense of gratitude to my family members and my friends who have been constant source of inspiration during the preparation of this project work.

This is to certify that B.Balu Reg. No 21AK5A0105 of Annamacharya Institute of Technology &Sciences (Autonomous), Tirupati underwent community service in RAMAPURAM Village from 4-8-22 to 8-9-22

The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Authorized sesistany with Date and CRARAM SACHIVALAYAM-07
KARAMANBADI GRAMA PANCHAYAT
RENIGUNTA MANDAL.

This is to certify that O Bavani Reg. No 21AK5A0106 of Annamacharya Institute of Technology &Sciences (Autonomous), Tirupati underwent community service in M kothapalli Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Authorized Signatory with Date and Seal Dielta ESSISTANT

GRAMA SACHIVALAYAM-01

KENIGUNTA MANDAL.

RENIGUNTA MANDAL.

This is to certify T. Bhanu Prakash Reg. No 21AK5A0107 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Kamathampalli from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Autho**dight R**ESSESTANI<sup>th</sup> Date and **Grand Marity Nation** Date and **Grand Panchayat** Karakambadi Grama Panchayat Revigunta mandal.

This is to certify that Lichards Lumber Red do 2/A 540108 of Community Service Volunteer) Req No 2/A 540108 of Apparatually Service in Norman Kadety did.... (Name of the underwent community service in Normana Kadety did.... (Name of the Community) from L-8-302 to 8-9-32

The overall performance of the Community Service Volunteer during his/her community service is found to be Good (Satisfactory/Good).

ACHIDAL NEVENUE INSPECTOR
ALMANDAL NEVENUE INSPECTOR
Authorized Subbline and
Nouthoused Subblines and

community service is found to be (Satisfactory/Good). overall performance of the Community Service, Volunteer during his/her underwent community service in TIRUPATI from 04-8-2022 To 08-9-2022 The Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati This is to certify that P.CHANDANA Reg. No 21AKSA0109 of

Authorized Signature Main Bair Seal Es or healto

Tirupathi Rura

This is to certify that C CHANDRA SEKHAR Reg. No 21AK5A0110 of Annamacharya Institute of Technology & Sciences (Autonomous), underwent community service in DHARMAVARAM Town from 4-8-2022 to 8-9- 2022 The overall performance of the Community Service Volunteer during his/her community

service is found to be (Satisfactory/Good).

Authoriganta Mandal Chittoor Dist.
Seal

#### **VCKNOMLEDGEMENTS**

We have dedicated this project within expressible gratitude to our country. The values and virtues they have instilled in us have made us to achieve whatever we have achieved so far. They have been constant source of encouragement, inspiration and love. We hope with our hard work and dedication. We would be able to translate their dreams into reality.

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The confidence bestowed in us and entrusting our Community service project entitled "  $\Lambda$ 

study and service on creation of data collection by Geographical survey in Kothapalli Town.

This is to certify that G. DINESH CHOWDARY Reg. No 21AK5A0111 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in TIRUPATI from 04-8-2022 To 08-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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community service is found to be (Satisfactory/Good). overall performance of the Community Service Volunteer during his/her community service in MUKKAMALLA Village from 4-8-2022 to 8-9- 2022 The Institute of Technology & Sciences (Autonomous), Tirupati underwent This is to certify that R.Divya Reg. No 21AK5A0112 of Annamacharya

Seal Ward Samitation & Envisonment Secretariat Code: 1012074
Ward No. 37/2 Extra bine and him violengie basinoninA

MOITAROPATI MUNICIPAL CORPORATION

This is to certify that T.S.GIRISH KUMAR Reg. No 21AKSA0113 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in KOTALA Village from 4-8-2022 to 8-9-2022

The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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This is to certify that J. GNANESH KUMAR Reg. No 21AK5A0114 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in TIRUPATHI from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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This is to certify that G.GUNA SAI Reg. No 21AK5A0115 of Annamacharya Institute of Technology &Sciences (Autonomous), Tirupati underwent community service in M kothapalli Village from4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

CHAINGHIAL ASSISTANT With Date and KARAMANALAYAM PANCHAYAT RENIGUNTA MANDAL.

