

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

Tirupati-517520.

2021-2022



EXTERNAL EXAMINER

*ms/10/08*  
*ms/10/08*

~~INTERNAL EXAMINER~~  
Date: 08/09/2022

ANIL, M.Tech (Ph.D.)  
Dept. of Civil Engng  
Head of the department,  
AITTS, Tirupathi,  
AITTS, Tirupathi,  
Dept. of Civil Engineering

HEAD  
Signature of the Head of the Department

K.SAIBHINAV, M.Tech (Ph.D.)  
Assistant Professor,  
Dept. of Civil Engineering  
AITTS, Tirupathi.

Signature of the Supervisor  
K.Saibhina

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, Tirupathi, is a 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.

CERTIFICATE



DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES  
(AUTONOMOUS)  
(Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuram, Three B.Tech Programs (CSE, ECE & CE) 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.)  
Tirupathi-517520.

**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**

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

UGC Act 1956.)Tirupati- 517520.

2021-2022

Project Report on



**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**(AUTONOMOUS)**

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Recognized under sections 2(I) & 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:

AITS, Tirupati

Department of Civil Engineering

Assistant Professor

Dept. of Civil Engg.

AITS, Tirupati-517 520

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

**HEAD**

*Signature of the Head of the Department*



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



Assistant Professor, Department of Civil Engineering

A.KALPANA M.Tech

Under the esteemed guidance of

(20AK1D02005)

K.VARSHASRI

Submitted by

MASTERS OF TECHNOLOGY  
In  
STRUCTURAL ENGINEERING

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

EXPERIMENTAL INVESTIGATION ON GEOPOLYMER BRICKS

Project Report on

A

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**(AUTONOMOUS)**

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

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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, "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: 02/09/22

~~INTERNAL EXAMINER~~

Signature of the Head of the Department

Department Head  
Dept. of Civil Engineering  
AITS, Tirupati.

~~EXTERNAL EXAMINER~~



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

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

2021-2022



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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-20AKID2006 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

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

Assistant Professor,  
Department of Civil Engineering  
AITS, Tirupati

DATE: 08/09/22  
~~INTERNAL EXAMINER~~

EXTERNAL EXAMINER

*[Signature]*

Assistant professor,  
Dept. of Civil Engg.  
AITS, Tirupati-517 520  
Department of Civil Engineering  
AITS, Tirupati

Mr. A.VIL M.Tech HEAD

Signature of the Head of the Department

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES**

(AUTONOMOUS)

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

Tirupati-517520.

**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 TLAYA SRI (20AKID2003) 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.

*N. Narasimulu*  
Signature of the Supervisor

E NARASIMULU, M.Tech  
Assistant Professor,  
Dept. of Civil Engineering  
AITS, Tirupati.

Date: 08/09/22

~~INTERNAL EXAMINER~~

*M. N. Lakshmi*  
Signature of the Head of the Department

HEAD  
A. ANIL, M.Tech  
Head of the department  
AITS, Tirupati-517520  
Dept. of Civil Engineering  
AITS, Tirupati.

EXTERNAL EXAMINER

*N. Lakshmi*  
08/09/22



2021-2022

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(AUTONOMOUS)

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

DEPARTMENT OF CIVIL ENGINEERING



Associate professor, Department of Civil Engineering

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

Under the guidance of

A. BALASAI KUMAR (20AK1D2001)

*Submitted by*

STRUCTURAL ENGINEERING

In

MASTERS OF TECHNOLOGY

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

reinforced concrete

Experimental investigation on controlled permeable formwork liner in steel fibre

Project Report on

A



**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, "EXPERIMENTAL INVESTIGATION ON CONTROLLED PERMEABLE FORMWORK LINER IN STEEL FIBRE REINFORCED CONCRETE" on by A.BALASAI KUMAR-20AK1D2001 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 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]*  
Signature of the Supervisor

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

*[Signature]*  
Signature of the Head of the Department

Mr. A. ANIL M.Tech (Ph.D)  
Dept. of Civil Engg.  
AITS, Tirupati-517 520  
Department of Civil Engineering  
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

**BACHELOR OF TECHNOLOGY IN  
CIVIL ENGINEERING**

*During the Academic year 2021-2022*

*Submitted By*

K.SRAVANI	(18AKIA0115)
S.SADIQ VALI	(19AKSA0121)
V.VIJAY BHASKAR REDDY	(18AKIA0125)
C.TEJASWINI	(18AKIA0119)
S.HEMADRI	(18AKIA0106)

*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.)

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2021 - 2022

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE  
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Venkatapuram (V), Tirupati - 517 520 (A.P)

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CERTIFICATE



This is to certify that the work contained in 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 (19AK5A0121)
- 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 Guide  
 Ms. T. Jahnavi, M.Tech.,  
 Assistant professor,  
 Department Of Civil Engineering  
 Date... 02/03/2022

Head of the Department  
 Mr. A. Anil Kumar (Ph.D.)  
 Dept. of Civil Engineering,  
 Assistant Professor,  
 AITS, Tirupati-517  
 Department of Civil Engineering  
 External Examiner  
 P. M. G. H.



Project report on

# SUPPLY CHAIN MANAGEMENT IN CONSTRUCTION INDUSTRY

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

## BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

*Submitted by*

P. KRISHNA KUMAR 19AKSA0154

M. GURRAPP 19AKSA0145

Y. DINESH 19AKSA0144

G. LOKESH REDDY 19AKSA0156

N.V. PREM KUMAR 19AKSA0180

MLAKSHMI NARAYANA REDDY 19AKSA0155

Under the esteemed guidance of

S. UMASHANKARI, M. Tech

Assistant professor, Civil Engineering



## CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

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sections 2(f) & 12(B) of UGC Act 1956.) Tirupati-517520.  
2021-2022

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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. GURAPPA (19AK5A0145), Y. DINESH (19AK5A0144), G. LOKESH REDDY (19AK5A0156), N.V. PREM KUMAR (19AK5A0180), M.LAKSHMI NARAYANA REDDY (19AK5A0155) 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 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  
27/06/22

S. UMASHANKARI, M. Tech

Assistant professor

Civil Engineering

Signature of the Head of the Department

HEAD

A. DR. M. G. R. (PHD)

Assistant professor  
Tirupati-517 520

Civil Engineering

EXTERNAL EXAMINER

27/7/2022

INTERNAL EXAMINER

27/7/22



**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  
IN  
CIVIL ENGINEERING**

Submitted by

- G. BHANU PRASAD
  - V. ANAND
  - K. BHARGHAV
  - U. JYOTISH KUMAR
- 19AK5A0136  
19AK5A0137  
19AK5A0138  
19AK5A0152

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

2021-2022

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
- V. ANAND
- K. BHARGHAV
- U. JYOTHISH KUMAR

- 19AK5A0136
- 19AK5A0132
- 19AK5A0138
- 19AK5A0152

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

*[Signature]*  
 Signature of the supervisor  
**P. HARISH**  
 Asst Professor  
 Civil Engineering

*[Signature]*  
 Signature of the Head of the Department  
**A. HEAD**  
 Dept. of Civil Engg.  
 Asst. Professor  
 AITS, Tirupati-517 020  
 Civil Engineering

*[Signature]*  
 INTERNALEXAMINER

*[Signature]*  
 2/7/22  
 EXTERNALEXAMINER

DATE: 02/07/22

**CERTIFICATE**





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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2021 - 2022

DEPARTMENT OF CIVIL ENGINEERING  
ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE  
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(V), Tirupati - 517 520 (A.P.)  
[www.aitis-tpt.edu.in](http://www.aitis-tpt.edu.in)

CERTIFICATE



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

T. THIRUMALA REDDY  
K. CHAITHANYA KUMAR  
P. PETER  
V. SAI HARI KRUPA  
C. SINDHU

(19AK5A0177)  
(19AK5A0139)  
(19AK5A0161)  
(19AK5A0167)  
(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.S. Srinivas*

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

Assistant professor,

Department of Civil Engineering,

A.I.T.S, TPT.

Date: 02-07-2022

Internal Examiner

*K.S. Srinivas*

External Examiner

*[Signature]*  
21/7/2022

A.I.T.S, TPT.

Department of Civil Engineering,

Dept. of Civil Engg.  
A.I.T.S, Tirupati-517 520  
HOD, Assistant professor,

Head of the Department  
*[Signature]*  
HEAD



**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*

**BACHELOR OF TECHNOLOGY IN**

**CIVIL ENGINEERING**

*During the academic year 2021-2022*

*Submitted By*

**G. PAVAN KUMAR**

**K. PRAVEEN**

**O. BHARATH**

**CH. VINAY KUMAR**

**S. VAMSI KRISHNA VISHAL**

**19AK5A0159**

**19AK5A0163**

**19AK5A0137**

**19AK5A0181**

**19AK5A0178**

*Under the supervision of*

**A. KALPANA, 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](http://www.aits-tpt.edu.in) 2021 - 2022**

# CERTIFICATE

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.aitshftp://www.aitshftp.edu.in/lpt.edu.in](http://www.aitshftp://www.aitshftp.edu.in/lpt.edu.in)



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

is the original work done by

G. PAVAN KUMAR (19AK5A0159)

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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 2020-2021.

Internal Guide

A.KALPANA, M.Tech,

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Head of the Department

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A.ANIL, M.Tech, Phd

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HOD Department of Civil Engineering,

AITS, Tirupati, 517 520

AITS, IPT.



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)  
G. HEMANTH KUMAR (19AK5A0148)  
P. RAVI CHANDRA (19AK5A0166)

*Under the supervision of*

P. Vishnu prya, 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.)

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2021 - 2022

Date: 02/07/2022

External Examiner

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

P. RAVI CHANDRA

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"BUILDING" is the original work done by

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



CERTIFICATE

[www.ait-s-tpt.edu.in](http://www.ait-s-tpt.edu.in)

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

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE  
Affiliated to JNTUA, ANANTAPUR & Approved by AICTE New Delhi  
DEPARTMENT OF CIVIL ENGINEERING



# 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),  
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2020-2021

DATE: 02/07/22

INTERNAL EXAMINER

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EXTERNAL EXAMINER

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2/7/22

Civil Engineering

Dept. of Civil Engg.  
AIT'S, Tirupati  
Asst. Professor

~~HEAD~~

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Civil Engineering

Asst Professor

P. DHANABAL

Signature of the supervisor

*[Handwritten signature]*

guidance and supervision.

