

L-34/KVK/Lohit/2015-16

## Package of Practices of Orange



**Krishi Vigyan Kendra,**  
Lohit, Namsai Dist., Momong  
Arunachal Pradesh  
Pin-792102  
Under  
**ICAR-NRC on Yak,** Dirang, West Kameng  
Arunachal Pradesh

### **Introduction: Selection of site for orchard**

- The site selected for the orchard should have sufficient sunlight.
- The soil should be deep, loose, having good drainage.
- Steep slopes, shallow, gravelly and heavy soils should be avoided.

### **Propagation by Seed**

- Productive mother plants- healthy, high yielder, free from diseases and pests, 15-20 years old plants ,regular bearing plants , fully ripened fruits
- Wash the seed and Sow just after extraction (within 1 week)
- Seedling shifted in secondary bed or polythene bags at 4-6 leaf stages.

### **Planting of Orchard**

- Planting Time – May to August
- Pit Size -2.5'x2.5'x2.5'
- Spacing -6mx 6m
- Pit filled with upper 30 cm soil along with 15-20 kg FYM, 100g urea, 100g MOP, 300g SSP and 100g Phorate 10G granules or Malathion dust.

### **Seedling Treatment**

Ridomil MZ -72 @2.50 g/lt+bavistin 1g /lt solution for 10-15 minutes

### **Manures and Fertilizers**

<b>Age of plants</b>	<b>FYM Kg/ plant</b>	<b>Urea g/plant</b>	<b>SSP g/plant</b>	<b>MOP g/plant</b>
1 year	5	-	-	-
2nd year	5	300	750	150
3rd year	10	600	1500	300
4th year	15	900	2250	450
5th year	20	1200	3000	600
6th year and above	25	1500	3750	750

- Time of Application :Feb-March & Sept. -Oct
- Method of Application : Weeding before application , Ring system, 1m away from the plant.

## PRUNING

- 1st Year : 4-5 well shaped branches are retained and other branches upto 20-25 cm above the ground level are removed.
- Bearing – Remove dried diseased weak branches

## WEED MANAGEMENT

- Hand weeding
- Chemical – Glyphosate @ 3 lt /ha

**Fruit Drop:** Apply Planofix or Multiplex @ 1ml /5 litre water in April- May & Aug-Sept.

## INSECT PESTS

### Trunk borer

#### Symptoms:

Make hole into trunk near base, plant die.

#### Control measures

- i. Inject 5 ml monocrotophos in holes.
- ii. Collection & destruction of adults by shaking branches .
- iii. Pruning & burning of infested twigs.



### Leaf Minor

#### Symptoms:

Silvery serpentine, mines on lower side of leaves, distorted leaves, fruit drop.

#### Control measures

Monocrotophos 2.5ml /lt of water.



### Aphid

#### Symptoms:

Aphids feed on plant cell contents and sap by piercing the plant and sucking up the liquids.

#### Control measures

Spraying of Dimethoate @ 1.5ml/litre of water.



## Scale insect

### Symptoms:

Heavily infested plants grow poorly and may suffer dieback of twigs and branches.

### Control measures

Spraying of malathion 1ml/litre of water.

## DISEASES

### Phytopathora rot

#### Symptoms:

Gummy on surface of bark , turn brown crack , leaves rot.

#### Control measures

Avoid water stagnation around the plants. Scraping of affected parts and pasting with Bordeaux paste.

### Powdery mildew

#### Symptoms:

The mycelium grows over the surface of the leaf, absorbing nutrients from the plant. Later, the leaf may turn yellowish and begin to dry up and die,

#### Control measures:

Pruning of dead twigs followed by application of tridemorph or benzimidazole(3g/l).

### Citrus canker

#### Symptoms:

Typically raised and seen on both sides of the leaf.

#### Control measures:

Cutting of infected twigs followed by spraying of 1% Bordeaux mixture.



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