

# **COMMUNITY SERVICE PROJECT REPORT ON PLANTATION**

*A project report submitted in partial fulfilment of the requirement  
for the award of Degree of*

**COMPUTER SCIENCE ENGINEERING**

**SUBMITTED BY  
KOPPAKA SIVAJI  
20NT1A0551**

*Under the guidance of*

**Mr. K.RUPENDRA SINGH, M.Tech**

**Senior Assistant Professor**



**VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**(Approved by AICTE NEW DELHI, Affiliated to JNTU-KAKINADA)**

**57TH Division, Narava, GVMC, Visakhapatnam-530027 A P**

**2020-2024**

**PROGRAM BOOK**  
**FOR**  
**COMMUNITY SERVICE PROJECT**

*(Submitted in accordance with the requirements for the degree of Bachelor of Technology)*

**Name of the College** : VISAKHA INSTITUTE OF ENGINEERING & TECHNOLOGY

**Department** : COMPUTER SCIENCE & ENGINEERING

**Name of the Student** : KOPPAKA SIVAJI

**Programme of study** : B.Tech

**Registered Number** : 20NT1A0551

**Year of study** : 3<sup>rd</sup> year

**Semester** : 1<sup>st</sup> semester

**Duration of the CSP** : From 18/07/2022 to 04/09/2022

**Name of the Faculty Guide:** Mr. K. RUPENDRA SINGH .MTech



**University**

**JNTUK, Kakinada**

# **VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(Approved by AICTE, NEW DELHI Affiliated to JNTUK KAKINADA,AP  
& accredited by NAAC

GVMC 88<sup>th</sup> DIVISION , NARAVA VISAKHAPATNAM-530027

DEPARTMENT

OF

COMPUTER SCIENCE AND ENGINEERING

## **CERTIFICATE**

This is to certify that the project entitled "PLANTATION" that is being submitted by the team in partial fulfilment of the Social Relevant Project of B.Tech in Computer Science Engineering during the academic year 2020-2021, from JNTU Kakinada, Andhra Pradesh. It is a record of bonafide work carried out by them under our guidance and supervision.

The results or works embodied in this report have not been submitted in any other institute or university.

**PROJECT SUPERVISOR**

**HEAD OF THE DEPARTMENT**

Senior Assistant Professor

Professor & HOD

**EXTERNAL EXAMINER**

## ACKNOWLEDGEMENT

Firstly, we would like to thank our project guide \_\_\_\_\_, assistant professor in Department of Computer Science Engineering for giving us an opportunity to work on this challenging topic providing us guidance. His encouragement, support and suggestions are most valuable for the successful completion of our project and course.

We feel elated to extend our floral gratitude to Head of the department Mr. K.Rupendra Singh, Head of the Department of Computer Science Engineering for her encouragement all the way during analysis of the project. Her annotations, supporting, criticisms are the key behind the successful completion of during the project and for providing us all the required facilities.

We would like to take this opportunity to express our profound sense of gratitude to revered PRINCIPAL Dr.V. Sridhar Patnaik sir, for giving us the opportunity of doing this project and for providing us all the required facilities.

We also take this opportunity to express our heart full thanks to the teaching and non-teaching staff of the department, for their perspective commands and suggestion. We would like to thank our beloved parents for being patient, understanding and providing constant support. We would like to appreciate to the critical comments given by our friends who have been working with us. Our thanks to all others, who have directly or indirectly contributed in making our project a great success.

**KOPPAKA SIVAJI**

**20NTIA055I**



# Student's Declaration

I am **KOPPAKA SIVAJI** a student of **B.Tech** Program, Reg. no:**20NT1A0551** of the department of **COMPUTER SCIENCE AND ENGINEERING**.VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY. do here by declare that, I have completed the mandatory community service project from the 18/07/2022 to 04/09/2022 in **JERRIPOTHULAPALEM** .Under the Faculty Guide ship of **MR. K.RUPENDRA** Department of COMPUTER SCIENCE AND ENGINEERING in VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY



(Student Signature and Date)

Endorsements

Faculty Guide

Head of The Department

## **CERTIFICATE FROM OFFICIAL OF THE COMMUNITY**

This is to certify that **KOPPAKA SIVAJI** Reg.no:**20NT1A0551** OF  
VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY  
underwent community service in **JERRIPOTHULA PALEM** from  
18/07/2022 to 04/09/2022 The overall performance of the community  
service volunteer during his/her community Service is found to be

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(Satisfactory/good)

**Authorized Signature with Date and Seal**

From:  
THE PRINCIPAL

PERMISSION LETTER  
COMMUNITY SERVICE PROJECT

DATE: 09/09/2022

VISAKHA INSTITUTE OF ENGINEERING AND TECHNOLOGY,  
NARAVA,  
VISAKHAPATNAM, ANDHRAPRADESH.