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

- M.SUMANTH  
19AK5A0175
- K.SRINIVASULU  
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- T. DAMODHARAM  
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- R. ACHYUTH  
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19AK5A0142

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

**CERTIFICATE**



**A PROJECT REPORT ON  
TRAFFIC SPOT SPEED STUDIES AT SRINIVASA SETU**

*Submitted to*

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR,**

**ANANTAPURAM.**

*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*

**P. SUSHMA (18AKIA0117)**

**B. SAGAR NAIK (19AK5A0122)**

**K. SABEENA (18AKIA0111)**

**B. SIVA SAI (18AKIA0114)**

**S. SANDEEP (18AKIA0112)**

**S. SAMEER M.TECH.**

*Under the Supervision of*

**Assistant professor, Department of Civil Engineering,**



**DEPARTMENT OF CIVIL ENGINEERING**

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES**

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

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**2021-2022**



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**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 fulfillment of the requirement for The award of the "Bachelor of Technology in Civil Engineering" during the Academic year 2021-2022

Submitted By

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Date: 2-07-2022

A Project Report

On

“DESIGN & CONSTRUCTION OF GRAVITY DAM(MINIATURE) BY  
USING HIGH-STRENGTH 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

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*During the Academic year 2021-2022*

Submitted By :

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M. DILLIRANI (19AK5A0143)

T. HARISH (19AK5A0146)

J. HARSHITHA (19AK5A0147)

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DEPARTMENT OF CIVIL ENGINEERING

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**DEPARTMENT OF CIVIL ENGINEERING**  
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This is to certify that the work contained in the report entitled "DESIGN & CONSTRUCTION OF GRAVITY DAM (MINIATURE) BY USING HIGH-STRENGTH CONCRETE" is the original work done by

**S. SHARUKH ALI**  
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Date: 02-07-2022



A PROJECT REPORT  
ON

“PRELIMINARY INVESTIGATION ON HIGH STRENGTH  
CONCRETE BY USING GGBS AND SILICA FUME”

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 2020-2021

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M.BASAVARAJU (19AK5A0135)

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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



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ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE  
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DEPARTMENT OF CIVIL ENGINEERING

**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. SAJYA SULTHANA**

**A. KRISHNA TEJA**

**G. SAI**

**W. CHANDAN VENKAT SAI**

19AK5A0103

19AK5A0123

19AK5A0111

19AK5A0124

Under the esteemed guidance of

**B. BABY, M.Tech**

Assistant professor, Department of Civil Engineering



**DEPARTMENT OF CIVIL ENGINEERING**

**ANNAACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES  
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B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi. Accredited by  
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2021-2022



EXTERNAL EXAMINER

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Civil Engineering

Asst Professor

AIT'S, Tirupati-517 520

Dept. of Civil Engg.

Signature of the Head of the Department

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INTERNAL EXAMINER

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B. Baby

Civil Engineering

Asst Professor

B. BABY

Signature of the supervisor

*[Handwritten Signature]*  
B. Baby

by them under my guidance and supervision.

is being submitted in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING in Annamacharya Institute of Technology and Sciences, Tirupati, is a record of bonafide work carried out

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D. NAVEEN

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H. SAJIVA SULTHANA

AGGREGATE CONCRETE", done by

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

**CERTIFICATE**



Project report on  
"ANALYSIS & DESIGN OF EARTHQUAKE RESISTANT BUILDING  
USING STAAD.Pro"  
Submitted in partial fulfillment of the requirements for the award of degree of  
BACHELOR OF TECHNOLOGY  
IN  
CIVIL ENGINEERING

(During the academic year 2021-2022)

Submitted By

18AKIA0118	-	T. TEJASWI
18AKIA0104	-	P. BHUVAN TEJA
18AKIA0110	-	M.RANJITH
18AKIA0124	-	V.VIGNESH
18AKIA0105	-	C.BRAMHA KUMAR

Under the esteemed guidance of

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Asst professor, Civil Engineering



Annamacharya Institute of Technology & Sciences, Tirupati (Autonomous)  
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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),  
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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 :

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- P. BHUVAN TEJA - 18AKIA0104
- M.RANJITH - 18AKIA0110
- V.VIGNESH - 18AKIA0124
- C.BRAMHA KUMAR - 18AKIA0105

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.

Mrs. MEENU SRI PRIYA M.Tech.  
 Assistant Professor, Civil Engineering  
 TRUPATI  
 GUIDE  
*Meenu Sri Priya*

HEAD OF THE DEPARTMENT  
 Dr. A. R. S. Srinivasulu Reddy  
 Professor, Civil Engineering  
 TRUPATI  
*[Signature]*

Submitted for the University viva-voice Examination held on 2/07/2022

*Meenu Sri Priya*  
 INTERNAL EXAMINER

*[Signature]*  
 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

BACHELOR OF TECHNOLOGY  
IN  
CIVIL ENGINEERING

During the Academic year 2021-2022o

Submitted By

U. SURESH  
- 18AK1A0116  
N. VAISHNAVI  
- 18AK1A0122  
V. SATHISH  
- 18AK1A0113  
M. BALA MANIKANTA  
- 18AK1A0101  
K. PRASANTH KUMAR  
- 18AK1A0108

Under the supervision of

Sri P. NARENDRA REDDY, M.Tech.

Assistant Professor,

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DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES:

TIRUPATI

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2021 - 2022

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND**

**SCIENCES (AUTONOMOUS) & TIRUPATI**

(Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu, T. V. B. 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 Act 1956.)

Tirupati- 517520.



**Certificate**

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 (18AKIA0116), N. VYSHNAVI (18AKIA0122), V. SATISH (18AKIA0113), M. BALA MANIKANTA (18AKIA0101), K. PRASANTH KUMAR (18AKIA0108) 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

DATE: 02-07-2022

INTERNAL EXAMINER

EXTERNAL EXAMINER

Signature of the Head of the Department

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

Dept. of Civil Engg.,

Assistant Professor

Civil Engineering

ATS, Tirupati-517520

**A PROJECT REPORT ON**

**EXPERIMENTAL INVESTIGATION OF CONTROLLED PERMEABLE**

**FORMWORKLINER ON THE MECHANICAL PROPERTIES OF**

**GEOPOLYMER CONCRETE.**

*Submitted in*

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANTAPUR**

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

**BACHELOR OF TECHNOLOGY IN**

**CIVIL ENGINEERING**

Submitted by

MODAMDARULU UMESH  
PALYAM NARASIMHA  
VONTERU BALA VENKATA SAI  
PEETALA THARUN TEJA  
ERIKALA MUNGA DAYANANDA  
18AK1A0121  
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18AK1A0120  
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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)**

(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.) Tirupathi-517520.

2021-2022



DATE: 2/7/2022

INTERNAL EXAMINER

*[Signature]*

EXTERNAL EXAMINER

*[Signature]*

Dr. K. THULASIRAJAN, M. Tech, Ph.D.,  
Associate Professor, Civil Engineering

Signature of the supervisor

*[Signature]*

Dept. of Civil Engg. (Ph.D.),  
M.T.S. Tirupat-517520  
Assistant Professor, Civil Engineering

Signature of the HEAD of the department

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This is to certify that the project work entitled, "A PROJECT REPORT ON EXPERIMENTAL INVESTIGATION OF CONTROLLED PERMEABLE FORMWORK LINDER ON THE MECHANICAL 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.

Certificate



CIVIL ENGINEERING

(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.

(AUTONOMOUS)

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

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 fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY  
IN CIVIL ENGINEERING

During the Academic year 2021-2022

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R. MARUTHI VARAPRASAD REDDY : 19AK5A0112

P. PAVAN SAI : 19AK5A0114

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DEPARTMENT OF CIVIL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES--TRUPATI

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2021-2022



**CERTIFICATE**

This is to certify that the work contained in 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

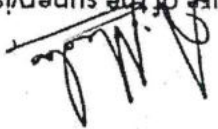
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**C.PREMENDRANATH** : 19AK5A0118

**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

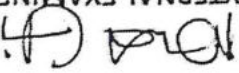
Signature of the supervisor  


**A. MADAN MOHAN**  
Asst Professor  
Civil Engineering

Signature of the Head of the Department  


**Dept. of Civil Engg.**  
**AITS, Tirupati-517 520**  
Asst Professor  
Civil Engineering

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

DATE: 02/07/22



A Report on

SURVEY CAMP

# EXPERIENCING 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 HEMA VATHI 19AK1A0108

G JAGADEESWAR REDDY 19AK1A0109

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  
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AITS, Tirupati.

Department of Civil Engineering

Assistant Professor

**E. NARASIMHULU** M.Tech

Signature of the supervisor



AITS, Tirupati.

Department of Civil Engineering

Assistant Professor

**A. ANIL** M.Tech. (Ph.D)

Signature of the Head of the Department



*my guidance and supervision.*

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|------------|---------------------|
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SURVEY", done by

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P SUREKHA 19AK1A0135

M SURENDRA NAIDU 19AK1A0136

G THARUN 19AK1A0137

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C VENKATESWARULU 19AK1A0140

N VIJAY KUMAR 19AK1A0141

K VINAY 19AK1A0142

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T VIVEKANANDA 19AK1A0144

Under the esteemed guidance of  
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**19AKIA0145**

**A YOGASREE**

**19AKIA0146**

**17AKIA0103**

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K CHANDRA KIRAN 19AK1A0103

N CHANDU 19AK1A0104

B CHANDU PRASANTH REDDY 19AK1A0105

K CHIRU KALYAN 19AK1A0106

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B PRUDHVI RAJ 20AK5A0127

M REVATHI 20AK5A0128

Y RUKESH 20AK5A0129

C SAI DHEERAJ REDDY 20AK5A0130

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)

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

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

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KOLKATA. A-grade awarded by AP Knowledge Mission. Recognized under sections 2(f) & 12(B)

2022-2023

of UGC Act 1956.) Tirupati- 517520.

