PONALAB BIOGROWTH PVT LTD

Coffee Crop Management & Disease Protection Schedule (1 Acre)

1. MAJOR DISEASES & PESTS IN COFFEE

Disease/Pest Name	Main Symptoms & Field Identification	Recommended Ponalab Product & Dosage
Coffee Leaf Rust (CLR) *(Hemileia vastatrix)*	Pale yellow spots on upper leaf surface with bright orange-yellow powdery pustules underneath; causes defoliation and dieback.	• **Trivikram:** 5 g/L • **PMC:** 2 kg/acre (Foliar spray) • **Chaitanya 24:** 5 g/L
Black Rot / Koleroga *(Corticium koleroga)*	Blackening and rotting of leaves, berries, and clusters; leaves hang attached by thin fungal threads in monsoon.	• **Trivikram:** 5 g/L • **PMC:** 2 kg/acre (Foliar spray) • **Chaitanya 24:** 5 g/L
Coffee Berry Borer (CBB) *(Hypothenemus hampei)*	Pin-sized entrance hole near the navel/tip of green or ripe berries, hollowed beans, and premature berry drop.	• **Brutus:** 3 ml/L
White Stem Borer & Mealybugs *(Xylotrechus / Planococcus)*	Ridges on main trunk, wilting of bushes; waxy white clusters on roots and berry clusters causing sap loss.	• **Brutus:** 3 ml/L

2. STAGE-WISE CROP NUTRITION & SPRAY SCHEDULE

Crop Stage	Timing / Season	Ponalab Product Solution	Application Rate & Method
Pre-Blossom & Blossom	February – March	Pomus17 + NPK Consortia	Apply **NPK Consortia** in soil and spray **Pomus17** (3 ml/L) for healthy blossom and fruit set.
Pre-Monsoon Protection	May – June	Trivikram + PMC + Jeeva Granules	Apply **Jeeva Granules** (8 kg/acre) in plant collar basins; spray **PMC** for Leaf Rust & Black Rot shield.
Berry Development	July – September	Raheel / Bhumiras 22 + Yuktava	Apply **Raheel** (500 ml/acre) via soil/drip; spray **Brutus** for Berry Borer control.
Post-Monsoon & Ripening	October – November	Powermix + Pona Potash	Spray **Pona Potash** (5 g/L) and apply **Powermix** (2 kg/acre) to improve berry size, weight, and bean density.

3. SPECIFIC APPLICATION GUIDELINES

Under-Leaf Rust Spray
Direct PMC sprays thoroughly to the undersides of leaves where Hemileia vastatrix rust spores germinate.

Berry Borer Targeting
Spray **Brutus** during early berry development before borer larvae bore deep inside the bean.

Collar Drench & Stem Swabbing
Swab stems with Trishakthi and drench bases with Trivikram (50 g/bush) to prevent stem borers and root rot.

4. KEY BEST PRACTICES FOR HIGH COFFEE YIELD & QUALITY

- **Shade & Canopy Management:** Regulate shade trees prior to monsoon to ensure light penetration and adequate air circulation, minimizing Leaf Rust and Black Rot conditions.
- **Collar Hygiene & Weed Control:** Maintain clean collar basins. Apply Jeeva Granules mixed with organic manure to enhance feeder root activity and nutrient absorption.
- **Coffee Berry Borer Prevention:** Harvest ripe berries completely without leaving gleanings on bushes or ground, and maintain preventative biological sprays of Pona Bossy or Yuktava.
- **Bean Size & Outturn Enhancement:** Foliar feeding with Pona Potash during late berry expansion increases bean density, bold outturn percentage, and cup quality.
- **Safety & Tank-Mix Precaution:** Avoid mixing Ponalab bio-fertilizers and biopesticides with harsh copper-based chemical fungicides or alkaline chemicals.

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