



MANGO

Package Of Practices

From Field Preparation to Harvesting



Soil & Field Preparation

Mango grows well in deep, well-drained soils free from hard pan and waterlogging. Maintain an ideal soil pH of 5.5-7.5 with low salinity. The crop performs best under warm tropical conditions with a temperature of 24-27°C. Ensure the water table remains below 3 m.



Planting Material & Spacing

Propagate mango through veneer/side grafting and epicotyl (stone) grafting.

Maintain recommended spacing:

- **Traditional/Low Density:** 10 m × 10 m or 12 m × 12 m in heavy rainfall/rich soils to allow large canopy development.
- **High Density Planting:** 5 m × 5 m or 2.5 m × 2.5 m for dwarf varieties like Amrapali and Sindhu.



Pit Filling & Root Development

At planting, mix well-decomposed FYM/Vermicompost with the following per pit:

- **FABIANA** (Microbial NPK Liquid): 20-25 ml to enhance nitrogen fixation, phosphorus solubilization, and potassium mobilization.
- **KRISA** (Potassium Solubilizing Bacteria): 20-25 ml to improve nutrient availability and early vigor.
- **MYCOPEP** (Mycorrhiza GR): 100-150 g to strengthen root growth, increase nutrient and water uptake, and improve soil microbial activity.

This combination supports strong plant establishment, root development, and long-term orchard productivity.



Irrigation Management

Avoid frequent irrigation 2-3 months before flowering. Maintain irrigation at around 50% field capacity. Basin irrigation is commonly used, while drip irrigation is preferred for efficient water use and fertigation.



Growth Regulation & Yield Management

For improving fruit retention, spray **YUPPR** (NAA) @ 2-2.5 ml/L of water during flowering and early fruit set.

For flower induction and regulation during off years, apply **PEP-STAR** (Paclobutrazol 23% SC) during the post-harvest period, generally from August to September/October.

- 7-15 years: 15 ml
- 16-25 years: 20 ml
- Above 25 years: 25-40 ml

PEP-STAR (Paclobutrazol 23% SC) helps support synchronized flowering, better panicle emergence, and higher yield.



Weed Management

Use mulching to suppress weeds and conserve soil moisture. For broad-spectrum weed control in mango orchards, **GLEZON** (Glyphosate 71% SG) is used with extreme caution to avoid drift onto mango roots or foliage.



Pest Management

Mango is commonly affected by hopper, mealy bug, thrips, fruit fly, stem & fruit borer, and bark-eating caterpillar, which can damage flowers, fruits, shoots, and bark.

For biological pest management, use:

- **BAREEK** (Beauveria bassiana 1.15% WP): Foliar spray for caterpillars and sucking pests.
- **MERHIZO** (Metarhizium anisopliae 1.0% WP): Soil application for pests that pupate or survive in the soil.
- Under high pest pressure, use need-based chemical sprays such as **LAMRON 5** (Lambda Cyhalothrin 5% EC), **TRIOMETHOXAM 25** (Thiamethoxam 25% WG) **25**, and **MADAD** (Buprofezin 15 % + Acephate 35 % WP), rotating molecules to help manage resistance.



Disease Management

Major mango diseases include malformation, powdery mildew, anthracnose, black tip, and stem canker, which affect flowering, fruit quality, and tree health.

For biological disease suppression and plant immunity enhancement, apply:

- **PSEUDO-PEP** (Pseudomonas fluorescens 1.0% WP)
- **TRICHO-PEP H** (Trichoderma harzianum 2.0% AS)
- **PEPTILIS** (Bacillus subtilis 1.5% AS)

These bio-products support the suppression of soil and foliar pathogens while improving rhizosphere health.

For curative and preventive control under severe infection, use **CLAUN** (Carbendazim 12% + Mancozeb 63% WP), **HIKSA-5** (Hexaconazole 5% SC), **TAL M-45** (Mancozeb 75% WP) in rotation, as appropriate for the disease and crop stage.



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Complete and Integrated Crop Care Program for Mango

Maximizing Growth, Minimizing Losses



Planting / Establishment



Vegetative Growth



Flowering & Fruit Set



Fruit Development

Bio Pesticides	TRICHO-PEP V PSEUDO-PEP MERHIZO	PSEUDO-PEP PEPTILIS BAREEK MERHIZO	BAREEK
Fertilizer Nutrient	FABIANA KRISA MYCONOOR	FABIANA	
Herbicide	GLEZON		
Bio Stimulants	YUPPR PEPSTAR		
Pesticides	TRIOMETHOXAM 25 CLAUN HIKSA-5 TAL M-45		LAMRON 5 CLAUN HIKSA-5

Terms & Conditions: *Recommendations are indicative and may vary based on local conditions. Application guidelines may vary depending on soil, climate, and other conditions. Users are advised to conduct trials before use.



7-10 g/Ltr of water



20-25 ml/pit



1-2.5 g/L of water



10 ml/L of water



10-15 g/Ltr water



10-15 g/Ltr water



300 ml/acre



100-150 g/pit



200 ml/100 Ltr of water



0.5 ml-1.0 ml/ltr of water



700 g/acre



2-2.5 ml/L water



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