**CERTIFICATE**



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

K V OMKARI 20AK5A0125

P PRAVEEN 20AK5A0126

B PRUDHVI RAJ 20AK5A0127

M REVATHI 20AK5A0128

Y RUKESH 20AK5A0129

C SAI DHEERAJ REDDY 20AK5A0130

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 bonafide 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. ANIL M.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*

SHAIK AZEEZ AHAMMAD 20AK5A0131

SHAIK KHAJA HUSSEN 20AK5A0132

SHAIK MANJOOR 20AK5A0133

SHAIK MUZAHIDDIN 20AK5A0134

U SHIREESHA 20AK5A0135

B SRINADH 20AK5A0136

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

Assistant professor, Department of Civil Engineering



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2022-2023



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Signature of the supervisor

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Assistant Professor

Department of Civil Engineering

AITS, Tirupati.

Signature of the Head of the Department

A. ANIL M.Tech, (Ph.D)

Assistant Professor

Department of Civil Engineering

AITS, Tirupati.

## CERTIFICATE



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*

V SUDHAKAR 20AKSA0137

B SUDHEER 20AKSA0138

S SURESH 20AKSA0139

S VARUN KUMAR REDDY 20AKSA0140

B VENKATA KRISHNA 20AKSA0141

G VENKATA NARAYANA REDDY 20AKSA0142

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

Assistant professor, Department of Civil Engineering



DEPARTMENT OF CIVIL ENGINEERING

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2022-2023

**CERTIFICATE**



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V SUDHAKAR 20AK5A0137

B SUDHEER 20AK5A0138

S SURESH 20AK5A0139

S VARUN KUMAR REDDY 20AK5A0140

B VENKATA KRISHNA : 20AK5A0141

G VENKATA NARAYANA REDDY 20AK5A0142

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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 M.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*

M VENKATESH PRAVEEN KUMAR 20AK5A0143

A VENU GOPAL

20AK5A0144

C VIJAY KUMAR

20AK5A0145

K VINOD KUMAR

20AK5A0146

K YAMINI

20AK5A0147

B YUGANDHAR

20AK5A0148

SENDIL KUMAR MURALI KRISHNA

20AK5A0149

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

**CERTIFICATE**



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A VENU GOPAL

20AK5A0144

C VIJAY KUMAR

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K VINOD KUMAR

20AK5A0146

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20AK5A0147

B YUGANDHAR

20AK5A0148

SENDIL KUMAR MURALI KRISHNA

20AK5A0149

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*[Signature]*  
Signature of the supervisor

E. NARASIMHULU M.Tech

Assistant Professor

Department of Civil Engineering

AITS, Tirupati.

*[Signature]*  
Signature of the Head of the Department

A. ANIL M.Tech, (Ph.D)

Assistant Professor

Department of Civil Engineering

AITS, Tirupati.

1.3.4 CE file no:3-Report of the field visit /  
sample photographs of the field projects



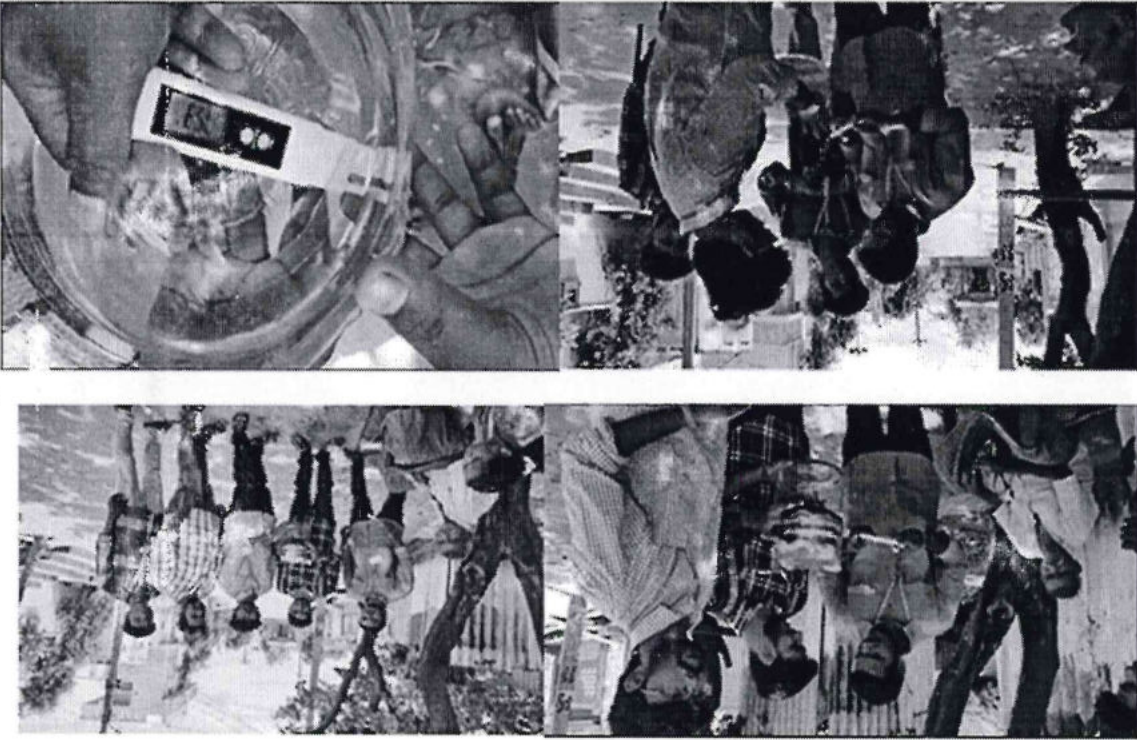
# Report of the field visit / sample photographs of the field projects

## 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..

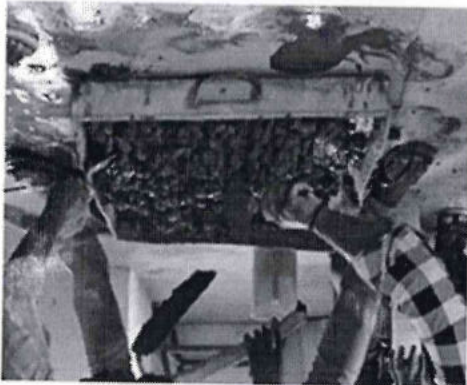


### Field Project

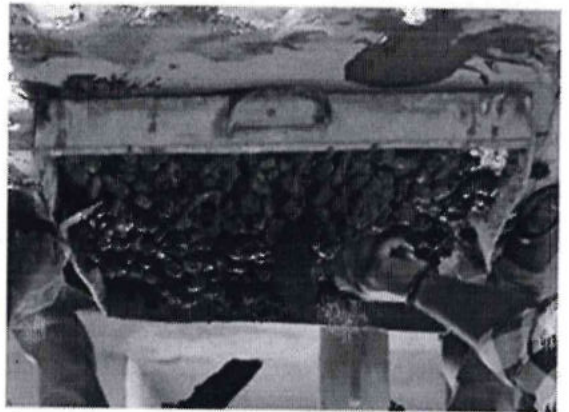
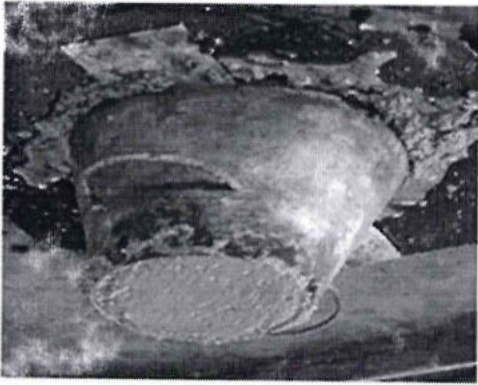
Final year civil engineering student's undergone field projects in their core subject area like determination of fresh and hardened properties of concrete, environmental engineering related projects and traffic volume related projects





















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

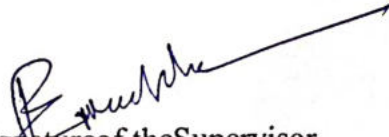
(Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu. Two B. Tech Programmes (CSE & ECE) are accredited by NBA, New Delhi. Accredited by NAAC with 'A' Grade, Bangalore. Accredited by Institution of Engineers (India), KOLKATA. A-grade awarded by AP Knowledge Mission. Recognized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


**Department of Civil Engineering**

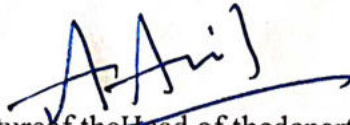


**CERTIFICATE**

**This is to certify that the project work entitled as the ,  
PREPARATION OF CONCRETE USING GOLD MINE  
WASTE, Done by S. CHARAN (20AK5A0105), A. GAYATHRI  
(20AK5A0112), N. BRAMHANANDHA REDDY(20AK5A0122), S.  
MUZAHIDDIN (20AK5A0134 ), M.V. PRAVEEN KUM (   
20AK5A0143) is being submitted in partial fulfilment of the requirements for  
the award of  
the degree of BACHELOR OF TECHNOLOGY in Department of 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 Supervisor  
**MR. E. NARASIMHULU**  
ASSISTANT PROFESSOR  
Department, Department of Civil Engineering

DATE: 22-08-22  INTERNAL EXAMINER

  
Signature of the Head of the department

**SRI .MR. A. ANIL**  
HEAD  
Head of the  
Department of Civil Engineering  
AITS, Tirupati - 517520

EXTERNAL EXAMINER



# ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

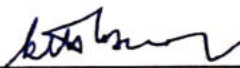
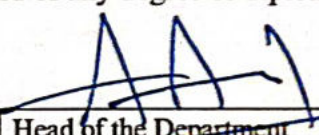
(AUTONOMOUS)

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## CERTIFICATE

This is to certify that the project work entitled, "SOLUTION TO ECOLOGICAL-HYDROLOGICAL PROCESSES IN ARID ENVIRONMENT" done by G.NEVIL KUMAR(20AK5A0124), G.MUNIGANGADHAR (20AK5A0121), G.MADHAN (20AK5A0118), C.DHANASEKHAR TEJA (20AK5A0108), B.SUDHEER (20AK5A0138) 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 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.