TO:  
Narava,  
GOPALAPATNAM,  
VISAKHAPATNAM.

SUBJECT: PERMISSION REGARDING COMMUNITY SERVICE  
PROJECT.

**TITLE: "PLANTATION".**

Respected Madam/Sir,

This is for your kind information that, as per the revised guidelines from our affiliating university JNTUK, Community service project is made an integral part of the curriculum to help the students to develop social consciousness, sensibility, responsibility and accountability by imparting social exposure through initiation of developmental activities in the community in coordination with public and government authorities.

In this regard, we would like to recommend the following students of B.TECH-3<sup>rd</sup> year from cse department to implement a community service project at narava, GOPALAPATNAM for duration of 2 weeks.

|            |                                  |
|------------|----------------------------------|
| 20NT1A0546 | KARUKONDA HARSHA VARDHAN         |
| 20NT1A0547 | KASARAGADDA VENKATESH            |
| 20NT1A0548 | KAVALLA BASKARA DURGA            |
| 20NT1A0549 | KETHINENI ADARSH                 |
| 20NT1A0550 | KONA VINEELA                     |
| 20NT1A0551 | KOPPAKA SIVAJI                   |
| 21NT5A0523 | MOHAMMED IRFAN                   |
| 21NT5A0526 | PADALA MOHAN KUMAR               |
| 21NT5A0527 | PANDULA ARJUNA RAO               |
| 21NT5A0528 | PARNANDI VENKATA KRISHNA SARADHI |

We request you to permit these students for the above mentioned activity and cooperate with us to the extent possible. Looking forward to your positive response.

Your's faithfully

Head Of The Department

PRINCIPAL

  
PRINCIPAL  
VISAKHA INSTITUTE OF  
ENGINEERING & TECHNOLOGY  
5TH DIVISION, NARAVA, VISAKHAPATNAM.

## **CHAPTER 1: EXECUTIVE SUMMARY**

### **INTRODUCTION OF TREE PLANTATION**

Tree planting is the process of transplanting tree seedlings, generally for forestry, land reclamation, or landscaping purpose. It differs from the transplantation of larger trees in arboriculture, and from the lower cost but slower and less reliable distribution of tree seeds.

In silviculture the activity is known as reforestation, or a forestation, depending on whether the area being planted has or has not recently been forested. It involves planting seedlings over an area of land where the forest has been harvested or damaged by fire, disease or human activity. Tree planting is carried out in many different parts of the world, and strategies may differ widely across nations and regions and among individual reforestation companies. Tree planting is grounded in forest science, and if performed properly can result in the successful regeneration of a deforested area. Reforestation is the commercial logging industry's answer to the large-scale destruction of old growth forests, but a planted forest rarely replicates the biodiversity and complexity of a natural forest.

Because trees remove carbon dioxide from the air as they grow, tree planting can be used as a geoengineering technique to remove CO<sub>2</sub> from the atmosphere. Desert greening projects are also motivated by improved biodiversity and reclamation of natural water systems, but also improved economy and social welfare due to increased number of jobs in farming and forestry.



## CHAPTER 2: OVERVIEW OF THE COMMUNITY

### Historical profile of the community/habitation:

Jerripothulapalem is a Village in Pendurthi Mandal in Visakhapatnam District of Andhra Pradesh State, India. It belongs to Andhra region . It is located 11 KM towards west from District head quarters Vishakhapatnam. 5 KM from Pendurthi.

Jerripothulapalem Village Total population is 957 and number of houses are 255. Female Population is 48.7%. Village literacy rate is 58.2% and the Female Literacy rate is 24.6%.

