

# College of Agriculture, Phaltan

## Demonstration No-1



**Demonstration on digging and filling pit  
for horticultural (mango) crop.**

## **Demonstration on digging and filling pit for horticultural crops that is filling of pit for mango crop.**

- **Name of the student** ☞ Nale Sameer Bhanudas.
- **Register number** ☞ CAP-2017/86
- **center** - College of Agriculture Phaltan
- **Village** – dudhebavi
- **Date**- 19|07|2020
- **Place**-Dudhebavi, Phaltan
- **No.of Farmers Paticipated**- 6

### **Teaching Aids-**

1. practical manual of HORT-111
2. Krishi Darshani

## **Material –**

1. pick -axe,
2. spade
3. Ghamela
4. Wash material/Trash
5. FYM
6. Sandy Soil
7. Fertilizer(SSP)
8. Mango Seedling

## **Introduction-**

1. The nutrients which or essential to the plant body are supplied through manure and fertilizers.
2. They are key role in plant metabolism.
3. A healthy plant is one which is fulfill in all essential nutrients. Which are given by Fertilizer and manure source.

4. A proper combination of manure and fertilizers can build a potential in the soil which result in increase in production and yield.

### **Objectives-**

1. To know the farmer about the proper method of mango planting
2. To know the farmer importance of digging and filling the pit
3. To know the farmer about filling mixture to enhance rooting.
4. To avoid the plant due to loss of improper pit filling

### **Planning-**

1. In my village, I observed that most of the farmers cultivate mango crop.
2. I decided to conduct demonstration on digging and filling of pit for horticultural crops that is mango crop.
3. In order to conduct demonstration had took Reference from Krushi Darshini and Manual of HORT ¶ 111.
4. I had invited some farmers for conducting demonstration.

5. I had tell them date, time and place of demonstration.

### **Conduction –**

According to planned program I along with farmers gathered together as per fixed date time and place and I started actual process of demonstration as follows:

1. Firstly I was going to the place where the demo to be conducted or on the spot.
- 2 .After that I dug out pit of size 1 metre cube with the help of kudali and spade in north south direction.
3. Proper pit was dug out and soil is removed from the pit.
4. After digging carbaryl 100 gm powder was dusted for control of termite.
- 5.After that I was placed phorate @100gram on the 4 sides of the pit and at the bottom of the pit.

6. After that I was placed 15 CM layer of sugarcane trash at the bottom of the pit.

7. In the middle layer I had placed the mixture of 2.5kg SSP and 20 KG FYM.

8. In that middle layer I had also placed some top soil .

9. After that on the top layer I was placed some sandy soil and some garden soil and filled the pit completely .

### **Question asked by Farmer:**

#### **1. what is the purpose of digging and filling pit?**

Ans- the purpose of digging and filling of pit is to make plant growth better and get nutrients from soil so that it will produce good yield.

#### **2. Which are the improved varieties of mango ?**

Ans ☑ langda, dasheri, Nelam, Totapuri, Baramashi, keshar, payri. are the improved varieties.

### **3. What are the systems of planting of fruit orchard?**

Ans- square, Rectangle, Hexagonal, Diagonal, etc

### **4. What is the recommendation dose of fertilizer for mango?**

Ans- 200:200:300 is the RDF for mango crop with 20 - 30 kg of FYM.

### **Farmers Feedback-**

- Farmers from the village those who are participated in demonstration were satisfied with my demonstration.
- They were told me that they got more knowledge about how to Dug and fill pit for fruit crops they were contended with my answers given to their various questions.
- Farmers told me that they will adopt this technique and knowledge on their field and tell to others farmer also.

### **Students Comment-**

Farmers of my village was not using compost and leaf mould for filling of pit and they were not aware about what are the layers of pit filling but after my demonstration they were get knowledge about how to fill pit. And get valuable information.

They were happy with my demonstration as they got more knowledge about planting of horticultural crops.

### **Follow up-**

1. After my demonstration the participated farmers become satisfied.
2. All the farmers was promised me that there was followed this technique of Digging and filling of pit on their farm.