

# **Product Recommendation for Maize crop –** **14.01.2025- VMECOGROW**

## **APPLICATION DETAILS FOR 7 STAGE Plant & Soil Nutrition program**

### **Step 1: Seed Treatment (Boosting Germination & Early Growth)**

Before sowing, maize seeds should be treated to enhance germination, protect against early-stage diseases, and improve nutrient uptake. **Prepare a solution by mixing 25 ml of NBS YIELD BOOSTER and 20 gm of NBS Microshield in 10 L of water.** Dip the seeds in this solution for **20 minutes**, ensuring uniform absorption of beneficial nutrients and microbial protection. After treatment, dry the seeds in the shade before sowing to avoid direct sunlight damage and ensure easy handling.

### **Step 2: Soil Preparation (Strengthening Soil Health & Root Development)**

Healthy soil is the foundation for a strong maize crop. Before sowing, **apply 50 kg of NBS BIO STIMULATOR** mixed with any organic compost. This step enhances soil fertility, microbial activity, and organic matter content, creating an ideal environment for seed germination and root establishment. Proper soil preparation helps in better nutrient retention and aeration.

### **Step 3: Early Growth Phase (15-20 Days After Sowing)**

At this critical stage, young maize plants require additional nutrients to support root expansion and vegetative growth. **Spray NBS YIELD BOOSTER at 1.5 ml/L of water** across the field. This foliar application supplies essential bio-nutrients stimulates chlorophyll production, and improves plant metabolism, ensuring uniform and vigorous early growth.

### **Step 4: Vegetative Growth & Nutrient Boost (45th Day Post-Sowing)**

As the maize plants reach their vegetative peak, they require additional soil nutrition to sustain rapid growth and biomass development. **Broadcast 100 kg of NBS BIO STIMULATOR across the field.** It can be applied alone or mixed with other fertilizers for better efficiency. This application enhances soil microbial activity, improves nutrient availability, and strengthens the root system for better water and nutrient absorption.

### **Step 5: Plant Vitality & Resilience Enhancement**

To maintain optimal plant health and ensure uninterrupted growth, apply a **foliar spray of NBS BUG SHIELD at 1.25 ml/L of water**. This application supports overall plant vigour, strengthens natural defences, and promotes a stress-free growth cycle. For consistent results, it is recommended to repeat the application every **15 days** as a proactive measure.

### **Step 6: Flowering & Grain Setting (Ensuring Maximum Yield Potential)**

For better flower initiation, stronger grain setting, and improved pollination, foliar nutrition is essential. **Apply NBS YIELD BOOSTER at 2 ml/L along with NBS K-35 at 2 ml/L of water**. This spray provides essential potassium and growth stimulators, which enhance reproductive development, leading to well-filled, high-yielding maize cobs. Depending on flowering stages, this application can be repeated for consistent results.

### **Step 7: Plant Strength & Environmental Stress Management**

To support plant resilience and ensure optimal growth, apply **NBS Pseudotech at 200 gm per acre** along with **NBS BUG SHIELD at 2 ml/L of water**. This combination enhances natural defense mechanisms, promotes overall plant health, and maintains crop quality under varying environmental conditions. The application can be repeated as needed, particularly during periods of high moisture or extended wet conditions.