 Signature of the Supervisor		 Head of the Department
Dr. K. Thulasirajan M.Tech. Ph.d		A. Anil HEAD
Associate Professor, Civil Engineering		Assistant Professor Civil Engineering 4115, Tirupati-517 520

DATE: 30-06-22

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



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


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, "Effective utilization of Construction and demolition waste in Tirupati", done by G. Nevil kumar, REG NO. 20AK5A0124, G. Muni gangadhar, REG NO. 20AK5A0121, G. Madhan, REG NO. 20AK5A0118, C. Dhana shekhar Teja, REG NO. 20AK5A0108, B. Sudheer REG NO. 20AK5A0138, Submitted to the department of Computer Science and 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  
Mr A. Anil, M.Tech (Ph.D).  
Assistant Professor  
Dept. of Civil Engineering  
AITS, Tirupati  
Dept. of CE,  
AITS, Tirupati

  
Signature of the Supervisor

Date: 30-06-22

Place: Tirupathi.

  
Faculty Coordinator

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES  
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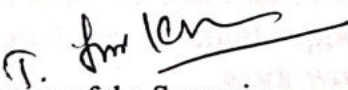
**CIVIL ENGINEERING**

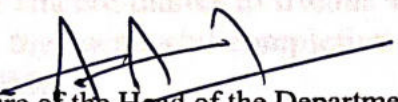


**CERTIFICATE**

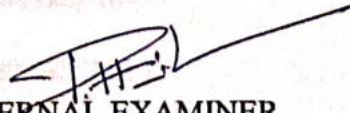
*This is to certify that the project work entitled, "**GREEN SMART BUILDING BY USING WASTE MATERIALS**", done by 20AK5A0(106,109,119,131,139) is being submitted in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING***

*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 Supervisor  
**T.SAI KRISHNA**  
(Asst Pro. M-Tech)

  
Signature of the Head of the Department  
**MR.A.ANIL**  
(Asst Pro.M-Tech)

DATE: 30-06-22

  
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**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES  
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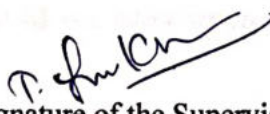
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**CIVIL ENGINEERING**



**CERTIFICATE**

*This is to certify that the project work entitled, “REVIEW AND ANALYSIS OF  
DROUGHT MONITORING, DECLARATION AND MANAGEMENT IN INDIA”, done by  
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award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING  
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Signature of the Supervisor  
**T.SAI KRISHNA**  
(Asst Prof. M.Tech)

  
Signature of the Head of the Department  
**A.ANIL**  
(Asst Prof. M.Tech)  
Dept. of Civil Engg.  
AITS, Tirupati-517 520

DATE: 30-06-22

  
INTERNAL EXAMINER



A  
Project Report on

## RECYCLING AND REUSE OF BUILDING MATERIALS

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

### BACHELOR OF TECHNOLOGY In CIVIL ENGINEERING

*Submitted by*

ANJALI VARIKOLLA  
JITHENDRABABU VELURU  
SHAIK KHAJA HUSSEN  
VARUN KUMAR REDDY SHANIVARAPU

20AK5A0101  
20AK5A0116  
20AK5A0132  
20AK5A0140

Under the esteemed guidance of  
UMASHANKARIS, ASSISTANT PROFESSOR



DEPARTMENT OF CIVIL ENGINEERING

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES  
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Tirupati- 517520.  
2017-2021

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Tirupati- 517520.

**Department of Civil Engineering**



**CERTIFICATE**

This is to certify that the project work entitled, "ROAD SAFETY AND ACCIDENT PREVENTION", done by VARUN KUMAR REDDY SHANIVARAPU (20AK5A0140), ANJALI VARIKOLLA (20AK5A0101), SHAIK KHAJA HUSSEN(20AK5A0132), JITHENDRABABU VELURU (20AK5A0116) is being submitted in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in Department of 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 Supervisor  
**UMASHANKAR S**  
Assistant professor  
Department of Civil Engineering.

Signature of the Head of the department  
**E. NARASIMHA REDDY**  
Head of the Dept. of Civil Engng.  
Department of Civil Engineering,  
Tirupati-517520.

DATE: 20-08-22

INTERNAL EXAMINER

EXTERNAL EXAMINER



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

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

**DEPARTMENT OF CIVIL ENGINEERING**

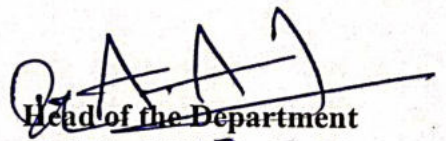


**CERTIFICATE**

Certified that this is a bonafiderecord of the socially relevant project report entitled, "RECYCLING PLASTIC WASTE INTO HDPC PAVING TILES", done by Ms. P. CHANDINI - (20AK5A0104), K. DINESH - (20AK5A0110), V.M. GANESH BABU - (20AK5A0111), V. GAUTHAM - (20AK5A0113), M.MOUNICA - (20AK5A0120) 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.

Signature of the Supervisor  
Date: 22/08/22  
Place: Tirupathi.

Faculty Coordinator

  
Head of the Department  
Dr.K.Narasimhulu, M.Tech, (Ph.D).  
Professor and Head  
Dept. of Civil Engg.  
Dept. of Civil Engineering,  
AITTS, Tirupati-517520  
AITTS, Tirupati




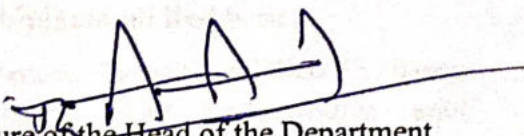
DEPARTMENT OF CIVIL ENGINEERING



**CERTIFICATE**

This is to certify that the project work entitled, "**PARTIAL REPLACEMENT OF BIOMEDICAL WASTE ASH IN CONCRETE**", done by **P. JAHNAVI, U.SIREESHA, C. DHEERAJ, B. PRUDHVI RAJ, K. HEMASAI KRISHNA** is being submitted in partial fulfillment 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 Supervisor  
**Mr. SHYAM SUNDAR SIR,**  
Assistant Professor  
Civil Engineering

  
Signature of the Head of the Department  
**Mr. NARASIMHULU SIR**  
Head of the Department  
Civil Engineering

DATE: 22.08.22

  
INTERNAL EXAMINER

EXTERNAL EXAMINER

**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  
2021-2022



**CERTIFICATE**

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

submitted by

<b>K,HEMASAI KRISHNA</b>	-	<b>20AK5A0114</b>
<b>B.PRUDHVI RAJ</b>	-	<b>20AK5A0127</b>
<b>P.JAHNAVI</b>	-	<b>20AK5A0115</b>
<b>U.SIREESHA</b>	-	<b>20AK5A0135</b>
<b>C.SAI DHEERAJ REDDY</b>	-	<b>20AK5A0130</b>

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 30-06-2022.

*Meenu Sri Priya*  
**GUIDE**  
**Mrs. MEENU SRI PRIYA** M.Tech.,  
Assistant Professor, Civil Engineering  
AITS TIRUPATI

*AAA*  
**HEAD OF THE DEPARTMENT**  
**Mr. A. ANIL, M. Tech, (Ph.D.)**  
Assistant Professor, Civil Engineering  
AITS TIRUPATI



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

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**CIVIL ENGINEERING**



**CERTIFICATE**

*This is to certify that the project work entitled, "GREEN SMART BUILDING BY USING WASTE MATERIALS", done by 20AK5A0(117,103,107,133,129) is being submitted in partial fulfillment 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 Supervisor  
Madhan Mohan  
(Asst Pro. M-Tech)

Signature of the Head of the Department  
MR.A. ANEAD  
(Asst Pro. M-Tech)  
Dept. of Civil Engg.  
AITS, Tirupati-517 520

DATE: 20/08/22

INTERNAL EXAMINER

**ACKNOWLEDGEMENTS**



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

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Tirupati- 517520.

**CIVIL Engineering**

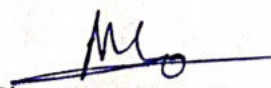


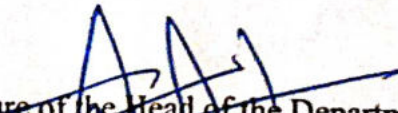
**CERTIFICATE**

*This is to certify that the project work entitled, "WIND TURBINE", done by*

<b>K.Kranthimai</b>	<b>20AK5A0117</b>
<b>P.Badri</b>	<b>20AK5A0103</b>
<b>G.Dhamu</b>	<b>20AK5A0107</b>
<b>S.Manjoor</b>	<b>20AK5A0133</b>
<b>Y.Rukesh</b>	<b>20AK5A0129</b>

*is being submitted in partial fulfillment 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 Supervisor  
Mr.A.Madan Mohan,  
CIVIL ENGINEERING.

  
Signature of the Head of the Department  
Mr. B. Narasimulu,  
Dept. of Civil Engg.  
CIVIL ENGINEERING.  
AITS, Tirupati-517 520



# ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

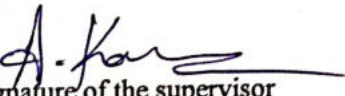
(AUTONOMOUS)

(Approved by AICTE, New Delhi & Permanent Affiliation to JNTUA, Anantapuramu. Two B. 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 Act 1956.) Tirupati- 517520.