Jerripothulapalem Pin code is 530027 and postal head office is Subbavaram .

|                          |                   |
|--------------------------|-------------------|
| <b>JERRIPOTHULAPALEM</b> |                   |
| village over view        |                   |
| <b>Gram panchayath</b>   | Jerripothulapalem |
| Mandal                   | Pendurthi         |
| District                 | Visakhapatnam     |
| State                    | Andhra pradesh    |
| Pincode                  | 530027            |
| Area                     | 306 hectares      |

## CHAPTER 3: COMMUNITY SERVICE PART

### SURVEY:

By conducting the survey, I gathered the information from the people of these area which are related to my project to identify the problems faced by the people staying there.

### SURVEY QUESTIONS:

1. How many times you water the plants per day?
2. Do you follow any methods to protect plants?
3. Do you follow any methods to protect plants ?
4. Do you follow any methods to protect plants ?
5. What sprays /pesticides / herbisides do you use ?
6. what kind of soil do you use ?
7. what precautions do you take to grow plants ?
8. Do you have a CSE ( community supported agriculture ) ?
9. A tree gets planted it's that easy?
- 10.Are you seedlings arriving as sechedued ?
- 11.Do you know which tree is better for health ?
- 12.Do you know green house effect ?
- 13.Do you know the importance of plantation ?
- 14.How do you feel intraction with us ?

After conducting the survey, I had identified all the major problems that are facing by the People related to their area and I have found some solutions for the problems.

With all the possible solutions I had conducted a campaign by going to that area and Interacting with the peoples and telling them the solution which I had discovered for their problems and explained the benefits in using the solutions.

## ACTIVITY LOG FOR THE FIRST WEEK

| DAY & DATE   | BRIEF DESCRIPTION OF THE DAILY ACTIVITY   | LEARNING OUTCOME                                       | Person In-charge Signature |
|--------------|---|--|----------------------------|
| <b>DAY-1</b> | We went to the NARAVA sachivalayam and explained them about our project details and taken permission from the VRO | Interacting with superiors                             |                            |
| <b>DAY-2</b> | Create awareness among the community by explaining the advantages of organic farming                              | Teamwork for creating awareness on organic farming     |                            |
| <b>DAY-3</b> | Explain about the advantages of organic cultivation and explained how it is useful for health.                    | We know that, quality is more important than quantity. |                            |
| <b>DAY-4</b> | Create awareness on problems which are faced by future generations by using of inorganic farming.                 | Assertiveness, sharing the views among the community.  |                            |
| <b>DAY-5</b> | How organic farming establishes sustainable health.   | Effective speaking.                                    |                            |
| <b>DAY-6</b> | Main aim of the project is to encourage the people to follow the organic farming methods.                         | Supportiveness of the team.                            |                            |

# WEEKLY REPORT

**WEEK – 1 (From Dt..... to Dt )**

**Objective of the Activity Done:**

**Detailed Report:**

Educating people about the PLANTATION

In the second week's survey, we have created awareness program based on the PLANTATION

We have explained the advantages of PLANTATION by creating a community among them and also explained how it is good for environment.

We have described to people the need of using PLANTATION in this Corporate world

Created awareness about the effects caused by pesticides and the side-effects causing by using inorganic farming by future generation

The main theme of this week is to encourage the people to follow the PLANTATION methods in their homes



## ACTIVITY LOG FOR THE SECOND WEEK

| Day<br>&<br>Date | Brief description of the daily<br>activity   | Learning Outcome                         | Person In-<br>Charge<br>Signature |
|------------------|--|--|-----------------------------------|
| Day – 1          | Explained about which soil is better for PLANTATION and how it maintained according to crop. | Social skills.                           |                                   |
| Day - 2          | PLANTATION methods for increasing soil fertility like plowing under mining.                  | Learned about soil fertility techniques. |                                   |
| Day – 3          | Soil fertility and nutrient management of PLANTATION.  | Social skills.                           |                                   |
| Day – 4          | Selection of seeds for farming and how it plays a key role in farming.                       | Communication skills.                    |                                   |
| Day – 5          | Seed purification. techniques and why it needs purification.                                 | Time management.                         |                                   |
| Day –6           | Watering methods for cultivation by Drip irrigation method.                                  | Technical management.                    |                                   |

