

**A REPORT OF SOCIAL OUTREACH  
PROGRAMME ON AWARENESS  
REGARDING CROP ROTATION**



**Session :**

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**SUBMITTED BY:**

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## **ACKNOWLEDGEMENT**

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I would also like to thank all the farmers present there who listened to me whole heartedly.

SONIKA AGARWAL  
( STUDENT III SEM)

# LIST OF FARMERS

ক্রমিক নং	নাম	প্রাক্তন
১	আলিম সৈয়দ	আলিম সৈয়দ
২	হুসেনায়ে বেগম	
৩	সৈয়দ আব্দুল্লাহ খান	সৈয়দ আব্দুল্লাহ খান
৪	দীনু খান	দীনু খান
৫	আবদুল হামিদ	
৬	আবদুল হামিদ	আবদুল হামিদ
৭	মুজিব খান	মুজিব খান
৮	মুজিব খান	মুজিব খান
৯	মুজিব খান	মুজিব খান
১০	মুজিব খান	মুজিব খান
১১	মুজিব খান	মুজিব খান



## **CHAPTER 1**

### **INTRODUCTION**

George Washington Carver developed crop rotation methods for conserving nutrients in soil and discovered hundreds of new uses for crops such as peanuts , sweet potatoes, and soybeans. It is a very efficient and sustainable strategy.

### **WHY ROTATE CROPS?**

Problems that are encountered when the same type of plant is grown in a field year after year :

1. Some of the nutrients will be depleted more than others based on the needs of that plant.

# **WHAT IS CROP ROTATION?**

Crop rotation is the successive cultivation of different crops in a specified order on the same field in different times. The goals of crop rotation are to help manage soil fertility or reduce problems with soil borne diseases. It prevents growth of pests, weeds, and soil diseases.

## **WHY ROTATE CROPS?**

Problems that are encountered when the same type of plant is grown in a field year after year :

1. Some of the nutrients will be depleted more than others based on the needs of that plant.

2. The soil may become contaminated by large amounts of pests that attack that particular crop.

# **CROP ROTATION BRING MANY BENEFITS**

- Maximise productivity.
- Optimise the health and fertility of the land.
- Reduce pests and diseases.
- Increase opportunities to plant cover crops.



# PRINCIPLES

- I. Crops with deep roots such as carrot should be followed by shallow rooted crops like wheat, rice and corn
- II. Leguminous crops like pulses and alfalfa should be planted after cereal crops such as oats and rice. Legumes host rhizobium that boost atmospheric nitrogen and organic content in soil.
- III. Avoid growing crops of same family in succession as they serve as alternate hosts for pests and diseases.
- IV. Crops that involve heavy irrigation and intensive labour should be grown after crops requiring less water and labour.



# **TYPES OF CROP ROTATION**

## **▪ ONE YEAR ROTATION**

**Maize-mustard.**

**Rice-wheat.**

## **▪ TWO YEAR ROTATION**

**Maize-mustard-sugarcane-fenugreek.**

**Maize-potato-sugarcane-peas.**

## **▪ THREE YEAR ROTATION**

**Rice-wheat-mung-mustard.**

**Cotton-oat-sugarcane-peas-maize-wheat.**

## **ROLE OF CROP ROTATION** **IN PEST MANAGEMENT**

Many pests and pathogens are specific to certain crops sp. By rotating crops , farmers can disrupt the life cycles of pests making it more challenging for them to establish and multiply. This reduces the need of chemical pesticides .

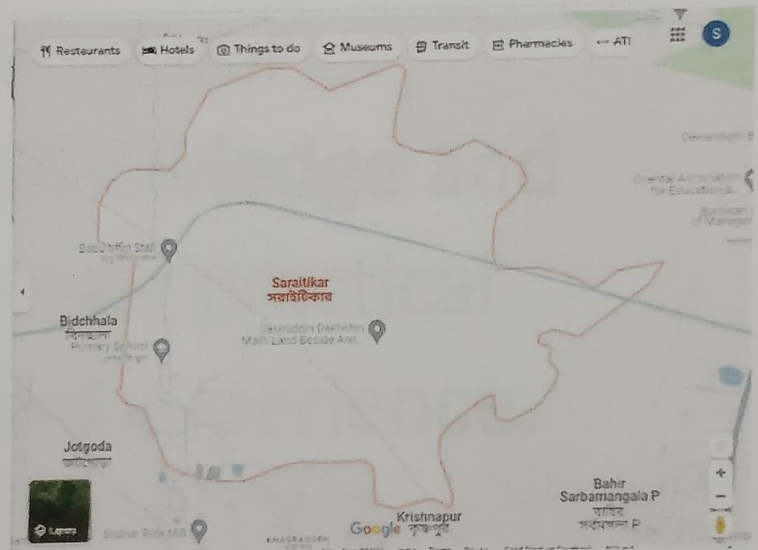
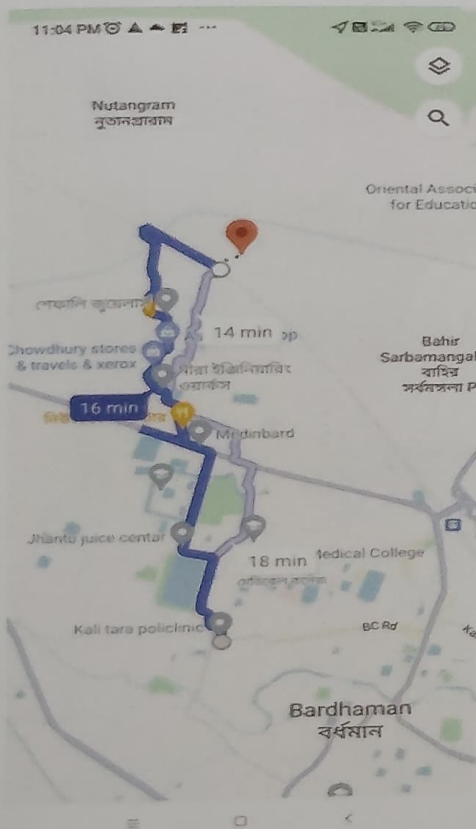
# CHAPTER 2 :

## LOCALITY OF THE SURVEY-

Saraitikar, Purba Bardhaman, West Bengal

## DATE OF SURVEY-

08-02-2024.



Maps of venue-Saraitikar.



# OUTREACH PROGRAMME

## REPORT

At first we visited to a farmland in a small rural area in Saraitiker , Purba Bardhaman.

We met and interacted, with all the farmers working there,we shared our theoretoical knowledge and they shared their practical knowledge and experience.

# **OBJECTIVE OF THE**

# **PROGRAMME**

- Soil health and its implications in agriculture.
- Creating awareness about the contemporary and sustainable agricultural practices like crop rotation.
- Utilisation of surface water for irrigation.
- Providing an idea of some underutilised and medicinal crops.
- Efficient use of biofertilizers.
- Aware them about the problems related to stubble burning and giving them some solutions.