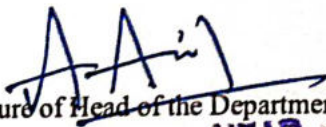


## CERTIFICATE

This is to certify that the project work entitled, "**TREND ANALYSIS OF GROUND WATER LEVELS IN CHITTOR DISTRICT**" done by **B.SRINADH (20AK5A0136), P. NARASIMHA (20AK5A0123), S.MURALI KRISHNA (20AK5A0149), P. PRAVEEN (20AK5A0136), A.ARUN KUMAR(20AK5A0102)** 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 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.


  
Signature of the supervisor

Ms. A.KALPANA  
Assistant professor  
Civil Engineering

  
Signature of Head of the Department  
**HEAD**  
Mr. A. ANIL  
Dept. of Civil Engg.  
Assistant Professor  
ATPS, Tirupati-517 520  
Civil Engineering

DATE: 22-08-22

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

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


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

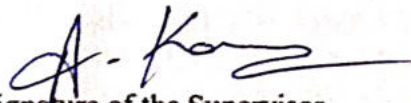
**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**

Certified that this is a bonafiderecord of the socially relevant project report entitled, "SMART PARKING MANAGEMENT SYSTEM", done by Ms. BHOGYAM SRINADH, REG NO. 20AK5A0136, PENUGONDA NARASIMHA, REG NO. 20AK5A0123, POLEPALLI PRAVEEN, REG NO. 20AK5A0126, SAPPOGU ARUN KUMAR, REG NO. 20AK5A0102, MURALI KRISHNA SENDIL KUMAR, REG NO. 20AK5A0149 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 ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES::TIRUPATI, Ananthapur during the year 2019-2023.

  
Head of the Department  
Mr A. Anil M.Tech. (Ph.D)  
Assistant Professor  
Dept. of Dept. of  
CIVIL ENGINEERING  
517520  
Tirupati  
Tirupati

  
Signature of the Supervisor  
Place: Tirupathi,

Faculty Coordinator Date: 30-06-22



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

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**CIVIL ENGINEERING**



**CERTIFICATE**

*This is to certify that the project work entitled, "**SOLAR PANELS ON CANALS SURFACE & FLOATING ON WATER SURFACE**", done by 20AK5A0(146,144,142,145,147,) is being submitted in partial fulfillment 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 Supervisor  
**B. Baby**  
(Asst Professor. M-Tech)

Signature of the Head of the Department  
**A. Anil** HEAD  
(Prof. M-Tech, Phd)  
Dept. of C.M. Engrg  
AITS, Tirupati-517 520

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

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**CIVIL ENGINEERING**



**CERTIFICATE**

*This is to certify that the project work entitled, "GREEN SMART BUILDING BY USING WASTE MATERIALS", done by 20AK5A0(146,144,145,142,147) is being submitted in partial fulfillment 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]*  
Signature of the Supervisor  
**B.Baby**  
(Asst Pro. M-Tech)

*[Signature]*  
Signature of the Head of the Department  
**MR.A.ANIL**  
HEAD  
Dept. of Civil Engg.  
(Asst Pro.M-Tech)  
AITS, Tirupati-517 520

DATE: 20-08-22

*[Signature]*  
INTERNAL EXAMINER

**ACKNOWLEDGEMENTS**



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

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**CIVIL ENGINEERING**



**CERTIFICATE**

*This is to certify that the project work entitled, "ZERO ENERGY BUILDING", done by P. Surekha[19AK1A0135], Shaik Salman[19AK1A0132], P. Sarala[19AK1A0130], K. Vinay [19AK1A0142], D. Lakshmikar[19AK1A0116] is being submitted in partial fulfillment 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 Supervisor

**Dr. K. Narasimhulu** M.Tech., (Ph.D)  
Professor,  
CIVIL ENGINEERING.

Signature of the Head of the Department

**Sri. Mr. A. Anil** M.Tech, (Ph.D)  
Assistant Professor  
Head of the department,  
CIVIL ENGINEERING.  
Dept. of Civil Engg.  
AITS, Tirupati-517 520

DATE: 22/08/22 INTERNAL EXAMINER

EXTERNAL EXAMINER



**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES  
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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.

**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.JAYANTHI(19AK1A0113),D.RAJU(19AK1A0124),M.SURENDRA NAIDU(19AK1A0136),C.VENKATESWARLU(19AK1A0140),S.ASWATH(17AK1A0103) is being submitted in partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING DEPARTMENT** 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.

**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.I.T.S, TPT. A.I.T.S, TPT.**

*J. Guru*

*A.A.N.*  
HEAD  
Dept. of Civil Engg.  
AITS, Tirupati-517 520



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

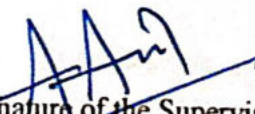
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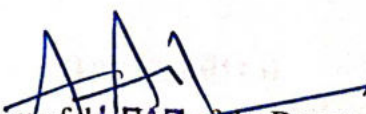
**CIVIL ENGINEERING**




**CERTIFICATE**

This is to certify that the project work entitled, "WATER PURIFICATION USING NATURAL RESOURCES", done by Y.JAYA PRIYA (19AK1A0114), R.JAYANTH (19AK1A0112), V.SAICHARAN (19AK1A0126), Y.P.JANARDHAN (19AK1A0110), V.S.TEJA KARTHIKEYA (19AK1A0138) is being submitted in partial fulfillment 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 Supervisor  
Sri. Mr. A. Anil M.Tech, (Ph.D)  
ASSISTANT PROFESSOR,  
CIVIL ENGINEERING.

  
Signature of the Head of the Department  
Dept of Civil Engg,  
HEAD OF THE DEPARTMENT,  
CIVIL ENGINEERING,  
Tirupati-517520.

DATE: 20-06-22  INTERNALEXAMINER

 EXTERNALEXAMINER



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

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Tirupati- 517520.

**CIVIL ENGINEERING**

**CERTIFICATE**

*This is to certify that the project work entitled, "READY MIX CONCRETE" done by*

V MANASA	(19AK1A0117)
D KALAVATHI	(19AK1A0115)
J HEMAVATHI	(19AK1A0108)
G PREMA KUMARI	(19AK1A0122)
G SANDEEP KUMAR REDDY	(19AK1A0129)

*is being submitted in partial fulfillment 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.*

*D. Nirosha*  
Signature of the Supervisor

Mrs.D.Nirosha M.Tech(PhD)

Assistant professor

*A. Anil*  
Signature of the Head of the Department

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

HEAD OF THE DEPARTMENT

CIVIL ENGINEERING

Dept. of Civil Engg.

AITS, Tirupati-517 520

EXTERNAL EXAMINER

DATE: 22/08/22 INTERNAL EXAMINER



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

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Tirupati- 517520.

**CIVIL ENGINEERING**

**CERTIFICATE**

*This is to certify that the project work entitled, "REINFORCED CONCRETE" done by*

<b>V MANASA</b>	<b>(19AK1A0117)</b>
<b>D KALAVATHI</b>	<b>(19AK1A0115)</b>
<b>J HEMAVATHI</b>	<b>(19AK1A0108)</b>
<b>G PREMA KUMARI</b>	<b>(19AK1A0122)</b>
<b>G SANDEEP KUMAR REDDY</b>	<b>(19AK1A0129)</b>

*is being submitted in partial fulfillment 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.*

*D. Nirosha*  
Signature of the Supervisor

Mrs.D.Nirosha M.Tech(PhD)

Assistant professor

*A. Anil*  
Signature of the Head of the Department

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

HEAD OF THE DEPARTMENT  
CIVIL ENGINEERING

HEAD  
Dept. of Civil Engg.  
AITS, Tirupati-517 520  
EXTERNAL EXAMINER

*[Signature]*  
DATE: 22/08/22 INTERNAL EXAMINER



**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.

**CIVIL ENGINEERING**



**CERTIFICATE**

*This is to certify that the project work entitled, **COMPARITIVE ANALYSIS  
ON VARIOUS PROPERTIES OF PREVIOUS CONCRETE WITH  
CONVENTIONAL CONCRETE**, done by*

<b>V MANASA</b>	<b>(19AK1A0117)</b>
<b>D KALAVATHI</b>	<b>(19AK1A0115)</b>
<b>J HEMAVATHI</b>	<b>(19AK1A0108)</b>
<b>G PREMA KUMARI</b>	<b>(19AK1A0122)</b>
<b>G SANDEEP KUMAR REDDY</b>	<b>(19AK1A0129)</b>

*is being submitted in partial fulfillment 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.*

*D. Nirosha*  
Signature of the Supervisor  
Mrs.D.Nirosha  
M.Tech(Ph.D)  
Assistant professor

*[Signature]*  
Signature of the Head of the Department  
Sri.Mr.A.Anil M.Tech(Ph.D)  
HEAD OF THE DEPARTMENT  
CIVIL ENGINEERING  
Dept. of Civil Engg,  
AITS, Tirupati-517 520

DATE: 22/08/22

*[Signature]*  
INTERNAL EXAMINER

EXTERNAL EXAMINER



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

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.

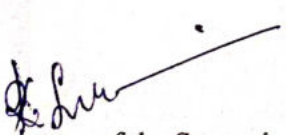
A.


  
Head of the Department

Anil

Assistant Professor

HEAD  
Dept of CIVIL,  
AITS, Tirupati

  
Signature of the Supervisor

  
Faculty Coordinator

Date: 30-06-22

Place: Tirupathi.



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

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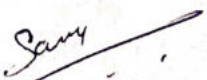
Tirupati- 517520.

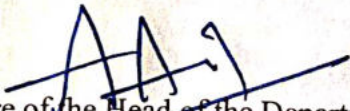
**CIVIL ENGINEERING**




**CERTIFICATE**

*This is to certify that the project work entitled, "INTELLIGENT TRANSPORT SYSTEM", done by G.JAGADEESWARREDDY(19AK1A0109), L.NIRANJANREDDY(19AK1A0119),M.GANESH(19AK1A0107),P.VIVEK(19AK1A0121),B.CHANDHU PRASHANTHREDDY(19AK1A0105), is being submitted in partial fulfillment 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 Supervisor  
**Sri. Mr. S. Sameer**  
ASSISTANT PROFESSOR,  
CIVIL ENGINEERING.