This is to certify that B. HARI PRASAD Reg.No. 21AKSA0116 of Annamachary Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in TIRUPATHI from 4-8-2022 to 8-9-2022. The over all performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Village House Signatory With Date and Seal Authorized Signatory With Date and Seal Remines Chittoor Dist.

This is to certify that V, JAMUNA Reg. No 21AK5A0118 of Annamacharya lastitute of Technology & Sciences (Autonomous), Tirupati underwent community service in ORUVAI Village from 4-8-2022 to 8-9- 2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Authorized Signatory with Date and Difficed Signatory with Date and Seal Digital ASSISTANT SARAKAMBADI GRAMA PANCHAYAT RENIGUNTA MANDAL.

This is to certify that L. JANARDHAN Reg.No. 21AK5A0119 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in TIRUPATI from 04-8-2022 To 08-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Authorized Signal violengie bestrodius

5105 NO 101

This is to certify K. JYOTHI PRAKASH Reg. No 21AK5A0120 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Subba Reddy Nagar from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

noiragagas Laginnamiragani Authorized Signatory with Date and

WARD ADMINISTRATION SECRETARIAN Secretariat Code: 1012003

Seal

Ward No.

This is to certify that L. KEERTHI Reg. No 21AK5A0122 of Annamacharya Institute of Technology &Sciences (Autonomous), Tirupati underwent community service in BALUPALLE Village from 4-8-2022 to 8-9- 2022. The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

ENGINEERING ASSISTANT
GRAMA SACHIVALAYAM-01
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GENIGUNTA MANDAL
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erviceisfoundtobe(Satisfactory/Good). TheoverallperformanceoftheCommunityServiceVolunteerduringhis/hercommunitys 7077 -6-8 from 4-8-2022to **ADOUI** service ui nderwentcommunity AnnamacharyaInstituteofTechnology&Sciences(Autonomous), Tirupatiu ) ło No 21AK5A0123 Reg. KOUSHIK M tedt certify

Audition Mandal Chittoor Dist. Renigunts Mandal Chittoor Dist.

This is to certify that K kumar Reg. No 21AK5A0124 of Annamacharya InstituteofTechnology&Sciences(Autonomous), Tirupati under went community service in GONAVARAM (Village) from 4-8-2022to 8-9- 2022 The over all performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Cood).

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AuthorizedSignatorywithDateandSeal

NOTTABOYSUG 12 TO SERVING IT SAURY

This is to certify that P.LAHIRI SAI TEJA Reg. No 21AKSA0125 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in TIRUPATI from 04-8-2022 To 08-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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This is to certify S. Lakshmi Narasimha Reg. No 21AKSA0126 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Subba Reddy Nagar from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Ward No.

Variational Code: 1012003

Secretariat Code: 1012003

Ward No.

TIBUPATI MUNICIPAL CORPORATION
Authorized Signatory with Date and

Seal

This is to certify that K LALU SAB Reg. No 21AK5A0127 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in MANGALAM Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Authorize**diêjtra**tory with Date and **Gathal Assistant**Seal **Grama Sachivalayam-01**Seal **Grama Panchayat**Renigunta Mandal.

This is to certify that P. BHAKTHI KRISHNA Reg.No: 21AK5A0128 of Annamachary Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in TIRUPATHI from 4-8-2022 to 8-9-2022. The over all performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

WARD REVENUE SECRETARY Secretaring Secretaring Code: 1012070
Ward No. Secretaring Code: 1012070
Ward No. Secretaring Secretari

Authorized Signatory with Date and Seal

This is to certify that M. MADHURITHA Reg.No: 21AKSA0129 of Annamachary Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in TIRUPATHI from 4-8-2022 to 8-9-2022. The over all performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Cood).

