

A Project Report On  
Community Service Project  
**AWARENESS ON WASTE MANAGEMENT**  
**BACHELOR OF TECHNOLOGY**  
IN  
**COMPUTER SCIENCE AND ENGINEERING**

By

**MAVURI KUSUMA**

**Roll No : 20A81A05A1**

**Under the Esteemed Guidance of**

**Y. Divya Vani M. Tech**

**Assistant Professor**



**Department Of Computer Science and Engineering**

**(Accredited by N.B.A)**

**SRI VASAVI ENGINEERING COLLEGE**

**(Autonomous)**

**(Affiliated to JNTU Kakinada)**

**Pedatadepalli, Tadepalligudem-534101, AP**

**2022-23**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Community Service Project**

**2022-23**

**AWARENESS ON WASTE MANAGEMENT**

Name of the Student : MAVURI KUSUMA  
Roll No : 20A81A05A1  
Program : Computer Science and Engineering  
Topic : AWARENESS ON WASTE MANAGEMENT  
Area : CHANAMILLI  
Guide : Y. DIVYA VANI (ASSIST. PROFESSOR)

*M. Kusuma*  
**Student**

  
**Guide**



**Project Log Book**

Student Name	Mavari . Kusuma
Regd. Number	20AB1A05A1
Branch	(CSE) Computer Science and Engineering
Year	(2022-2023) 3 <sup>rd</sup> Year
Title of the Community Service Project	Awareness on Waste Management
Guide Name	Y. Divya Vani (Asst. Professor)

S.No	Date	Guidance Given	Student Activities	Target Achieved	Signature of the Guide
1	20-11-2022	conduct a survey	Conducted survey	Yes	
2	20-11-2022	Identify the problem	Asked Questions	Yes	
3	20-11-2022	Should behave politely	Make people to answer question	Yes	
4	20-11-2022	Don't ask personal information	Discuss with teammates	Yes	
5	22-11-2022	work related to domain	select title for project	Yes	
6	23-11-2022	Identify the solution Problem	conduct survey	Yes	
7	27-11-2022	check whether the solution are apt	did case study to verify	Yes	
8	27-11-2022	Bring awareness	Awareness given	Yes	
9	27-11-2022	Bring awareness.	Awareness given	Yes	
10	29-11-2022	Make a report.	Given report	Yes	

Project Guide

Project Coordinator

Head of the Department  
Dept. of Computer Science & Engineering  
Sri Vasavi Engineering College  
Pedatadepalli, Tadepalligudem-534 101

## ACKNOWLEDGEMENT

First and foremost, we sincerely salute to our esteemed institute **SRI VASAVI ENGINEERING COLLEGE**, for giving us this golden opportunity to do community service project.

Our sincere gratitude to our project guide **Y. Divya Vani** Department of Computer Science and Engineering, for her timely cooperation and valuable suggestions while carrying out this project.

We express our sincere thanks and heartfelt gratitude to **Dr. D. Jaya Kumari**, Professor & Head of the Department of Computer Science and Engineering, for permitting us to do our project.

We express our sincere thanks and heartfelt gratitude to **Dr. G.V.N.S.R. Ratnakara Rao**, Principal, for providing a favourable environment and supporting us during the development of this project.

Our special thanks to the management and all the teaching and non-teaching staff members, Department of Computer Science and Engineering, for their support and cooperation in various ways during our project work. It is our pleasure to acknowledge the help of all those respected individuals.

I thank the officials of the Grama sachivalayam Departments for their support and guidance. Finally, I thank my family and friends for their assistance throughout the project work.

**M. KUSUMA**  
**(20A81A05A1)**

**Sri Vasavi Engineering College (Autonomous)**  
**Department of Computer Science and Engineering**



**CERTIFICATE**

I **M. KUSUMA** student of CSP Program with **Roll No:20A81A05A1** certify that the Community Service Project on the topic Awareness on waste management Survey done in the area Chanamilli is a bonafide work of me and it is not submitted for award of any other degree in this university or any other university or college.