# WEEKLY REPORT

**WEEK – 2 (From Dt..... to Dt )**

|   |
|---|
| Objective of the Activity Done:   |
| Detailed Report:  |
| Educating PEOPLE about the PLANTATION   |
| In the second week's survey, we have created awareness program based on the PLANTATION  |
| We have explained the advantages of PLANTATION by creating a community among them and also explained how it is good for production and soil fertility |
| We have described to PEOPLE the need of using PLANTATION in this Corporate world  |
| Created awareness about the effects caused by pesticides and the side-effects causing by using inorganic farming by future generation                 |
| The main theme of this week is to encourage the farming people to follow the PLANTATION methods in their farms  |
|   |
|   |
|   |

## ACTIVITY LOG FOR THE THIRD WEEK

| Day<br>&<br>Date | Brief description of the daily<br>activity   | Learning Outcome                         | Person In-<br>Charge<br><br>Signature |
|------------------|--|--|---------------------------------------|
| Day – 1          | Explained about which soil is better for PLANTATION and how it maintained according to crop. | Social skills.                           |                                       |
| Day - 2          | PLANTATION methods for increasing soil fertility like plowing under mining.                  | Learned about soil fertility techniques. |                                       |
| Day – 3          | Soil fertility and nutrient management of PLANTATION.  | Social skills.                           |                                       |
| Day – 4          | Selection of seeds for farming and how it plays a key role in farming.                       | Communication skills.                    |                                       |
| Day – 5          | Seed purification. techniques and why it needs purification.                                 | Time management.                         |                                       |
| Day –6           | Watering methods for cultivation by Drip irrigation method.                                  | Technical management.                    |                                       |

# WEEKLY REPORT

**WEEK – 3 (From Dt..... to Dt )**

Detailed Report:

In the third week's survey, we learned about the key components of farming like seed selection, watering techniques etc

For best crop yield seed selection plays an vital role

Soil fertility is a major deciding factor about the yield

We learned about seed purification techniques and nutrient management for PLANTATION

We came to know about the watering techniques and irrigation details

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## ACTIVITY LOG FOR THE FOURTH WEEK

| Day<br>&<br>Date | Brief description of the daily activity  | Learning Outcome  | Person<br>InCharge<br>Signature |
|------------------|--|---|---------------------------------|
| Day – 1          | The crop required which type of micro and macro nutrients and importance of jeevamrutham.                  | Jeevamrutham is a natural liquid fertilizer. It is made by mixing water, dung and urine from cows |                                 |
| Day - 2          | Explain the procedure importance of amrithajalam.  | presence of microbes. that help plant growth is essential in the soil.                            |                                 |
| Day-3            | We also created awareness on acchadana, which reduce water consumption.                                    | Social Skills.  |                                 |
| Day-4            | Interact with the PEOPLE about crops and cultivating methods.  | Awareness on selling crop.  |                                 |
| Day-5            | On the 5 day, we know the cultivating methods which are used by community in detail.                       | Machinery usage in the fields   |                                 |
| Day-6            | Last Day of the week, we know the crop yield status of the community and also know how much time is taken. | An Idea about duration of crop.   |                                 |

# WEEKLY REPORT

**WEEK – 4 (From Dt..... to Dt )**

Objective of the Activity Done:

Detailed Report:

After conducting a 1 week long survey, we came to know that the literacy rate is a little bit low

We came to know that many PEOPLE are facing so many problems

And also we also know about organic farming, It is comprised of an integrated suite of practices that provides the benefits in addition of producing food, fiber and feed.

The PEOPLE in that area said that, even though they work hard the income is less

And in rainy seasons they face lot of problems to cultivate the crop and maintain the crop is very difficult.

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## ACTIVITY LOG FOR THE FIFTH WEEK

| Day & Date | Brief description of the daily activity   | Learning Outcome                   | Person In-Charge Signature |
|------------|---|------------------------------------|----------------------------|
| Day – 1    | Brief description of the daily activity   | Awareness on selling crop.         |                            |
| Day - 2    | We listened about the issues they are facing.   | Social responsibility.             |                            |
| Day – 3    | We understand they don't getting enough profit for their production.                        | Awareness on selling production.   |                            |
| Day – 4    | We also observed power charges for them are so high and they are not getting any subsidies. | Investment is more profit is less. |                            |
| Day – 5    | On the 5th day, we know the cultivating methods which are used by community in detail.      | Learning skills                    |                            |
| Day –6     | Last day we suggested some key points to increase production.                               | Ideal thinking.                    |                            |

