PONALAB BIOGROWTH PVT LTD

Paddy Crop Management & Disease Protection Schedule (1 Acre)

1. MAJOR DISEASES & PESTS IN PADDY

Disease/Pest Name	Main Symptoms & Field Identification	Recommended Ponalab Product & Dosage
Blast (Leaf & Neck) *(Magnaporthe oryzae)*	Eye-shaped lesions with gray centers on leaf blades; blackening at node/neck base causing chaffy panicles.	• **Trivikram:** 5g/L • **PMC:** 2 kg/acre (Foliar spray) • **Chaitanya 24:** 5 g/L
Sheath Blight & Bacterial Blight *(Rhizoctonia / Xanthomonas)*	Oval, greenish-gray lesions on leaf sheaths near water line; yellow water-soaked stripes along leaf margins.	• **Trivikram:** 1 kg/acre (Soil/Drench) • **Chaitanya :** 1 kg/acre (Foliar spray)
Stem Borer & Leaf Folder *(Scirpophaga / Cnaphalocrocis)*	Dead hearts in young shoots, white ears at panicle stage; longitudinal leaf folding with scraped green tissue.	• **Brutus:** 3 ml/L
Brown Planthopper (BPH) *(Nilaparvata lugens)*	Sap-sucking near soil line/tillers leading to 'hopper burn' (circular patches of dried, brownish crop).	• **Yuktava:** 3 ml/L • **Trishakthi:** 3 ml/L

2. STAGE-WISE CROP NUTRITION & SPRAY SCHEDULE

Crop Stage	Timing / DAT	Ponalab Product Solution	Application Rate & Method
Nursery Bed & Seed Treatment	Sowing & Nursery	Trivikram + Ponaplus	Soak seeds in solution before sowing to control seed-borne infections and boost germination.
Mainfield Prep / Basal	At Transplanting (0 DAT)	Jeeva Granules + NPK Consortia	**Jeeva Granules:** 8 kg/acre. **NPK Consortia:** 1–2 kg/acre during final plowing.
Active Tillering Stage	15–25 Days	Raheel / Bhumiras 22 + Brutus	**Raheel:** 500 ml/acre via water flow. **Brutus:** 3 ml/L for stem borer prevention.
Panicle Initiation (PI)	40–50 Days	PMC + Pomus17 + Powermix	**PMC:** 2 kg/acre for Blast/Blight. **Powermix:** 2 kg/acre for uniform panicle emergence.
Milking & Grain Filling	60–75 Days	Pona Potash + Powermix	**Pona Potash:** 5 g/L spray to minimize unfilled grains and increase grain weight.

3. SPECIFIC APPLICATION GUIDELINES

BPH Lower Canopy Spray
Direct spray towards tiller bases at water level when monitoring BPH populations early in the crop cycle.

Blast & Sheath Blight Protection
Spray PMC preventatively before canopy closure and panicle emergence to safeguard the flag leaf.

Grain Weight & Shine
Foliar spray of Pona Potash during 50% flowering to early dough stage enhances test weight and milling yield.

4. KEY BEST PRACTICES FOR HIGH PADDY YIELD

- **Seed & Nursery Root Dip:** Dip seedling roots in Trivikram and Ponaplus solution for 15–20 minutes prior to transplanting to prevent early soil-borne collar rot and bacterial pathogens.
- **Water Management:** Drain standing water before applying bio-insecticides for Brown Planthopper (BPH) control to target the base of tillers effectively.
- **Flag Leaf Preservation:** Protect the upper two leaves during Panicle Initiation (PI) stage using PMC, as they contribute to over 70% of final grain weight.
- **Balanced Microbial Nutrition:** Incorporate NPK Consortia and Jeeva Granules with basal fertilizer to promote root anchorage, soil porosity, and nutrient uptake efficiency.
- **Safety & Tank-Mix Precaution:** Do not mix biological formulations with strong copper-based fungicides or synthetic organophosphates. Perform a jar compatibility test prior to tank mixing.

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