**GUIDE**

**Y. Divya Vani M.Tech**

**HEAD OF THE DEPARTMENT**

**Dr. D. Jaya Kumari Ph. D**  
Dept. of Computer Science and Engineering  
Sri Vasavi Engineering College  
TADAPALLIGUDEM, M-534 101

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## INTRODUCTION

Waste is an unavoidable by-product of most human activity. Economic development and rising living standards in the Asian and Pacific Region have led to increases in the quantity and complexity of generated waste, whilst industrial diversification and the provision of expanded health-care facilities have added substantial quantities of industrial hazardous waste and biomedical waste into the waste stream with potentially severe environmental and human health consequences.

The Chapter discusses the generation, treatment, disposal and management of the growing volume of waste, which poses formidable challenges to both high and low-income countries of the region. Poorly managed waste is contaminating the world's oceans, clogging drains and causing flooding, transmitting diseases, increasing respiratory problems from burning, harming animals that consume waste unknowingly, and affecting economic development such as through tourism.

Municipal solid waste (MSW) is generated from households, offices, hotels, shops, schools and other institutions. The major components are food waste, paper, plastic, rags, metal and glass, although demolition and construction debris is often included in collected waste, as are small quantities of hazardous waste, such as electric light bulbs, batteries, automotive parts and discarded medicines and chemicals.

In many cities of the region, municipal solid waste (MSW) is gathered in a variety of containers ranging from old kerosene cans and rattan baskets to used grocery bags and plastic drums or bins. In some cities, neighbourhood-dumping areas have been designated (formally or informally) on roadsides from which bagged and loose waste is collected. Waste collection (and, where appropriate, waste transfer) frequently constitutes the major solid waste management cost for the region's cities.

A wide variety of collection systems are used including door to-door collection and indirect collection, by which containers, skips or communal bins are placed near markets, in residential areas and other appropriate locations.

Expanding agricultural production has naturally resulted in increased quantities of livestock waste, agricultural crop residues and agro-industrial by-products. Among the countries in the Asian and Pacific Region, People's Republic of China produces the largest quantities of agriculture waste and crop residues followed by India.

# **SURVEY FORMS**





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Department of Computer Science & Engineering (Accredited by NBA)

### Community Service Project

**Name of the project:** AWARENESS ON WASTE MANAGEMENT

1. Village Name: Chanamilli
2. District Name Eluru
3. State Name: Andhra Pradesh.
4. Name of the Respondent: P. Rama Krishna
5. Age of the Respondent: 57
6. Gender of the Respondent: Male
7. Date of testimonial (dd/mm/yyyy): 20-11-2022
8. Name of the Investigator (Roll No.): M. kusumo (20AS(A05A1)

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## SURVEY QUESTIONS

1. From whom have you heard about solid waste management?  
 Municipality    Volunteers    Neighbours    Others
2. What type of solid waste comes out from your house?  
 Paper and carton    Plastics    Food waste    Others
3. How often is the waste container emptied?  
 Once a day    Once in 2 days    Once in a week    Others
4. Where do you usually put away collected waste?  
 In the itinerant waste van  
 By the valley/lake/river  
 On an open space  
 Others
5. Where did you notice burning waste in public area?  
 In your locality    In the outskirts    In the Public area    Others
6. How do you evaluate the state of the solid waste in your house area?  
 Good    Fair    Not good    Don't know
7. How can you describe the state of the public bin near your house?  
 In a good state  
 Adequate size  
 Not in a good state  
 Inadequate
8. Have you ever faced any of the following issues due to improper disposal of solid waste?  
 Infectious diseases    Pollution    Insects breeding    Others
9. Do you think there is enough information available about the environment impacts of Solid waste?  
 Appropriate  
 Inappropriate  
 Up to knowledge  
 Not Available
10. Overall, how would you rate the quality of the environment in your locality as compared to the environment you had 2 years ago?  
 Much better    A little better  
 The same    Worse



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### Community Service Project

