PONALAB BIOGROWTH PVT LTD

Dragon Fruit Crop Management & Disease Protection Schedule (1 Acre)

1. MAJOR DISEASES & PESTS IN DRAGON FRUIT

DISEASE / PEST NAME	MAIN SYMPTOMS & FIELD IDENTIFICATION	RECOMMENDED PONALAB PRODUCT & DOSAGE
Stem Canker & Anthracnose *(Neoscytalidium / Colletotrichum)*	Sunken reddish-orange to brown lesions on cladodes; stem rot during wet weather.	• Trivikram: 1kg/acre (Root drenching) • PMC: 2 kg/acre (Foliar Wash) • Chaitanya 24: 1 kg/acre (Root drenching)
Soft Rot & Basal Rot *(Erwinia / Fusarium)*	Water-soaked rotting at base of stems, yellowing, foul odor, stem collapse.	• Trivikram: 1kg/acre (Soil drenching) • Chaitanya 24: 1kg/acre near pole base
Mealybugs, Ants & Scale Insects	White waxy clusters on stems and flower buds causing flower/fruit drop.	• Yuktava: 2–3 ml/L • Trishakthi: 2–3 ml/L • Pona Bossy / Verti: 2–3 g/L
Root-Knot Nematodes	Root galls, stunting, reduced vine vigor, high root decay under high moisture.	• Nemarazer: 2–3 kg/acre • Sowmyaa: 1 L/acre (Drip/Drenching)

2. STAGE-WISE CROP NUTRITION & SPRAY SCHEDULE

CROP STAGE / TIMING	TIMING / SEASON	PONALAB PRODUCT SOLUTION	APPLICATION RATE & METHOD
Planting / Cutting Treatment	Before Sowing	Trivikram + Ponaplus	Dip cutting bases in solution for 15–20 mins prior to planting.
Soil Prep & Pole Basin Dosing	Basal / Post-Pruning	NPK Consortia, Trivikram, Jeeva Granules	• NPK Consortia: 1–2 kg/acre • Jeeva Granules: 10 kg/acre in basins
Vegetative Branching Phase	Active Flush	Raheel / Bhumiras 22, PMC, Ponaplus	• Raheel / Bhumiras 22: 500 ml/acre • PMC: 2 kg/acre • Ponaplus: 3–5 ml/L
Flower Bud Initiation & Bloom	Pre-Monsoon / Summer	PMC, Pomus17, Powermix	• PMC: 2 kg/acre • Pomus17: 2–3 ml/L • Powermix : 2kg/acre
Fruit Development & Harvest	Multiple Harvest Waves	Powermix, PMC, Pona Potash	• Pona Potash: 5 g/L spray per fruit wave • PMC: 2 kg/acre monthly

3. DRIP & FOLIAR APPLICATION GUIDELINES

POLE BASIN / DRIP DOSING

Raheel 1 Litre / Acre
Interval: Every 20–25 days during active growth & fruit development cycles.

FOLIAR WASH

Every 20 Days
Alternate PMC & Pomus17 to strengthen cladode skin against fungal cankers.

PRE-HARVEST DOSE

Pona Potash @ 5g/L
Spray 12–15 days before fruit picking to increase fruit weight, sweetness & color.

4. KEY BEST PRACTICES FOR HIGH DRAGON FRUIT YIELD

Cultural & Disease Prevention Practices:

- **Stem Canker & Rot Control:** Sunburn and excess moisture weaken cladodes. Apply *Trivikram* (1–2 kg/acre) via drenching and spray *Chaitanya 24* (2 g/L) immediately post-pruning or after rain.
- **Cutting Dip Treatment:** Always treat fresh dragon fruit stem cuttings with *Trivikram* and *Ponaplus* solution prior to planting to prevent basal collar rot.
- **Basin Soil Health:** Apply *Jeeva Granules* @ 10 kg/acre mixed with organic manure in pole rings to boost root anchorage and beneficial microbial population.
- **Flower Bud Retention:** Apply *Pomus17* @ 2–3 ml/L along with Boron during flower bud formation to reduce bud drop and increase fruit conversion rates.
- **Mealybug & Scale Control:** Spray *Yuktava* (2–3 ml/L) or *Pona Bossy* (2 g/L) around flower buds and stem joints to control sap-sucking pests and ant associations.
- **Fruit Weight & Brix Enhancement:** Spray *Pona Potash* @ 5 g/L twice during fruit expansion stage to enhance rind luster, flesh color, sweetness (TSS), and shelf life.

Safety & Tank-Mix Precaution:

Do NOT mix Powermix with high-copper fungicides or harsh chemical pesticides. Always carry out a jar compatibility test prior to tank mixing.

5. CORPORATE CONTACT & SUPPORT DETAILS

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