PONALAB BIOGROWTH PVT LTD

Turmeric Crop Management & Disease Protection Schedule (1 Acre)

1. MAJOR DISEASES & PESTS IN TURMERIC CROP

DISEASE / PEST NAME	MAIN SYMPTOMS & FIELD IDENTIFICATION	RECOMMENDED PONALAB PRODUCT & DOSAGE
Rhizome Rot / Soft Rot *(Pythium aphanidermatum)*	Water-soaked rotting at base of pseudostem, yellowing and drying of leaves, foul odor, collar collapse.	• Trivikram: 1–2 kg/acre (Soil drenching) • Chaitanya 24: 1–2 kg/acre • Bhumiras 22/ PMC: 500 ml/acre
Leaf Blotch *(Taphrina maculans)*	Small reddish-brown yellow spots appearing on upper surface of leaves, turning grey and merging together.	• PMC: 2 kg/acre (Foliar Spray) • Pomus17: 2 ml/L (Foliar Spray)
Leaf Spot *(Colletotrichum capsici)*	Elliptical brown spots with yellow halos, leading to premature leaf drying and reduced photosynthesis.	• Trivikram: 1 kg/acre (Soil drenching) • Chaitanya 24: 1 kg/acre • PMC: 500 ml/acre
Rhizome Scale & Shoot Borer	Scales sucking sap from stored rhizomes; borers feeding inside central shoots causing dead hearts.	• Trishakthi: 2–3 ml/L • Brutus: As per label instructions • Yuktava: 2–3 ml/L
Root-Knot Nematodes	Stunted growth, leaf yellowing, galls on roots allowing easy entry for fungal rhizome 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 Planting Time	Trivikram + Ponaplus	Dip seed rhizomes in solution for 15–20 minutes before planting.
Basal Application (Soil Prep)	Before Sowing	NPK Consortia, Trivikram, Jeeva Granules	• NPK Consortia: 1–2 kg/acre • Jeeva Granules: 7 kg/acre
Sprouting & Vegetative Phase	30–45 Days	Raheel / Bhumiras, 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
Rhizome Bulking & Maturity	120–160 Days	Powermix, PMC, Pona Potash	• Pona Potash: 5 g/L (Before final harvesting) • 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 Ranjay 35 & Pomus17 to protect foliage from leaf spot/blotch.

PRE-HARVEST DOSE

Pona Potash @ 5g/L
Apply 2–3 weeks before harvesting to boost curcumin content & weight.

4. KEY BEST PRACTICES FOR DISEASE-FREE TURMERIC CROP

Cultural & Disease Prevention Practices:

- **Rhizome Rot Prevention:** Rhizome rot is heavily triggered by water stagnation. Ensure raised bed planting with effective drainage, and drench the soil with *Trivikram* (1–2 kg/acre) at early signs of wilting.
- **Seed Rhizome Treatment:** Always dip seed rhizomes in *Trivikram* & *Ponaplus* before planting to protect against soil-borne pathogens and enhance sprouting.
- **Soil Biology & Root Health:** Apply *Jeeva Granules* @ 7 kg/acre at soil prep to increase microbial activity and build soil resistance.
- **Pre-Flowering & Branching Stage:** Incorporate Magnesium Sulphate, Zinc Sulphate, and Boron via soil and drip during active rhizome development for optimal primary and secondary finger expansion.
- **Foliar Disease Protection:** Maintain a regular 20-day spray cycle using *Ranjay 35* (2 g/L) and *Pomus17* (2 ml/L) to control leaf blotch and leaf spot.
- **Curcumin & Quality Enhancement:** Spray *Pona Potash* @ 5 g/L during the final bulking phase to boost curcumin percentage, rhizome size, color, and dry weight.

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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