**Name of the project:** AWARENESS ON WASTE MANAGEMENT

1. Village Name: Chanamilli
2. District Name Eluru
3. State Name: Andhra Pradesh.
4. Name of the Respondent: R. Mahankalamma
5. Age of the Respondent: 62
6. Gender of the Respondent: Female.
7. Date of testimonial (dd/mm/yyyy): 20-11-2022
8. Name of the Investigator (Roll No.): M. kusuma (20AS1A05A)

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### Community Service Project

**Name of the project:** AWARENESS ON WASTE MANAGEMENT

1. Village Name: Chanamilli
2. District Name Eluru
3. State Name: Andhra Pradesh
4. Name of the Respondent: P. Aruna
5. Age of the Respondent: 37
6. Gender of the Respondent: Female
7. Date of testimonial (dd/mm/yyyy): 20-11-2022
8. Name of the Investigator (Roll No.): M. Kusuma (20A81A05A1)

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### Community Service Project

**Name of the project:** AWARENESS ON WASTE MANAGEMENT

1. Village Name: Chanamilli
2. District Name Eluru
3. State Name: Andhra Pradesh
4. Name of the Respondent: Padala Balu
5. Age of the Respondent: 35
6. Gender of the Respondent: Male.
7. Date of testimonial (dd/mm/yyyy): 20-11-2022
8. Name of the Investigator (Roll No.): M.kusuma (20A81A05A1)

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### Community Service Project

**Name of the project:** AWARENESS ON WASTE MANAGEMENT

1. Village Name: chanamilli
2. District Name Eluru
3. State Name: Andhra Pradesh
4. Name of the Respondent: k. Mani
5. Age of the Respondent: 53
6. Gender of the Respondent: female
7. Date of testimonial (dd/mm/yyyy): 27-11-2022
8. Name of the Investigator (Roll No.): M-kusuma (20A81A05A1)

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### Community Service Project

**Name of the project:** AWARENESS ON WASTE MANAGEMENT

1. Village Name: Chammilli
2. District Name Eluru
3. State Name: Andhra Pradesh
4. Name of the Respondent: P. Parvathi
5. Age of the Respondent: 49
6. Gender of the Respondent: Female.
7. Date of testimonial (dd/mm/yyyy): 27-11-2022
8. Name of the Investigator (Roll No.): M.KUSUMA (20AS1A05A1)

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1. Village Name: Chanamilli
2. District Name Eluru
3. State Name: Andhra Pradesh
4. Name of the Respondent: P. Raju
5. Age of the Respondent: 40
6. Gender of the Respondent: Male
7. Date of testimonial (dd/mm/yyyy): 27-11-2022
8. Name of the Investigator (Roll No.): M.kusuma (20A81A05A1)

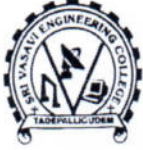
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### Community Service Project

**Name of the project:** AWARENESS ON WASTE MANAGEMENT

1. Village Name: Chanamilli
2. District Name Eluru
3. State Name: Andhra Pradesh
4. Name of the Respondent: E. Rangamma
5. Age of the Respondent: 55
6. Gender of the Respondent: Female
7. Date of testimonial (dd/mm/yyyy): 27-11-2022
8. Name of the Investigator (Roll No.): N.kusuma (20A81A05A1)

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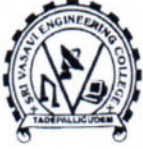
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### Community Service Project

**Name of the project:** AWARENESS ON WASTE MANAGEMENT

1. Village Name: Charamilli
2. District Name Eluru
3. State Name: Andhra Pradesh
4. Name of the Respondent: E. Santhi Kumari
5. Age of the Respondent: 38
6. Gender of the Respondent: Female.
7. Date of testimonial (dd/mm/yyyy): 27-11-2022
8. Name of the Investigator (Roll No.): M. KUSUMA(20A8/AUSA1)

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5. Age of the Respondent: 33
6. Gender of the Respondent: female.
7. Date of testimonial (dd/mm/yyyy): 27-11-2020
8. Name of the Investigator (Roll No.): M.kusuma (BCA&IADSAI)

**Vision:** To evolve as a centre of academic and research excellence in the area of Computer Science and Engineering.

**Mission:** To utilize innovative learning methods for academic improvement.

To encourage higher studies and research to meet the futuristic requirements of Computer Science and Engineering.  
To inculcate Ethics and Human values for developing students with good character.

