

## Turmeric Plant Probiotics

# Turmeric Plant Probiotics Formulation by NTHRYS

Plant Probiotics Standardized by NTHRYS for Turmeric Cultivation addresses below parameters in order to assist farming community to achieve better profits in Turmeric Cultivation.

1. Increase in rhizome yield and quality.
2. It protects the crop from pests and diseases, such as Rhizome Rot, Leaf Spot, and Shoot Borer.
3. Enhancement in Nutrient Uptake and Metabolic Health.
4. Improving Plant Vigor and Rhizome Size.
5. Increases Leaf Size and Photosynthetic Efficiency.
6. Increases Chlorophyll Content.
7. Increases Soil Enzyme Activity and the Quantity and Biodiversity of Viable Microorganisms.
8. Enhancement in Rhizosphere Activity.
9. Solubilization of Phosphorus.
10. Solubilization of Potassium.
11. Increase Soil Fertility.

NTHRYS Research Team has formulated Turmeric Plant Probiotics Formulation using a battery of Microbial Consortium (> 20 strains) to address all the above Objectives.

NTHRYS Plant Probiotics should not be mistaken as Biofertilizers. They are next generation plant supporting microbiome to support respective farmers to gain good profits with their produce.

### **Application Process :**

#### **Soil Treatment Before crop initiation:**

1. The soil is treated with **formulation**, before initiating Turmeric planting.
2. 3 Lit **offormulationis** mixed with 100 Kg of Farm Yard Manure (FYM) 1 to 2 days before planting per acre.

#### **Rhizome Treatment :**

1. Turmeric rhizomes are treated with **formulation**.
2. The rhizomes are mixed with **formulation** for half an hour before planting. ( 200 ml **offormulation** for 5kg of rhizomes).

#### **Disease Management in Turmeric:**

1. Turmeric suffers from various pests and diseases like Turmeric Leaf Blotch, Root Knot Nematode, and Soft Rot.
2. Spraying **formulation** on the plant as well as at the base would help prevent these diseases and pest infestations.

#### **Probiotic Dosage at Various Growth Phases:**

1. **After Planting:** 500 ml **offormulation**+ 150 lit water + 1.35 kg of Epsom salt one day before spraying per acre. This should be done immediately after planting the rhizomes and before new growth begins.
2. **Vegetative Growth Phase:** 1 lit **offormulation**+ 200 lit water + 1.8 kg of Epsom salt one day before spraying per acre until plants are fully established.
3. **Pre-harvest Phase:** 2 lit **offormulation** added to 300 lit of water + 2.7 kg of Epsom salt one day before spraying per acre a few weeks before harvesting to enhance rhizome development and quality. **formulation** Spraying and **formulation**+ **FYM** mixture ( 3 Lit **offormulationis** mixed with 100 Kg of Farm Yard Manure (FYM) per acre) addition can be done once per every two weeks during active growth periods.

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