  
Signature of the Head of the Department  
**Sri. Mr. A. Anil** (Assistant professor)  
HEAD OF DEPARTMENT,  
CIVIL ENGINEERING.  
Tirupati-517520

  
DATE: 22-08-22 INTERNAL EXAMINER

  
EXTERNAL EXAMINER

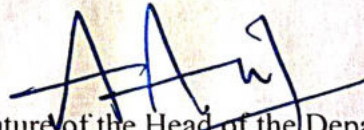


## CERTIFICATE

This is to certify that the socially relevant project work entitled, **Utilization of waste plastic in fabrication of plastic soil bricks**, done by **K. Vinay, p. Reddy vera barath, Mohammed jaheeruddin, N. Vijay kumar, A. Siri sai** is being submitted in partial fulfilment 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 socially relevant project report have not been submitted to any other university or institute for the award of any degree or diploma.



Signature of the Supervisor  
**Ms. VISHNU PRIYA,**  
Assistant Professor,  
Civil Engineering



Signature of the Head of the Department  
**Mr. A. ANIL,**  
Head of the department,  
Civil Engineering.

025 715-11-HEAD, CIVIL  
Dept. of Civil Engg.  
AIT - HEAD-517 520

INTERNAL EXAMINER

DATE: 22-08-22



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

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, **COMPARATIVE STUDY ON CONVENTIONAL AND GREEN BUILDING CONSTRUCTION** done by **K. ANAND BABU - (19AK5A0101), S. ASISH KUMAR - (19AK5A0102), N. CHANDU - (19AK5A0104), K. SAI RITHVIK REDDY - (19AK5A0127) and K. SHALINI - (19AK5A0133)** 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, Ananthapur during the year 2019-2023.

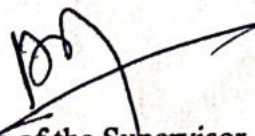
  
Head of the Department

A. Anil

Head of the Department

Dept. of Civil Engg.

AITs, Tirupati-517520  
AITs, Tirupati

  
Signature of the Supervisor

  
Faculty Coordinator



**Certificate from Official of the Community**

This is to certify that ..... L. Pravalika ..... Reg. No  
20AKH0143 of Annamaacharya Institute of Technology &  
Sciences, Tirupati underwent community service in Tirupati from  
8/Aug/22 to 8/sep/22.


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

  
.....  
Agriculture/Agriculture Assistant  
Authorized Signatory with Seal  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

Certificate from Official of the community

This is to certify that M. Priya Veni (Name of the  
Community service volunteer) Reg. no 20AK1A0145 of  
Annamacharya Institute of Technology & science (Name of the college) underwent  
community service in Vedanthapuram, Tirupati (Dist) (Name of the community)  
From 4/08/2022 to 8/09/2022

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

  
DIGITAL ASSISTANT With Date and  
GRAMA SACHIVALAYAM-01  
Seal  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL.



**Certificate from Official of the Community**


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).



Autho **DIGITAL ASSISTANT** with Date and  
Seal **GRAMA SACHIVALAYAM-01**  
**KARANAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

**Certificate from Official of the Community**

This is to certify that IRAMA KRISHNA Reg. No **20AK1AO147** of **Annamacharya Institute of Technology & Sciences (Autonomous) ,Tirupati** underwent community service in **URUKUNDA 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 AMENITIES SECRETARY  
Secretariat Code 1012051  
Ward No. 26  
TIRUPATI MUNICIPAL CORPORATION  
Authorized Signatory with Date and  
Seal

**Certificate from Official of the Community**

This is to certify that ..R..Ramana.Naik..... Reg. No  
20A/WA/01/18 of ...Annamacharya Institute of ...Technology  
& Sciences, Tirupati underwent community service in ..... from  
4/AUG/22.... to ...8/SEP/22....

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

  
DIGITAL ASSISTANT  
Authorized Signatory with Seal  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL



Certificate from Official of the community

This is to certify that ..... P. Ravi Teja ..... (Name of the  
Community service volunteer) Reg. no ..... 20AK1A0149 ..... of  
Annamacharya Institute of Technology & Science (Name of the college) underwent  
community service in ..... Thanapalli Tirupati Dist ..... (Name of the community)  
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 Good (Satisfactory/Good).

A. J. S.

**DIGITAL ASSISTANT**  
Authorized signatory with Date and  
**GRAMA SACHIVALAYAM-01**  
Seal **KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

**Certificate from Official of the Community**

This is to certify that **G.REDDY THANUJA** Reg. No **20AK1A0150** 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).

*A. Thar.*

AGRICULTURE/AGRICULTURE ASSISTANT  
Authorized Signatory with Date and  
SEAL  
KARAKAMBADI GRAMA PANCHAYAT  
VENIGUNTA MANDAL

Certificate from Official of the community

This is to certify that P. RUPESH (Name of the  
Community service volunteer) Reg. no 20AKIA0151 of  
Annama Charya Institute of Technology & Sciences (Name of the college) underwent  
community service in Tirupathi Tirupathi Dist (Name of the community)  
From 08/08/2022 to 08/09/2022

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



Authorized Signatory with Date and

**DIGITAL ASSISTANT**  
Seal **GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**



Certificate from Official of the community

This is to certify that P. G. SAI ABHIJITH (Name of the  
Community service volunteer) Reg. no 20AKLA0152 of  
Annamacharya Institute of Technology & Sciences (Name of the college) underwent  
community service in Tiruchanur, Tirupathi Dist (Name of the community)  
From 08/08/2022 to 08/09/2022

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

A. J. S.

Authorised Signatory with Date and  
Seal  
DIGITAL ASSISTANT  
GRAMA SACHIVALAYAM-01  
KAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL.

**Certificate from Official of the Community**

This is to certify that ..... N. Sai Ram ..... Reg. No  
20AK1A0153 of Annamaacharya Institute of Technology &  
Sciences, Tirupati underwent community service in Tirupati from  
4/Aug/22 to 8/sep/22

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

A. Thar  
Agriculture/Agriculture Assistant  
Authorized Signatory with Seal  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

**Certificate from Official of the Community**

This is to certify that **P.SAI SUHASINI** Reg. No **20AK1A0156** 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).




Authorised Signatory with Date and  
**DIGITAL ASSISTANT**  
**GRAMA SACHIVALAYAM-01**  
Seal **KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**



**Certificate from Official of the Community**

This is to certify that S.SAI KUMAR REDDY Reg. No **20AK1A0157** 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).



AGRICULTURE/AGRICULTURE ASSISTANT  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

**Certificate from Official of the Community**

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).

*A. Tharun*

Authorised Signatory with Date and  
HORTICULTURE/AGRICULTURE ASSISTANT  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

**Certificate from Official of the Community**

This is to certify that A. Sathish kumar Reg. No 2024/0159 of Annamacharya Institute of Technology & Science (A.V.C.A.) underwent community service in Tirupati from 4-8-2024 to 8-8-2024

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

A. J. N.  
DIGITAL ASSISTANT with Seal  
Authorized Signatory  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL.



**Certificate from Official of the Community**

This is to certify that P. SHANMUK (Name of the Community Service Volunteer) Reg. No. 20AKIA0160 of Annamacharya Institute (Name of the College) underwent community service in Kovur (Name of the Community) from 04/08/22 to 08/09/22.

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

*A. Thar*

Authorised Signatory  
Horticulture/AGRICULTURE ASSISTANT  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

## Certificate from Official of the Community

This is to certify that G. SHASHANK (Name of the Community Service Volunteer) Reg. No. 20AKIA01G1 of ANNAMACHARYA Institute (Name of the College) underwent community service in Guntakal (Name of the Community) from 04/08/2022 to 08/09/2022.

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



AGRICULTURE/AGRICULTURE ASSISTANT  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

with Date and Seal

**Certificate from Official of the Community**

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).

*A. Thas*

AGRICULTURE/AGRICULTURE ASSISTANT  
Authorized Signatory with Date and  
GRAMA SACHIVALAYAM  
KARAKAMBADI GRAMA PANCHAYAT  
SEAL  
VENIGUNTA MANDAL



**Certificate from Official of the Community**

This is to certify that .....*Y. Suresh Kanth*..... Reg. No  
*2020AKIAA164* of .....*Anna Maria Charya*..... Institute..... of .....*technology*  
*7*..... science..... underwent community service in .....*spokato program* from  
*8-8-2022* to .....*8-9-2022*.....

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

*A. Thas*

**Authorized Signatory with Seal**  
**AGRICULTURE/AGRICULTURE ASSISTANT**  
**GRAMA SACHIVAEYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL**

## Certificate from Official of the Community

This is to certify that G. Sri Latha..... Reg. No. Sciences  
SAKIA/165 of Annamacharya Institute of Technology and underwent  
community service in Lawpate 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 Good..... (Satisfactory/Good).

A. Thar  
Agriculture/Agriculture Assistant  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

**Certificate from Official of the Community**

This is to certify that **A.SUPRAJA** Reg. No **20AK1A0166** 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).

  
Agriculture / Agriculture Assistant  
Authorized Signatory with Date and  
GRAMA SACHIVALAYAM-01  
KARAYAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL



**Certificate from Official of the Community**


This is to certify that **K.SUPRAJA** Reg. No **20AK1A0167** 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).

*J. Thar*

AGRICULTURE/AGRICULTURE ASSISTANT Date and  
Authorized Signatory  
GRAMA SACHIVALAYAM-01  
KHAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

**Certificate from Official of the Community**

This is to certify that **M.TEJA KUMAR** Reg. No **20AK1A0168** 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).

  
Authorized Signatory with Date and  
**DIGITAL ASSISTANT**  
**GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

**Certificate from Official of the Community**

This is to certify that K.UDAY KIRAN Reg. No **20AK1A0169** 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).