## SURVEY QUESTIONS

1. From whom have you heard about solid waste management?  
 Municipality    Volunteers    Neighbours    Others
2. What type of solid waste comes out from your house?  
 Paper and carton    Plastics    Food waste    Others
3. How often is the waste container emptied?  
 Once a day    Once in 2 days    Once in a week    Others
4. Where do you usually put away collected waste?  
 In the itinerant waste van  
 By the valley/lake/river  
 On an open space  
 Others
5. Where did you notice burning waste in public area?  
 In your locality    In the outskirts    In the Public area    Others
6. How do you evaluate the state of the solid waste in your house area?  
 Good    Fair    Not good    Don't know
7. How can you describe the state of the public bin near your house?  
 In a good state  
 Adequate size  
 Not in a good state  
 Inadequate
8. Have you ever faced any of the following issues due to improper disposal of solid waste?  
 Infectious diseases    Pollution    Insects breeding    Others
9. Do you think there is enough information available about the environment impacts of Solid waste?  
 Appropriate  
 Inappropriate  
 Up to knowledge  
 Not Available
10. Overall, how would you rate the quality of the environment in your locality as compared to the environment you had 2 years ago?  
 Much better    A little better  
 The same    Worse

**AWARENESS ACTIVITIES**  
**WITH PHOTOS**





VARUN MOTORS  
Chanamilli  
Andhra Pradesh  
India  
29° C  
2022-11-27 (Sun) 09:52 (pm) 84° F



VARUN MOTORS  
Chanamilli  
Andhra Pradesh  
India  
29° C  
2022-11-27 (Sun) 09:56 (pm) 84° F



VARUN MOTORS  
Chanamilli  
Andhra Pradesh  
India  
29° C  
2022-11-27 (Sun) 09:49 (pm) 84° F



VARUN MOTORS  
Chanamilli  
Andhra Pradesh  
India  
29° C  
2022-11-27 (Sun) 09:59 (pm) 84° F

# SUGGESTIONS

## 1. COLLECTION AND TRANSFER

In some cities, neighbourhood-dumping areas have been designated (formally or informally) on roadsides from which bagged and loose waste is collected.

## 2. MATERIAL RECOVERY, REUSE AND RECYCLING:

Reduce unnecessary consumption and stop generating more and more waste. Reuse everything you can or give usable things to the other person / institution to use it. Re-cycle what remains as waste and dispose into the green dumpsters only that kind of waste which could not be recycled otherwise.

## 3. OPEN DUMPING

Open dumping is the most widespread method of solid waste disposal in the region and typically involves the uncontrolled disposal of waste without measures to control leachate, dust, odour, landfill gas or vermin. In some cities, open burning of waste is practised at dumpsites

## 4. SEGREGATE WASTE

Put wet wastes like leftover foods, vegetables, peels etc. in an organic dustbin which can later be used for composting Segregation of waste can reduce the garbage burden on the already overflowing landfills, thereby curbing the pollution levels.

## 5. COMPOSTING

Composting offers a method of processing and recycling both garbage and sewage sludge in one operation. As more stringent environmental rules and siting constraints limit the use of solid-waste incineration and landfill options, the application of composting is likely to increase.



## **Conclusion**

It is critical to improve SWM in India. Improper SWM puts public health, India's environment, and Indians' quality of life in jeopardy. Improved SWM in India necessitates the recovery of materials and energy from waste. It not only adds value and makes SWM projects more economically viable, but it also makes them more sustainable. Any effort to divert MSW from landfills, particularly in India's unclean landfills, will help the cause. India should select one or more of these choices, or a combination of them, that will benefit the country.

Despite the increasing urbanization and industrialization, the economic activity of the region remains predominantly agricultural and, consequently, generates substantial quantities of agricultural wastes. However, much of the waste is utilized within rural communities through composting, direct land application, biogas generation or is used as construction materials.