

## **Nitrate Conversion Program – All Crops**

Excessive accumulation of nitrate nitrogen in plant tissues can lead to increased susceptibility to environmental stress, pest infestations, and disease attacks. Converting this excess nitrate into complex amino acids and proteins enhances plant resilience, improves crop quality, and supports balanced growth. This foliar spray aids in efficient nitrogen utilization, ensuring healthier plant development and optimal yield.

### **Objective:**

To convert excess nitrate nitrogen in plant tissues into complex amino acids and proteins, reducing the risk of pest and disease susceptibility while promoting healthier crop growth.

### **Application Guidelines:**

#### **Prepare the Foliar Spray:**

- **Magnesium Sulphate** – 2 kg per acre (Enhances enzyme activation and protein synthesis).
- **Ammonium Molybdate** – 125 g per acre (or Sodium Molybdate: 150 g per acre if unavailable) (Supports nitrogen metabolism and amino acid formation).
- **Fulvic Acid Powder** – 60 g per acre (Improves nutrient absorption and enhances plant metabolism).
- **NBS Maxspreader** – 20 ml per 100 L of water (Ensures better coverage and penetration of nutrients).

### **Method of Application:**

- **Optimal Timing:** Apply this foliar spray after fruit set, as this is a critical stage when excessive vegetative growth can affect fruit quality and overall yield.
- **Uniform Application:** Ensure even spraying across the foliage for maximum absorption and effectiveness.

This nitrate conversion program helps in regulating plant nitrogen levels, leading to improved crop health, reduced stress vulnerability, and better yield potential.