# WEEKLY REPORT

## WEEK – 5(From Dt..... to Dt)

Objective of the Activity Done:

Detailed Report:

We started this week some brief description about our activity and created cognizance on selling crops

After some surveys we also perceive some issues on are they facing

We also noticed that the power bills for these individuals are exceptionally high and they are not receiving any financial assistance

We are aware that the community is not reaping sufficient gains from their efforts. We have an in- depth understanding of the farming techniques employed by the group. Recently, we proposed a few strategies to amplify their yield

To ensure success in crop selling, it is important to have awareness on social responsibility, selling production and investments, while also focusing on learning new skills and having ideal thinking

It is essential to consider the impact of diseases on crop production, as diseases can significantly reduce crop yields



## **CHAPTER 4: OUTCOMES DESCRIPTION**

### **Details of the Socio-Economic Survey of the village :**

The project aims to identify, and observe Plantation and collect information about plantation from farmers and people in the village. And to find out the problems the farmers are facing. To find out and the implement short term and long term action plans for the solutions of these problems identified. To conduct community awareness programs concerning these problems. Giving them the best knowledge about some online platforms. Which give details and about plantation.

### **Questions prepared for the survey:**

1. How many times you water the plants per day?
2. Do you follow any methods to protect plants?
3. Do you follow any methods to protect plants ?
4. Do you follow any methods to protect plants ?
5. What sprays /pesticides / herbicides do you use ?
6. what kind of soil do you use ?
7. what precautions do you take to grow plants ?
8. Do you have a CSE ( community supported agriculture ) ?
9. A tree gets planted it's that easy?
- 10.Are you seedlings arriving as scheduled ?
- 11.Do you know which tree is better for health ?
- 12.Do you know green house effect ?
- 13.Do you know the importance of plantation ?
- 14.How do you feel interaction with us ?

## Problems identified in the community:

While surveying different houses and places and meeting several people and the officer in forest office . We observed many problems like the problem watering for plants and climatic changes water problems etc. We observed a major issue that the capital needed for the plantation is not sufficient for a people these days due to increase in cost of seeds ,fertilizers , pesticides and machinery needed and hence farmers are seeking loan and are facing problems paying the debt and even after that there is no guarantee for a fruitful yield so after many discussions with team and interacting with people in forest office and also many farmer . We managed to think of a solution to this issue which is **PLANTATION**. Because cultivating only main crops doesn't give much of a profit hence rotating to a cash crop after cultivation of main crop gives you a great profit and also rotating crops is good for the soil fertility. Also by rotating the crops and cultivating different crops the variety of the edible and other useful crops in our area increases, Increasing the community value. Increases plantation.

## **Short-Term and Long-Term action plan for possible solutions :**

### **Short-Term Solutions**

Knowing about the plantation and type of diseases that each and every crop by the farmers knowledge. In which, every crop has it's own specific disease and specific yielding method which has to followed to except a better yield. The knowledge we have learnt about the crop disease and made an detail evaluation give a clear explanation for the farmers for a best yield.

These explanation helps the farmers to increase the profit of the yield and give us a best and good healthy crop and increases the plantation.

### **Long-Term Solutions**

We have learnt about various plants as shown below with their specific diseases.

|                      |   |   |
|----------------------|---|---|
| DRAGON FRUIT         | : | Rhizome soft rot , Leaf speckle   |
| IVY GOURD            | : | Powdery mildew  |
| LADY'S FINGER (Okra) | : | 1. Damping off – <i>Pythiumaphanidermatum</i><br>2. Twing canker – <i>Fusariumpallidoroseum</i> |
| COTTON               | : | Areolate mildew, Crown gall, Blue disease   |
| OIL PALM             | : | Basal stem rot, Ganoderma Butt rot  |
| MARI GOLD            | : | Septoria, Alternaria  |
| BANANA               | : | Rhizome, soft rot, Leaf speckle   |



