PACKAGE OF PRACTICES FOR BANANA CULTIVATION IN CHURACHANDPUR DISTRICT







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Banana belongs to family Musaceaeis one of the important fruit crops of the region. It is quite popular in the entire Northeaster states like Assam, Mizoram, Meghalaya, Nagaland, Manipur and Tripura. Banana fruits are mostly used for table purpose as well as for cooking vegetables, while in some area of the region; mature green fruits are also used for making banana chips.

Cultivars

Chini Champa (Ney Poovan), Champa(Poovan), Jahaji (Dwarf Cavendish), Bor Jahaji and Grande Naine (Giant Cavendish) are the some important cultivars grown in the region.

Soil and Climate

Clay soil with proper drainage as well as drained loamy soil. It grows well in tropical to subtropical climate.

Propagation

4 months old Sword sucker of 1-2 kg weight and 80-120 cm heights having a piece of underground stem with a few roots attached to it is suitable for planting, but nowadays tissue cultured bananas are gaining more popularity.





Planting

Rainy season is the best time for planting. They are planted in small pits of 30x30x30 cm. The planting distance varies from 2x 2m to 3x3 m.

Manure and Fertilizer

An application of 8-10 kg FYM/plant is given at planting time. Fertilizer mixture comprising 180 g N + 100 g P_2 O_5 + 250 g K_2O per plant/year is ideal. The full dose of phosphorus and half dose of potassium is applied at the time of planting while nitrogen is given in 3 split doses at 2, 4 and 6 months after planting.

After care

- ➤ Daughter-suckers should be removed promptly until the mother-plant flowers.
- The removal of dry leaves and useless pseudostems should be done in time.



- After all the fruits are formed, the pendant portion of the remaining inflorescence along with the heart should also be removed.
- The propping of plants with bamboo poles after flowering is also necessary.

Insect/Pests

Pseudostem weevil: Grubs initially feed on leaf sheath and then bore into pseudostem, which get riddled, weakened and rottened. Infested plants die when central portion of stem is damaged.

Uproot and burn the infested plant. At initial stage of infestation apply Carbofuran @ 3g/plant in the soil.

Rhizome weevil: The grubs feed in the rhizome, therefore infested rhizome get riddled with holes and becomes weak..

Use of healthy sucker for planting is strongly recommended and dipping of the suckers in 0.1 % Quinalphos emulsion reduces infestation.

Banana beetles: The beetles feed on tender unfold leaves and fruits. The beetles scratch epicarp of the tender fruits, blemish them and render unmarketable.

Spray Carbaryl(2.5 g/litre) during April-September coinciding with emergence of new growth. Repeat spray at fortnightly interval if required and stop spraying about 15 days before bunch harvesting.

Diseases

Panama wilt: Yellowing of leaves of top sides and later on hanging of leaves around pseudostemare the symptoms of panama wilt.

Dipping of planting materials in Carbendazim 2g/litre) before planting followed by drenching at bimonthly intervals from 5 months after planting is useful.

Sigatoka leaf spot: Fungus infects the younger leaves through stomata. Faint yellow spots gradually turn to streaks making the central portion necrotic.

Application of Bordeaux mixture (4:4:50), Dithane M-45 (2.5 g/L) is found useful.

Anthracnose: Regular to irregular spots on leaves with dark margins and grayish center. On fruits typical dark brown depressed lesion appears.

Spraying of Carbendazim (1 g/litre), Calixin(2 gllitre) in humid weather is found useful.

Bunchy top virus: This disease is transmitted through aphid. Marked stunting and bunching of leaves characterize the affected plants. The crown leaves are undersized.

The infected plant should be removed and burned. Spraying of Dimethoate(1.5 mll litre) at fortnightly interval reduces the aphid significantly.

Harvesting and vield

Dwarf varieties commence flowering in about nine months after planting and the fruits take about three months more to mature whereas, tall varieties take about 12 months for flowering after planting.

Maturity index:

- Fruits reached full size, ridges of the fruit become round from angular.
- A distinct change in colour from dark green to light green.

The bunch is cut, retaining about 15 cm of the peduncle above the first hand. The yield varies considerably from 10-30 kg bunch/plant depending upon the cultivars and management.

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