PONALAB BIOGROWTH PVT LTD

Ginger Crop Management & Disease Protection Schedule (1 Acre)

1. MAJOR DISEASES & PESTS IN GINGER CROP

DISEASE / PEST NAME	MAIN SYMPTOMS & FIELD IDENTIFICATION	RECOMMENDED PONALAB PRODUCT & DOSAGE
Soft Rot / Rhizome Rot *(Pythium spp.)* **Bacterial Wilt** *(Ralstonia solanacearum)*	Water-soaked rotting of rhizomes, foul odor, yellowing of leaves starting from lower to top shoots. Rapid drooping, curling & drying of leaves, dark water-soaked margins on pseudostems, bacterial ooze on pressing.	• Trivikram: 1–2 kg/acre (Soil drenching) • Chaitanya 24: 1–2 kg/acre • Bhumiras 22 / PMC: 500 ml/acre • Trivikram: 2 kg/acre (Soil drenching) • PMC / NPK Consortia: 2 kg/acre for root immunity
Leaf Spot / Blight *(Phyllosticta / Colletotrichum)*	Small oval yellowish-brown spots on leaves that turn gray with dark borders, premature leaf drying.	• PMC: 2 kg/acre (Foliar Spray) • Pomus17: 2 ml/L (Foliar Spray)
Shoot Borer & Rhizome Fly	Holes in pseudostem, central shoot drying (dead heart), maggots feeding inside rhizome causing decay.	• Trishakthi: 2–3 ml/L • Brutus: As per label • Yuktava: 2–3 ml/L
Root-Knot Nematodes	Root galls, stunted plant growth, leaf yellowing, making roots vulnerable to fungal rots.	• Nemarazer: 2–3 kg/acre • Sowmyaa: 1 L/acre (Soil/Drip)

2. STAGE-WISE CROP NUTRITION & SPRAY SCHEDULE

CROP STAGE / TIMING	DAYS AFTER PLANTING	PONALAB PRODUCT SOLUTION	APPLICATION RATE & METHOD
Seed Treatment (Rhizome Dip)	At Sowing Time	Trivikram + Ponaplus	Dip rhizomes in solution for 15–20 mins before planting.
Basal Dose (Soil Application)	Before Sowing	NPK Consortia, Trivikram, Jeeva Granules	• NPK Consortia: 1–2 kg/acre • Jeeva Granules: 7 kg/acre
Vegetative & Rhizome Initiation	30–45 Days	Raheel / Bhumiras 22, PMC, Ponaplus	• Raheel / Bhumiras 22: 500 ml/acre • PMC: 2 kg/acre • Ponaplus: 5 ml/L
Rhizome Development Stage	60–90 Days	PMC, Pomus17, Micronutrients	• PMC: 2 kg/acre • Pomus17: 2 ml/L • Add Mg & Zn Sulphate + Boron And Micronutrients : 2kg / acre
Bulking & Maturity Stage	120–150 Days	Powermix, PMC, Pona Potash	• Pona Potash: 5 g/L (Prior to harvest) • PMC: 2 kg/acre

3. DRIP & FOLIAR APPLICATION GUIDELINES

DRIP APPLICATION
Raheel 1 Litre / Acre
Interval: Once every 15–20 days during active vegetative & rhizome growth.

FOLIAR SPRAYING
Every 20 Days
Alternate PMC & Pomus17 to protect foliage from leaf spot/blotch.

PRE-HARVEST DOSE
Pona Potash @ 5g/L
Apply 2–3 weeks before harvest to boost rhizome size & essential oils.

4. KEY BEST PRACTICES FOR DISEASE-FREE GINGER

Cultural & Disease Prevention Practices:

- **Soft Rot & Wilt Prevention:** Soft rot and bacterial wilt thrive in waterlogged soil. Ensure excellent raised bed drainage and drench soil with *Trivikram* (1–2 kg/acre) at early signs.
- **Rhizome Seed Treatment:** Always dip seed rhizomes in *Trivikram* & *Ponaplus* before planting to prevent seed-borne infection.
- **Soil Health Boost:** Apply *Jeeva Granules* @ 7 kg/acre at planting to enrich soil microflora and build crop immunity against soil pathogens.
- **Pre-Flowering & Rhizome Stage Nutrition:** Incorporate Magnesium Sulphate, Zinc Sulphate, and Boron via soil/drip before flowering to encourage heavy rhizome branching.
- **Foliar Immunity:** Maintain a 20-day spray schedule with *Ranjay 35* (2 g/L) and *Pomus17* (2 ml/L) for leaf health and broad-spectrum fungus control.
- **Rhizome Bulking:** Spray *Pona Potash* @ 5 g/L during the final bulking phase to boost rhizome size, weight, essential oil content, and storage quality.

Safety & Tank-Mix Precaution:

Do NOT mix Powermix with any other chemical or bio-fertilizer product. Always perform a small jar compatibility test prior to tank mixing.

5. CORPORATE CONTACT & SUPPORT DETAILS

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