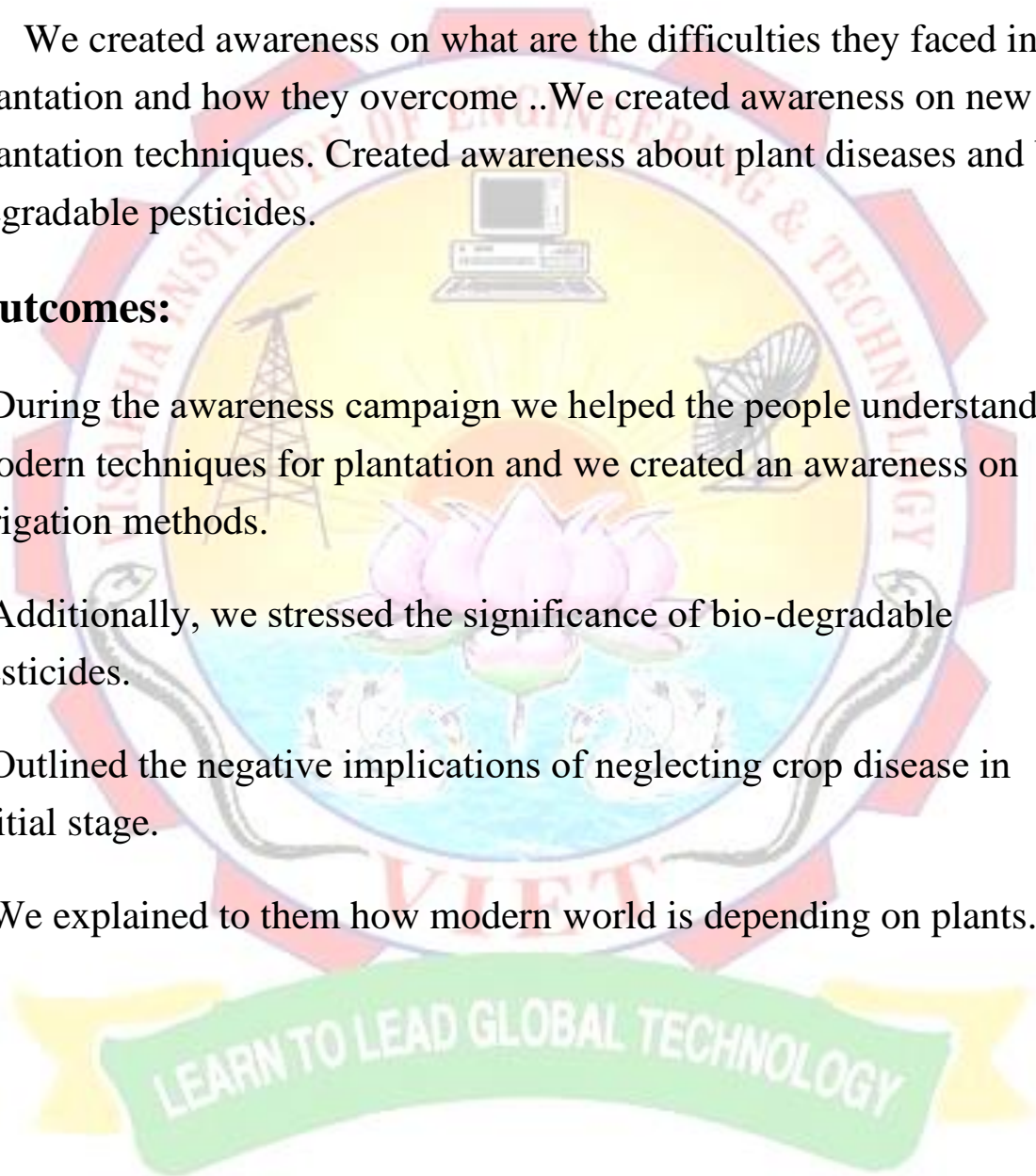
## **Community awareness program and outcomes :**

During our project, we conducted awareness programs in the form of campaigns. We conducted these campaigns in order to bring awareness about plantation among the people about agriculture.

We created awareness on what are the difficulties they faced in plantation and how they overcome ..We created awareness on new plantation techniques. Created awareness about plant diseases and bio degradable pesticides.