Authorized Signatory With Date and Seal Authorized Signatory With Pura

This is to certify that G MAHABOOB Reg. No 21AK5A0130 of Annamacharya Institute of Technology & Sciences (Autonomous), Kurnool underwent community service in MADIRE Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

TO MAYA TAVIHAN ASHIND SIC and TO MAYA TAVIHAN SAC AMARA

RENIGUNTA MANDAL

This is to certify that U.Mahendra Reg. No 21AK5A0131 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in MUKKAMALLA Village from 4-8-2022 to 8-9- 2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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RENIGUNTA MANDAL.

Seal GRAMA PACHIVALAYAM-01
KARAKAMBADI GRAMA PANCHAYAT
RENIGUNTA MANDAL.

| community service is found to be Good (Satisfactory/Good).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| The overall performance of the Community Service Volunteer during his/her                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| (allege)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Community Service Volunteer) Reg. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| This is to certify that                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

MANDAL REVENUE INSPECTOR
ANAMAR MANDAL
ANAMAR MANDAL
ANAMAR MANDAL
Best

This is to certifyk, MANI BHARATH ACHARI Reg. No 21AK5A0133 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Kakanuru village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Authorized Since

Authorized Signatory with Date and Delibrate ASSISTANT Seal GRAMA SACHIVALAYAM-01

KARAKAMBADI GRAMA PANCHAYAT RARAKAMBADI GRAMA PANDAL.

This is to certify N.Meghana Reg.No 21AK5A0134 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Karakambadi from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Authorized Signatory with Date and Deal GENDAL ASSISTANT
Seal GRAMA SACHIVALAYAM-01

Seal GRAMA PANCHAYAT

FULCUITA MANDAL

This is to certify that K Mehfuz ur rehman Reg. No 21AK5A0135 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in MANGALAM Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Author **Dict Meissers Ani**th Date and

Author**Diel Ta**e a**rssistani**th Date and **Grama Sachivalayam-01 Karakambadi Grama Panchayat Revigunta Mandal.** 

This is to certify that K. Mahesh Reg. No 21AK5A0136 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in NALLAPALEM Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Vivede Horriculture Assistant
Authanakankahlagpat/Mygwitbcleateigand
Renigunta Mandal Chittoor Dist.
Seal

This is to corrity T. Murali krishna Reg. No 21AK5A0137 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in pileru from 4-8-2022 to 8-9-2022

The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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This is to certify that P NAJEER BASHA Reg. No 21AK5A0139 of AnnamacharyaInstituteofTechnology&Sciences(Autonomous), Tirupatiu nderwentcommunity service in ADOMI from 4-8-2022to 8-9- 2022

Theoverall performance of the Community Service Volunte erduring his/hercommunitys

erviceisfoundtobe(Satisfactory/Good).

Authorities Pecretaina Seal Karakambadi-I Village Secretaina Karakambadi-I Village Secretaina Kenigunta Mandal Chittoor Dist.

This is to certify that S. NIKHIL MANIKANTA Reg.No 21AK5A0140 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Subba Reddy Nagar from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Wate Signatory with Date and

Secretariat Code:

Seal

(Satisfactory/Good). Community Service Volunteer during his/her community service is found to be Nandikotkur Village from 4-8-2022 to 8-9- 2022 The overall performance of the Technology & Sciences (Autonomous), Tirupati underwent community service in This is to certify that A.VIRMALA Reg. No 21 AKSA0141 of Annamacharya Institute of

SACHINA Authorized Signatory with Date and

This is to certify that K PAVAN KUMAR REDDY Reg. No 21AK5A0142 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Mangalam Village from4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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KARAKAMBADI GRAMA PANCHAYAT
KENIGUNTA MAMDAL

This is to certify that V PAVAN KUMAR Reg. No 21AK5A0143 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in KOTALA Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

J. F. A

Aud**diginal Sissistam** with Date and Cerambadian Sachivalayam.on Karakambadi Grama Panchayat
Remigunta mandal.