Authentic Signatory with Date and

**DIGITAL ASSISTANT**

**GRAMA SACHIVALAYAM-01**


**KARAKAMBADI GRAMA PANCHAYAT**

**RENIGUNTA MANDAL.**



**Certificate from Official of the Community**

This is to certify that E.VENKATA DINESH KUMAR Reg. 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).

  
DIGITAL ASSISTANT  
Authorized Signatory with Date and  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL.

## Certificate from Official of the Community

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).

  
AGRICULTURE/AGRICULTURE ASSISTANT  
Authorized Signatory with Seal  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

## Certificate from Official of the Community

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).



Authorized Signatory with Seal  
TIRUPATI URBAN MANDAL  
TIRUPATI (DIST.), A.P.



## Certificate from Official of the community

This is to certify that N.VIJAY 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  
TIRUPATI MUNICIPAL CORPORATION

Authorized Signatory with Date and Seal

**Certificate from Official of the Community**

This is to certify that ..... K. VINAY ..... Reg. No  
20A14AD17 of ANNAMACHARYA INSTITUTE OF TECHNOLOGY  
& SCIENCES, ANAPATI underwent community service in Tirupathi from  
4/AUG/22 to 8/SEP/22.

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

  
Agriculture/AGRICULTURE ASSISTANT With Seal  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

## Certificate from Official of the community

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

*BK*


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

Authorized Signatory with Date and Seal



## Certificate from Official of the Community

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).

  
Authorized Signatory with Seal  
DIGITAL SIGNATURE  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL.

## Certificate from Official of the Community

This is to certify that.....T. Surya.....Reg. No ..21AK5A0172..... of Anomacharya Institute of Technology & Sciences (Autonomous), Tirupat underwent community service at Venkalapuram from 4-8-22 to 8-9-2022.

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

  
DIGITAL ASSISTANT with Seal  
Authorized Signatory  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

Certificate from Official of the community

This is to certify that K. SWATHI (Name of the  
Community service volunteer) Reg. no 21ASA0173 of  
Annamacharya Institute of Technology & Sciences (Name of the college) underwent  
community service in Allapalli village, Sri Sathya Sai Dist. (Name of the community)  
From 05/08/22 to 08/09/2022.

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



Authorised Signatory in Date and


Seal **DIGITAL ASSISTANT**  
**GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**



**Certificate from Official of the Community**

This is to certify that ..... S. Usman ..... Reg. No. 21AF5A0174 of  
..... Annama charya Institute of Technology & Sciences, Tirupati  
underwent community service in venkataswaram 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 ..... good ..... (Satisfactory/Good).

  
Authorized Signatory with Seal  
DIGITAL SIGNATURE  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

## Certificate from Official of the Community

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).


  
DIGITAL ASSISTANT  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

Authorized Signatory with Seal

## Certificate from Official of the Community

This is to certify that B. Vinay Kumar..... Reg. No 21.AK5A0176.. of  
Annamacharya Institute of Technology & Sciences, Tirupathi.....  
underwent community service in Venkatapuram 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 Good..... (Satisfactory/Good).

  
DIGITAL ASSISTANT  
Authorised Signatory with Seal  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL.



## Certificate from Official of the Community

This is to certify that **T.Vineetha** 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

**WARD ADMINISTRATIVE SECRETARY**

Secretariat Code : 1012001

Ward No. 1/1

**TIRUPATI MUNICIPAL CORPORATION**

Certificate from Official of the Community

This is to certify that G. Vishnu vardhan (Name of the  
Community Service Volunteer) Reg No 21AK5A0178 of  
Annamma charya Institute of Technology and Science (Name of the College)  
underwent community service in Chennur, Kadapa (Dist) (Name of the  
Community) from 4/08/2022 to 8/09/2022

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

*Saijuna*  
03/11/2022

MANDAL REVENUE INSPECTOR  
CHENNUR MANDAL

KADAPA  
Authorized Signatory with Date and  
Seal

**Certificate from Official of the Community**

This is to certify that ..... D. Lokesh ..... Reg. No. 21AK5A0179 of  
Annamacharya institute of technology, Tirupati,  
underwent community service in Venkatapuram from 4/8/2022 to 8/9/2022

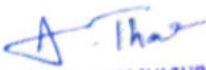
The overall performance of the Community Service Volunteer during his/her community  
service is found to be ..... Good ..... (Satisfactory/Good).

  
**DIGITAL ASSISTANT** Authorized Signatory with Seal  
**GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**



**Certificate from Official of the Community**

This is to certify that **B. RAJA KUMAR** Reg. No **21AK5A0180** 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).

  
HORTICULTURE/AGRICULTURE ASSISTANT  
Authorized Signatory with Date and  
Seal KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

**Certificate from Official of the Community**

This is to certify that **B SIVA SANKAR** Reg. No **21AK5A0181** 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).

  
HORTICULTURE/AGRICULTURE ASSISTANT  
Authorized Signatory with Date and  
GRAMA SACHIVALAYAM-01  
Seal  
KAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

## Certificate from Official of the Community

This is to certify that ..... Y. Vamsi ..... Reg. No  
21AKCA0182 ..... of ..... Annamacharya Institute of Technology & Sciences  
S. V. K. P. U. ..... underwent community service in Venkatapuram ..... 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 ..... Good ..... (Satisfactory/Good).



AGRICULTURE/AGRICULTURE ASSISTANT  
Authorized Signatory with Seal  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL



**Certificate from Official of the Community**

This is to certify that ..... G. Rajith ..... Reg. No  
..... 19AK120 of ..... Annamacharya Institute of Technology  
..... & Science ..... underwent community service in ..... Vikarapur from  
4-2-22 ..... to ..... 8-9-22 .....

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



.....  
Authorized Signatory with Seal  
AGRICULTURE/AGRICULTURE ASSISTANT  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

**Certificate from Official of the Community**

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).




Authorized Signatory with Date and

**DIGITAL ASSISTANT**  
Sec **GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

**Certificate from Official of the Community**

This is to certify that **S AMRUTHA** Reg. No **21AK5A0102** 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).

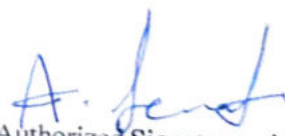
  
WARD ADMINISTRATIVE SECRETARY  
Secretariat Code : 1012067  
Ward No. \_\_\_\_\_  
TIRUPATI MUNICIPAL CORPORATION  
Authorized Signatory with Date and  
Seal



**Certificate from Official of the Community**

This is to certify that.....M. ANUPAMA.....(Name of the  
Community Service Volunteer) Reg No:.....21AK5A0103..... Of  
Annamacharya Institute of Technology & Science Name of the  
College) underwent Community Service in.....Dinne Deva rapadu.....(Name of the  
Community) 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 that **E Aravind** Reg. No **21AK5A0104** of **Annamacharya Institute of Technology & Sciences (Autonomous) ,KURNOOL DIST**

underwent

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  
Authorized Signatory, Se Deo and  
Renigunta Mandal Chittoor Dist.  
Seal

#### ACKNOWLEDGEMENTS

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. NADHAMUNI 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.

**Certificate from Official of the Community**

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).

  
Authorized Signatory with Date and  
**DIGITAL ASSISTANT**  
**GRAMA SACHIVALAYAM-01**  
**KARSAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**



**Certificate from Official of the Community**

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).



Authorized Signatory with Date and

Seal **DIGITAL ASSISTANT**  
**GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

**Certificate from Official of the Community**

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).

*A. J. S.*

Authorised Signatory with Date and  
**DIGITAL ASSISTANT**  
Seal **GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

Certificate from Official of the Community

This is to certify that P. Chaitanya Kumar Reddy (Name of the  
Community Service Volunteer) Reg. No. 21AK540108 of  
Appanna Charya Institute of Technology & Science (Name of the College)  
underwent community service in Kasamraju Kadapa dist (Name of the  
Community) from 4-8-2022 to 8-9-22

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

  
03/11/2022  
MANDAL REVENUE INSPECTOR  
CHENUR MANDAL  
Authorized Signatory with Date and  
Seal

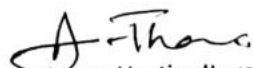


**Certificate from Official of the Community**

This is to certify that **P.CHANDANA** Reg. No **21AK5A0109** 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).

*Chandana*  
12/02/2023  
Authorized Signature with Date and Seal  
Assistant Engineer  
RWS & S  
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).

  
Village Horticulture Assistant  
Authorized Signatory with Secretariat  
Karakambadi Village  
Renigunta Mandal Chittoor Dist.  
Seal

#### ACKNOWLEDGEMENTS

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. NADHAMUNI 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 , 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 .**

**Certificate from Official of the Community**

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).

*Handwritten signature*  
19/2/2023  
Assistant Engineer  
RWS & S  
Authorized Signatory with Date and Seal  
Tirupati Rura



**Certificate from Official of the Community**

This is to certify that **R.Divya** Reg. No **21AK5A0112** 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).

  
Authorized Signatory with Date and **17/2/23**  
Seal **WARD SANITATION & ENVIRONMENT SECRETARY**  
**Secretariat Code : 1012074**  
**Ward No. 37/2**  
**TIRUPATI MUNICIPAL CORPORATION**

**Certificate from Official of the Community**

This is to certify that **T.S.GIRISH KUMAR** Reg. No **21AK5A0113** 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).

  
Authorized Signatory with Date and  
**DIGITAL ASSISTANT**  
Seal **GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

**Certificate from Official of the Community**

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).

  
Authorized Signatory with Date and  
**DIGITAL ASSISTANT**  
**GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**



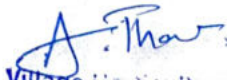
**Certificate from Official of the Community**

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 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).

  
DIGITAL ASSISTANT with Date and  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL

**Certificate from Official of the Community**

This is to certify that **B. HARI PRASAD** Reg.No: **21AK5A0116** 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 Ho. Chittoor Assistant  
Authorized Signatory with Date and Seal  
of Secretariat  
Renigunta mandal Chittoor Dist.

