PONALAB BIOGROWTH PVT LTD

Coconut Crop Management & Disease Protection Schedule (1 Acre)

1. MAJOR DISEASES & PESTS IN COCONUT

Disease/Pest Name	Main Symptoms & Field Identification	Recommended Ponalab Product & Dosage
Bud Rot *(Phytophthora palmivora)*	Yellowing of inner leaves, rotting of central bud/spindle, unpleasant odor, and eventual leaf collapse.	• **Trivikram:** 50–100 g/palm (Root drenching) • **Chaitanya 24:** 20 g/palm (Base application) • **PMC** - 2 kg/acre
Stem Bleeding *(Ceratocystis paradoxa)*	Dark reddish-brown liquid bleeding from trunk cracks, decay of internal tissue, and reduced leaf size.	• **Trivikram:** Apply paste on affected trunk area after chiseling. • **PMC:** 500 g/palm
Ganoderma Wilt / Thanjavur Wilt *(Ganoderma lucidum)*	Rotting of feeder roots, bleeding at stem base, yellowing and drooping of outer fronds, button shedding.	• **Trivikram:** 100 g/palm (Root drenching) • **Chaitanya 24:** 100 g/palm (Base app) • **PMC: 2kg/acre**
Rhinoceros Beetle *(Oryctes rhinoceros)*	Characteristic 'V' or diamond-shaped cuts on fronds, boring holes into the spindle leading to stunted growth.	• **Heer:** 2 kg/acre in manure pits. • **Brutus:** 3 ml/L (Leaf axil application) • **Grubex: 2kg/acre**
Eriophyid Mite *(Aceria guerreronis)*	Triangular pale patches near buttons, rough husk surfaces, cracking, and button shedding/deformed nuts.	• **Yuktava :** 5 ml/L • **Trishakthi:** 3 ml/L (Spray on buttons)

2. STAGE-WISE CROP NUTRITION & APPLICATION SCHEDULE

Crop Stage	Timing / Season	Ponalab Product Solution	Application Rate & Method
Seedling Establishment	At Planting	Trivikram + Ponaplus	Treat planting pits and root ball prior to planting to prevent early root rot.
Pre-Monsoon Dose	May – June	Jeeva Granules, NPK Consortia	**Jeeva Granules:** 500 g/palm in basin. **NPK Consortia:** 100–200 g/palm.
Monsoon / Active Growth	August – September	Raheel / Bhumiras 22, Pomus17	**Raheel/Bhumiras 22:** 3ml/L via drip. **Pomus17:** 3 ml/L foliar spray.
Nut Filling & Harvest	Continuous Rounds	Powermix, Pona Potash	**Powermix:** 1–2 kg/acre via drip. **Pona Potash:** 5 ml/L spray during filling.

3. IRRIGATION & SPECIFIC APPLICATION GUIDELINES

Standard Basin / Drip Dosing
Apply Raheel (2 L/acre) every 60–90 days during nut development cycles to boost root vigor and promote standard nut size.

Targeted Root Drenching
For Ganoderma or Stem Bleeding control, drench tree basins with Trivikram (50 g/palm) in 5 liters of water per tree.

Axil Application for Beetles
Fill topmost leaf axils of each palm with a blend of Metarhizium and fine sand twice yearly to prevent beetle damage.

4. KEY BEST PRACTICES FOR HIGH COCONUT YIELD

- **Integrated Nutrient Management:** Apply NPK Consortia and Jeeva Granules in two split doses (Pre-Monsoon and Post-Monsoon) in a 1.5m to 2m radius around the palm basin.
- **Water & Drainage Management:** Ensure adequate drainage during heavy monsoons to reduce Bud Rot and Ganoderma incidence. Prevent water stress during dry months to prevent heavy button shedding.
- **Pest & Mite Control:** Inspect young buttons regularly. Spray Pona Mite or Trishakthi early to prevent husk scarring, deformation, and copra reduction.
- **Nut Weight & Copra Quality:** Regular inclusion of Pona Potash during nut filling waves significantly improves copra weight, oil percentage, and overall yield.
- **Safety & Tank-Mix Precaution:** Avoid mixing Ponalab bio-fertilizers and biopesticides with harsh synthetic copper-based fungicides.

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