This is to certify that G.PAVAN SAI Reg. No 21AKSA0144 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in NANDYAL from 4-8-2022 to 8-9-2022. The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Village Hortice Hattaters in the Bate and Karataning Date and Renigunta Mandal Chittoor Dist.

This is to certify that Y.S.PAVANI Reg. No 21AKSA0145 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in BALUPALLE Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Authorized Signatory with Date and

500/10/08

This is to certify that M PRAHALLADHUDU Reg. No 21AKSA0146 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in SRIRAGAPURAM Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Ward Ward Land Book Coarden ---

Authorized Signatory with Date and

Seal

This is to certify that C. PRASANTH Reg. No 21AKSA0147 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in KALUVOYA town from4-8-2022 to 8-9- 2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Authorized Signatory, with Date and Seafgrand Section 10. Maya Section Seafgrand Seafgrand Pauchaya Ayakamakamana Athuenaya Religuala mandala

This is to certify that P.PRAVEEN KUMAR Reg. No 21AKSA0148 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Gayathri Estate from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Authorized Signatory with Date and

Seal

This is to certify V.PRAVEEN

Reg. No 21AK5A0149 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in ANKEMVARIPALLI from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her

overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Authorized Montal Nation Date and Gram Sacriff Date and Gram Sacriff Sam Paller Date and Seal Sam Paller Date and Sam Paller D

This is to certify S.Rajkumar Reg. No 21aksa0150 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Sathyanarayanapuram from 4-8-2022 to 8-9- 2022 The overall performance of the Community Service Volunteer during his/her

overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Authorized Sighatory with Date and

Seal

This is to certify that K, RAJU Reg. No 21AK5A0110 of Annamacharya Institute

community service in DHARMAVARAM Town from 4-8-2022 to 8-9- 2022 The

overall performance of the Community Service Volunteer during his/her community

service is found to be (Satisfactory/Good).

of Technology & Sciences (Autonomous), underwent

J. Thor.

Village Horticulture Assistant

Authwainschligmatge Scrittischaftenden Authwainschligungen Benigunta Mandal Chittoor Dist.

Seal

#### **VCKNOMLEDGEMENTS**

We have dedicated this project within expressible gratitude to our country. The values and virtues they have instilled in us have made us to achieve whatever we have achieved so far. They have been constant source of encouragement, inspiration and love. We hope with our hard work and dedication. We would be able to translate their dreams into reality.

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We are thankful to Mr. A. AML KUMAR, M. Tech, Ph.D., Head of the Department fostering an excellent academic environment during our project work.

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The confidence bestowed in us and entrusting our Community service project entitled "  $\mathbf{A}$  study and service on creation of data collection by Geographical survey in Kothapalli Town .

This is to certify that D.rohith Reg. No 21AK5A0152 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in MUKKAMALLA Village from 4-8-2022 to 8-9- 2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

Village Horticultura Assistant Authorized Signatori Willage Secretariat Seafenigunta Mandal Chittoor Dist.

during his/her community service is found to be (Satisfactory/Good). to 8-9- 2022 The overall performance of the Community underwent community service in KURAVAPALLI Village Annamacharya Institute of Technology &Sciences (Autonomous) ,Tirupati is to certify that P Reddy Padmaja Reg. No 21AK5A0153 Service from4-8-2022 Volunteer ō,

Authorized Signatory with Date and PANCHAYAT SECRETARY
Seal ambaiahpalem Sachivalayam Thottambedu Mandal

This is to certify that D SAI KUMAR Reg. No 21AK5A0154 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in PRODDATUR town from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Authopicat Attended Section Date and Section DATE And Section Of S

This is to certify that B Sai Mallik Reg. No 21AK5A0155 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Narasingapuram Village from 4-8-2022 to 8-9-2022 The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

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Authorized Signatory Wilh Date and wellerers & EDUCATION ASSISTANT Seal MARASING APPREAM SACHIVALAYAM CHANDRAGIRI MANDAL

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