**Certificate from Official of the Community**

This is to certify that **V, JAMUNA** Reg. No **21AK5A0118** of **Annamacharya Institute 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).



Authorized Signatory with Date and

**DIGITAL ASSISTANT**  
Seal  
**GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**



**Certificate from Official of the Community**

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).

*Handwritten signature*  
19/02/2023

Assistant Engineer  
Authorized Signatory **RWS & S**  
Tirupathi Rural

**Certificate from Official of the Community**

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).



WARD ADMINISTRATIVE SECRETARY

Secretariat Code : 1012003

Ward No. 13

TIRUPATI MUNICIPAL CORPORATION

Authorized Signatory with Date and

Seal

**Certificate from Official of the Community**

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).

*C. Upendra*  
ENGINEERING ASSISTANT  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAIAT  
BENIGUNTA MANDAL  
Authorized Signatory with Date and Seal





## Certificate from Official of the Community

This is to certify that M KOUSHIK Reg. No 21AK5A0123 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in ADONI 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  
Authorized Signatory with Date and Seal  
Karakambadi-1 Village Secretariat  
Renigunta Mandal Chittoor Dist.

**Certificate from Official of the Community**

This is to certify that K kumar Reg. No **21AK5A0124** of **Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati** under went community service in **GONAVARAM (Village)** 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).

*N. Sathya Devi*

Secretary, Tirupati Municipal Corporation

Date: \_\_\_\_\_  
TIRUPATI MUNICIPAL CORPORATION

Authorized Signatory with Date and Seal

**Certificate from Official of the Community**

This is to certify that **P.LAHIRI SAI TEJA** Reg. No **21AK5A0125** 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).


*Rudhan*  
19/09/2023

Assistant Engineer  
Authorized Signatory **RWS & S** Date and Seal  
Tirupathi Rural



**Certificate from Official of the Community**

This is to certify S. Lakshmi Narasimha Reg. No 21AK5A0126 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 ADMINISTRATIVE SECRETARY  
Secretariat Code : 1012003  
Ward No. 13

TIRUPATI MUNICIPAL CORPORATION  
Authorized Signatory with Date and

Seal

**Certificate from Official of the Community**

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).



Authorized Signatory with Date and

**DIGITAL ASSISTANT**  
Seal **GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

**Certificate from Official of the Community**

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).

P. Suryanarayana Reddy  
WARD REVENUE SECRETARY  
Secretariat Code: 1012070  
Ward No. .... 35/2 .....  
TIRUPATI URBAN MANDAL

Authorized Signatory with Date and Seal



## Certificate from Official of the Community

This is to certify that M. MADHURITHA Reg.No: 21AK5A0129 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).

*M Madhura*  
19/09/2023

Assistant Engineer  
Authorized Signatory with Date and Seal  
Tirupathi Rura

**Certificate from Official of the Community**

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).

*A. Thar*

AGRICULTURE/AGRICULTURE ASSISTANT  
Authorized Signatory with Date and  
GRAMA SACHIVALAYAM-01  
SRAMAMBADI GRAMA PANCHAYAT  
PENIGUNTA MANDAL

**Certificate from Official of the Community**

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).



Authorized Signatory with Date and

**DIGITAL ASSISTANT**

**GRAMA SACHIVALAYAM-01**


Seal  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**



Certificate from Official of the Community

This is to certify that ..... (Name of the  
Community Service Volunteer) Reg. No. .... of  
..... (Name of the College)  
underwent community service in ..... (Name of the  
Community) from .. to ..

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

  
03/11/2022  
MANDAL REVENUE INSPECTOR  
CHENUR MANDAL  
KARNATAKA  
Authorized Signatory with Date and  
Seal

**Certificate from Official of the Community**

This is to certify **K.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 Signatory with Date and

**DIGITAL ASSISTANT**  
Seal **GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

**Certificate from Official of the Community**

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).




Authorized Signatory with Date and

**DIGITAL ASSISTANT**  
Seal **GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL**



**Certificate from Official of the Community**

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 **DIGITAL ASSISTANT** with Date and  
**GRAMA SACHIVALAYAM-01**  
Seal **KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

**Certificate from Official of the Community**


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).

  
Village Horticulture Assistant  
Authorized Signatory with Date and  
Seal  
Renigunta Mandal Chittoor Dist.

**Certificate from Official of the Community**

This is to certify **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).

  
PANCHAYATH SECRETARY  
Authorized Signatory with Date and Seal  
GRAMAPANCHAYAT PILERU  
CHITTOOR DT A P -517 214



**Certificate from Official of the Community**

This is to certify that P NAJEER BASHA Reg. No 21AK5A0139 of **Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati** underwent community service in ADONI 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: Assistant  
Village Horticulture Officer  
Karakambadi-I Village Secretariat  
Renigunta Mandal Chittoor Dist.

**Certificate from Official of the Community**


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).

  
WARD ADMINISTRATIVE SECRETARY  
Secretariat Code : 1012003  
Ward No. 13  
TIRUPATI MUNICIPAL CORPORATION

Authorized Signatory with Date and  
Seal

**Certificate from Official of the Community**

This is to certify that A.NIRMALA Reg. No 21AK5A0141 of Annamacharya Institute of Technology & Sciences (Autonomous), Tirupati underwent community service in Nandikotkur 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 Signatory with Date and  
Seal





**Certificate from Official of the Community**

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 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

**DIGITAL ASSISTANT**

Seal

**GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYAT  
RENIGUNTA MANDAL.**

**Certificate from Official of the Community**


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).

A. J. S.

Auth. Digital Signature with Date and  
**DIGITAL ASSISTANT**  
**GRAMA SACHIVALAYAM-01**  
Seal  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

**Certificate from Official of the Community**

This is to certify that G.PAVAN SAI Reg. No **21AK5A0144** 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 Horticulture Assistant with Date and  
Karimnagar-I Village Secretariat  
Renigunta Mandal Chittoor Dist.  
Seal



**Certificate from Official of the Community**

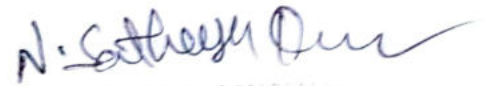
This is to certify that **Y.S.PAVANI** Reg. No **21AK5A0145** of **Annamacharya Institute of Technology & Sciences (Autonomous)**, **Tirupati** underwent community service in **BALUPALLE Village** from **4-8-2022** to **8-9- 2022** The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

*Vethu malla* 20/01/2023  
WARD SANITATION & ENVIRONMENT SECRETARY  
Secretariat Code : 1012067  
Ward No. 34/1  
TIRUPATI MUNICIPAL CORPORATION  
Authorized Signatory with Date and

Seal

**Certificate from Official of the Community**

This is to certify that **M PRAHALLADHUDU** Reg. No **21AK5A0146** 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).



WARD ADMINISTRATIVE SECRETARY

Secretarial Code: 1012067

Ward No. \_\_\_\_\_

TIRUPATI MUNICIPAL CORPORATION

Authorized Signatory with Date and

Seal

**Certificate from Official of the Community**

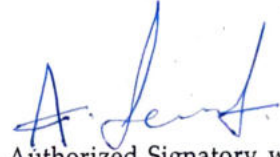
This is to certify that **C. PRASANTH** Reg. No **21AK5A0147** of **Annamacharya Institute of Technology & Sciences (Autonomous) ,Tirupati** underwent community service in **KALUVOYA town** from **4-8-2022** to **8-9- 2022** The overall performance of the Community Service Volunteer during his/her community service is found to be (Satisfactory/Good).

  
Authorized Signatory with Date and  
Seal  
GRAMA SACHIVALAYAM-01  
KARAKAMBADI GRAMA PANCHAYA  
RENIGUNTA MANDAL.



**Certificate from Official of the Community**

This is to certify that **P.PRAVEEN KUMAR** Reg. No **21AK5A0148** 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



**Certificate from Official of the Community**

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 community service is found to be (Satisfactory/Good).

  
Authorized \_\_\_\_\_ with Date and  
Seal **DIGITAL ASSISTANT**  
**GRAMA SACHIVALAYAM-01**  
**KAMBADI GRAMA PANCHAYAT**  
**ANGUNTA MANDAL**

**Certificate from Official of the Community**

This is to certify **S.RAJ KUMAR** Reg. No **21AK5A0150** 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  
community service is found to be (Satisfactory/Good).

*A. Senthil*

Authorized Signatory with Date and

Seal





This is to certify that **K. RAJU** 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).



Village Horticulture Assistant  
Kothapalli, Renjunta Mandal, Chittoor Dist.  
Seal

#### ACKNOWLEDGEMENTS

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. NADHAMUNI 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 , 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 .**

**Certificate from Official of the Community**

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 Horticulture Assistant  
Authorized Signatory With Date and  
Karakambadi-I Village Secretariat  
Seal Renigunta Mandal Chittoor Dist.

**Certificate from Official of the Community**

This is to certify that **P Reddy Padmaja** Reg. No **21AK5A0153** of **Annamacharya Institute of Technology & Sciences (Autonomous) , Tirupati** underwent community service in **KURAVAPALLI 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).

  
21/01/22

Authorized Signatory with Date and  
**PANCHAYAT SECRETARY**  
Seal  
Sambalahpalem Sachivalayam  
Thottambettu Mandal



**Certificate from Official of the Community**

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).




Authorised Assistant with Date and

Seal **DIGITAL ASSISTANT**  
**GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**

Certificate from Official of the Community

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).

  
Authorized Signatory With Date and  
WELFARE & EDUCATION ASSISTANT  
Seal NARASINGAPURAM SACHIVALAYAM  
CHANDRAGIRI MANDAL

**Certificate from Official of the Community**

This is to certify that **G Sai Pradeep** Reg. No **21AK5A0156** 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).

  
Digitally signed by \_\_\_\_\_ with Date \_\_\_\_\_  
**DIGITAL ASSISTANT**  
**GRAMA SACHIVALAYAM-01**  
**KARAKAMBADI GRAMA PANCHAYAT**  
**RENIGUNTA MANDAL.**