PONALAB BIOGROWTH PVT LTD

Maize Crop Management & Disease Protection Schedule (1 Acre)

1. MAJOR DISEASES & PESTS IN MAIZE

Disease/Pest Name	Main Symptoms & Field Identification	Recommended Ponalab Product & Dosage
Fall Armyworm (FAW) *(Spodoptera frugiperda)*	Ragged hole feeding on whorl leaves, heavy frass in central whorls, and kernel damage in developing cobs.	• **Heer :** 3 ml/L (Whorl application)
Turcicum Leaf Blight (TLB) *(Exserohilum turcicum)*	Long, elliptical, grayish-green or tan lesions on leaves starting from lower canopy, spreading upwards.	• **Trivikram:** 1 kg/acre (Soil/Foliar) • **Chaitanya 24:** 2 g/L
Charcoal Rot / Stalk Rot *(Macrophomina phaseolina)*	Internal stalk disintegration, black sclerotia inside pith, lodging of plants near maturity, small cobs.	• **Trivikram:** 1 kg/acre (Soil application) • **PMC :** 2 kg/acre (Basal)
Stem Borer & Aphids *(Chilo partellus / Rhopalosiphum)*	Shot-hole symptoms on young leaves, dead hearts in seedlings, and sap-sucking clusters on tassel/cobs.	• **Brutus:** 3 ml/L • **Yuktava:** 3 ml/L (Spray at early vegetative stage)

2. STAGE-WISE CROP NUTRITION & APPLICATION SCHEDULE

Crop Stage	Timing / DAS	Ponalab Product Solution	Application Rate & Method
Seed Treatment & Sowing	At Sowing (0 DAS)	Trivikram + Ponaplus	Treat seeds before sowing to ensure uniform germination and early root rot protection.
Basal Soil Application	Field Prep / Basal	Jeeva Granules + NPK Consortia	**Jeeva Granules:** 8 kg/acre. **NPK Consortia:** 1–2 kg/acre broadcast with FYM.
Early Vegetative (V3–V6)	15–25 Days	Raheel / Bhumiras 22	**Raheel/Bhumiras 22:** 500 ml/acre via fertigation.
Tasseling & Silking (V12–R1)	45–55 Days	PMC + Pomus17 + Powermix	**PMC:** 2 kg/acre foliar for blight. **Powermix:** 2 kg/acre for cob initiation.
Grain Filling (R2–R4)	65–75 Days	Pona Potash + Powermix	**Pona Potash:** 5 g/L spray for bold grain filling, maximum weight, and dry matter content.

3. SPECIFIC APPLICATION GUIDELINES

Fall Armyworm (FAW) Control
Direct Brutus or Yuktava spray straight into the leaf whorls during morning or evening hours at the first sign of window-pane feeding.

Turcicum Blight Wash
Apply PMC preventatively at 25–30 days before tasseling to protect upper canopy leaves crucial for photosynthesis.

Grain Filling & Weight
Foliar spray of Pona Potash during silk stage maximizes cob length, grain setting percentage, and test weight.

4. KEY BEST PRACTICES FOR HIGH MAIZE YIELD

- **Seed Treatment:** Always treat hybrid or composite maize seeds with Trivikram and Ponaplus solution prior to sowing to safeguard seedlings against damping-off and seed-borne pathogens.
- **Whorl Drenching for FAW:** Fall Armyworm larvae hide deep within leaf whorls. Ensure nozzle spray is directed into whorls rather than general leaf surface coverage.
- **Balanced Soil Health:** Incorporate Jeeva Granules with NPK Consortia at sowing to enhance bio-availability of primary nutrients and improve root anchorage against lodging.
- **Water & Stalk Rot Management:** Avoid waterlogging during vegetative growth and maintain adequate soil moisture during silking to reduce charcoal rot susceptibility.
- **Safety & Tank-Mix Precaution:** Do not mix biological insecticides with strong synthetic chemicals or copper-based fungicides. Always perform a jar compatibility test prior to tank mixing.

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