

## FARM SECTION

### The actual land utilization at present is as follows:

| Sl. No. | Break-up of Land  | Area (ha.) |
|---------|---|------------|
| 1.      | Office complex / colony, hostel etc   | 28.00 ha.  |
| 2.      | Orchards  | 24.10 ha.  |
| 3.      | Forestry  | 15.00 ha   |
| 4.      | Area under Canal use  | 8.98 ha    |
| 5.      | Area under farm road  | 02.50 ha   |
| 6.      | Stony area  | 33.28 ha   |
| 7.      | Area under Haulage test track   | 12.50 ha   |
| 8.      | Area under Percolation tanks  | 04.00 ha   |
| 9.      | Area left externally along with fencing for use of farmer / near-by villagers as road | 02.07 ha   |
| 10 *    | Net Cultivable area ( training & testing activities)                                  | 54.902 ha  |
|         | Total   | 185.332 ha |

Out of the total Institute available land of 185.332 hectare, 130.430 hectare land is being used towards Office area, Orchards, Forestry, Percolation tanks, Test tracks, Canal and residential areas, etc. The remaining 54.902 hectare land is at present Net cultivable area. Out of 54.902 Ha land, 28.00 Hectare is mended for growing seasonal Field crops (Both Kharif & Rabi seasons). Within the area of 28.00 Hectare farm section has been raising different crops like Red gram, Jowar, Maize, Horse gram, Castor, etc. And also supports various training and testing activities.

### HORTICULTURE UNIT DETAILS:

Under farm activities, the Institute has developed various orchards and cultivating field crops suitable to this area. The climatic condition of this region is dry, low rain fall that is 400 to 500 mm. Soil is infested with stones, boulders and hard layers etc. Keeping in view of the climate and soil condition, the following fruit crops have been taken up. Besides, the Institute since inception also making all efforts to change eco system and therefore, developing maximum greenery by planting of social forestry/avenue plants.

| <b>I. AREA OF HORTICULTURE CROPS</b> |                      |                         |                                 |
|--------------------------------------|----------------------|-------------------------|---------------------------------|
| Sl. No.                              | Name of Plants       | Area (Acre)             | No of fruiting Plants (Approx.) |
| 1                                    | SAPOTA               | 16.00                   | 1630                            |
| 2                                    | MANGO                | 1.65                    | 60                              |
| 3                                    | MOSAMBI              | 2.88                    | 200                             |
| 4                                    | LEMON                | 1.22                    | 60                              |
| 5                                    | COCONUT              | 3.88                    | 400                             |
| 6                                    | MORINGA (Drum Stick) | Intercrop               | 30                              |
| 7                                    | TAMARIND             | Sprawled at many places | 50                              |

## II. Cropping Programme Taken Up Under Farm Activities during 2023-24

Total land of Institute - 185.332 hectare.

Net Cultivable area - 54.902 hectare.

| Sl No. | Name of the Crop & Variety | Area in Acres | Date of Sowing | Total seed used (Kg) & Seed rate | Plot No.           | Other Remarks, Stage of the crop |
|--------|----------------------------|---------------|----------------|----------------------------------|--------------------|----------------------------------|
| 1      | Red gram (Nirmal)          | 05            | 23.06.2023     | 20 kg @ 4 kg per acre            | 63 to 66, 69,81&82 | Vegetative growth stage          |
| 2      | Jowar (SSG998)             | 40            | 03.08.2023     | 200 kg @ 5 kg per acre           | 49 to 54, 57&58    | Vegetative growth stage          |

## III. NEW DEVELOPMENTS:

- New Tamarind plantation is like to be planted within the scheduled programme of special campaign 3.0 observing.
- Dry fallen Coconut leaves are incorporated in to the soil and operated a Harrow to make easy incorporation in to the soil for natural decomposition. The chopped material has been used as organic matter to apply in the ring basins of mosambi and coconut orchards.
- Cutting, Pruning of lower branches, dried branches, and diseased branches has been done in the line of Tamarind in order to promote the upright growth and to enhance more number of buds and shoots .This cutting and pruning work improves the growth and allows the air and light penetration in between the tree branches and canopy.
- Tillage work completed in the Sapota orchards, Red gram fields by using cultivator and disc harrow to make orchards and fields weed free. This minimizes the pest infestation and increases the availability of water to the main crop plants.
- Shaped out and trimmed off the Ashoka trees, hedge Duranta, all avenues, and plantations, horticultural plants in and around office garden. made the ring basins to all of the said plantations. Quick lime with copper sulphate applied over the trunk portion, pole region of the entire road side plantation, avenues existed in and around office, estate area.
- Picked out to collect the stones, stubble, boulders, from the orchards during the inter culture.
- Day to day maintenance of horticultural crops, field crops, office garden, Lawn, forestry and other plantations, hedges etc has been done well.

## RAINFALL RECORD IN THIS QUARTER:

| Name of the Month:      | July, 2023 | August, 2023 | September, 2023 |
|-------------------------|------------|--------------|-----------------|
| Rainfall Received ( mm) | 29.0 mm    | 30.0 mm      | 116.0 mm        |