### **Outcomes:**

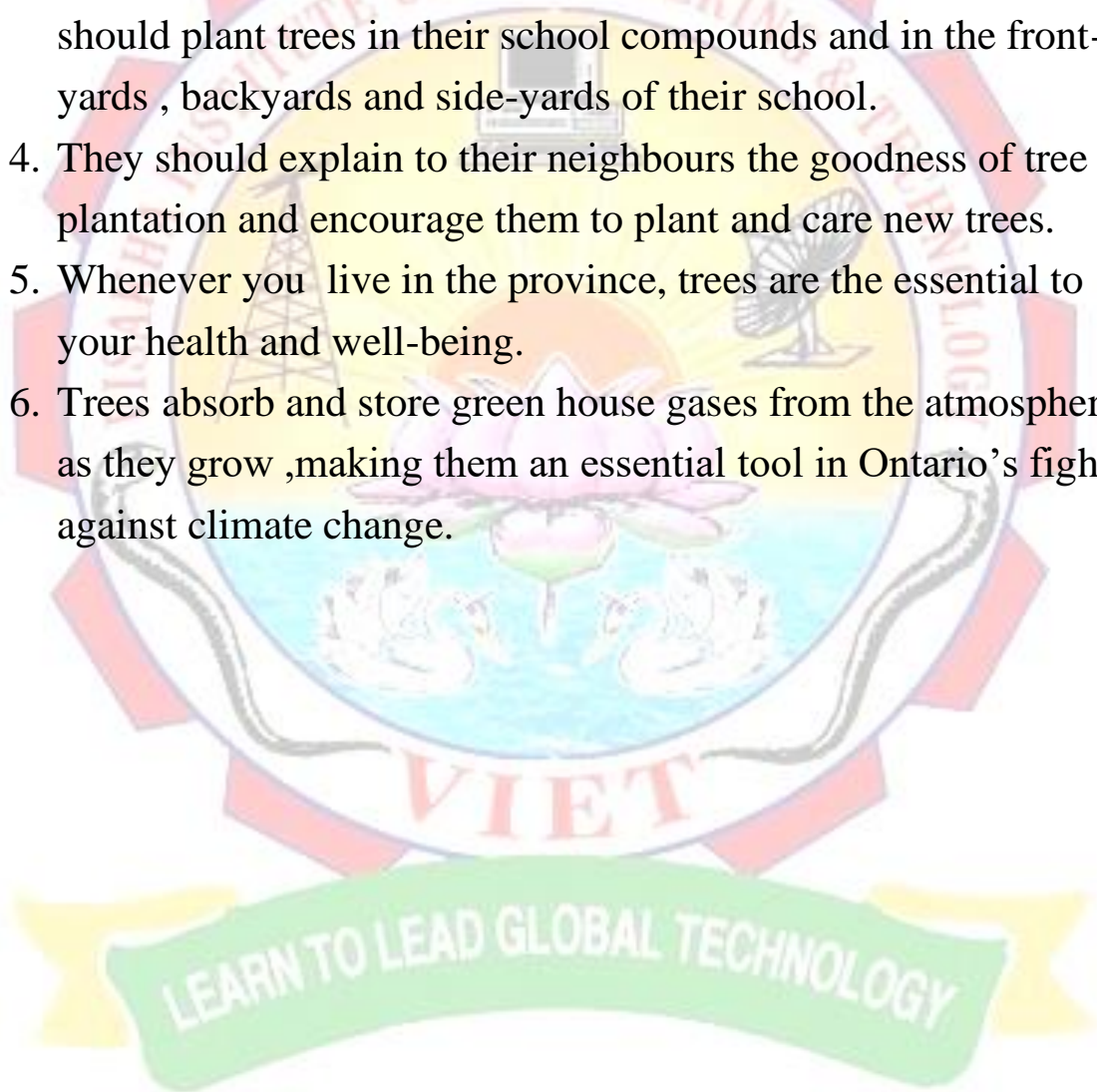
- During the awareness campaign we helped the people understand modern techniques for plantation and we created an awareness on irrigation methods.
- Additionally, we stressed the significance of bio-degradable pesticides.
- Outlined the negative implications of neglecting crop disease in initial stage.
- We explained to them how modern world is depending on plants.





## CONCLUSION

1. Therefore we conclude that trees should be regularly planted to save the mankind and the animal world .
2. Tree plantation and its after-care is a pleasing work too.
3. Students should plant trees and in taking care of them. Students should plant trees in their school compounds and in the front-yards , backyards and side-yards of their school.
4. They should explain to their neighbours the goodness of tree plantation and encourage them to plant and care new trees.
5. Whenever you live in the province, trees are the essential to your health and well-being.
6. Trees absorb and store green house gases from the atmosphere as they grow ,making them an essential tool in Ontario's fight against climate change.



# PHOTOS

