PONALAB BIOGROWTH PVT LTD

Tomato Crop Management & Disease Protection Schedule (1 Acre)

1. MAJOR DISEASES & PESTS IN TOMATO CROP

DISEASE / PEST NAME	MAIN SYMPTOMS & FIELD IDENTIFICATION	RECOMMENDED PONALAB PRODUCT & DOSAGE
Early & Late Blight *(Alternaria / Phytophthora)* **Bacterial Wilt** *(Ralstonia solanacearum)*	Concentric rings on leaves, brown patches on stems/fruits; rapid rotting in humid conditions. Sudden wilting of green foliage, vascular browning, oozing from cut stems.	• Trivikram: 1kg/acre (Soil drenching) • PMC: 2 kg/acre (Soil drenching) • Chaitanya 24 : 1kg/L (Soil drenching) • Chaitanya 24: 1 kg/acre (Drenching) • Trivikram: 1 kg/acre
Leaf Curl Virus (ToLCV) & Whiteflies / Thrips	Upward/downward leaf curling, puckering, stunted canopy, vector feeding.	• Yuktava: 2–3 ml/L • Pona Bossy / Pona Verti: 2–3 g/L • Yellow & Blue Sticky Traps
Fruit Borer & Pinworm *(Helicoverpa / Tuta absoluta)*	Bored holes in fruits, mines on leaves, frass accumulation near pedicel.	• Brutus (*Bt*): 2 ml/L • Heer: 2–3 g/L • Trishakthi: 2–3 ml/L
Root-Knot Nematodes	Root galls, stunting, nutrient deficiency symptoms, early vine collapse.	• Nemarazer: 2–3 kg/acre • Sowmyaa: 1 L/acre (Soil/Drip)

2. STAGE-WISE CROP NUTRITION & SPRAY SCHEDULE

CROP STAGE / TIMING	DAYS AFTER TRANSPLANTING	PONALAB PRODUCT SOLUTION	APPLICATION RATE & METHOD
Nursery / Root Dip	At Transplanting	Trivikram + Ponaplus	Dip seedling roots in solution for 15 mins before planting.
Basal Dose (Soil Prep)	Before Planting	NPK Consortia, Trivikram, Jeeva Granules	• NPK Consortia: 1–2 kg/acre • Jeeva Granules: 10 kg/acre
Vegetative Growth	15–30 DAT	Raheel / Bhumiras 22, PMC, Ponaplus	• Raheel / Bhumiras 22: 500 ml/acre • PMC: 2 kg/acre • Ponaplus: 3–5 ml/L
Flowering & Fruit Set	35–60 DAT	PMC, Pomus17, Micronutrients	• PMC: 2 kg/acre • Pomus17: 2–3 ml/L • Add Boron & Calcium Nitrate and other Micronutrients
Fruit Harvest & Picking	65+ DAT (Continuous)	Powermix, PMC, Pona Potash	• Pona Potash: 5 g/L prior to pickings • PMC: 2 kg/acre monthly

3. DRIP & FOLIAR APPLICATION GUIDELINES

DRIP APPLICATION

Raheel 1 Litre / Acre
Interval: Every 15–20 days through active flowering & continuous harvesting.

FOLIAR SPRAYING

Every 15–20 Days
Alternate PMC & Pomus17 to protect foliage, flowers, and fruit cluster set.

PRE-HARVEST DOSE

Pona Potash @ 5g/L
Apply before fruit picking to increase fruit firmness, red color & shelf life.

4. KEY BEST PRACTICES FOR DISEASE-FREE TOMATO CROP

Cultural & Disease Prevention Practices:

- **Blight & Wilt Management:** Late blight and bacterial wilt spread rapidly under high moisture. Drench *Trivikram* (1–2 kg/acre) or *Chaitanya 24* near the root zone at initial symptoms.
- **Seedling Root Treatment:** Dip nursery seedling roots in *Trivikram* & *Ponaplus* solution before transplanting to establish early root immunity and reduce damping-off losses.
- **Soil Health Boost:** Incorporate *Jeeva Granules* @ 10 kg/acre during soil bed preparation to foster beneficial soil microflora and improve soil structure.
- **Blossom End Rot & Fruit Drop Prevention:** Supply adequate Calcium and Boron alongside *Pomus17* (2–3 ml/L) during peak flowering to prevent blossom end rot and maximize fruit set.
- **Sucking Pest & Virus Vector Control:** Deploy yellow and blue sticky traps (10–15 traps/acre). Spray *Yuktava* (2–3 ml/L) mixed with *Pona Bossy* (2 g/L) to suppress whiteflies and thrips, preventing Tomato Leaf Curl Virus transmission.
- **Fruit Quality & Storage Improvement:** Spray *Pona Potash* @ 5 g/L during fruit expansion to increase pericarp thickness, uniform deep red color, and post-harvest shelf life.

Safety & Tank-Mix Precaution:

Do NOT mix Powermix with any chemical or bio-pesticide product. Maintain a 4–5 day gap between bio-fungicides and copper or systemic chemical sprays. Always perform a jar compatibility test prior to tank mixing.

5. CORPORATE CONTACT & SUPPORT DETAILS

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