

CROP CARE



GREEN AGRI MARKETING
PRIVATE LIMITED



SUGARCANE



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Indus Sugar Mills, Rajanpur



CROP CARE

TRICHODERMA HARZIANUM

Product Overview

Trichoderma harzianum (CROP CARE) is a biocontrol agent which promotes plant growth, development and increases resistance against fungal diseases. The use of Trichoderma has an important role in agricultural production, in light of changing worldwide perspectives by consumers.

Role of Trichoderma Harzianum

The efficacy of this fungus can be attributed to their ability to protect plants, enhance vegetative growth and contain pathogen populations under numerous agricultural conditions, as well as to act as soil amendments/inoculants for improvement of nutrient ability, decomposition and biodegradation. The living fungal spores (active substance) are incorporated in various formulations, both traditional and innovative, for applications as foliar sprays, pre-planting applications to seed or propagation material, post-pruning treatments, incorporation in the soil during seedling/transplant, watering by irrigation (Fertigation) or applied as a root drench or dip.

Trichoderma harzianum Use in Sugarcane Crop

Trichoderma harzianum is a beneficial fungus widely used in sugarcane cultivation as a biocontrol agent and plant growth promoter. It helps in disease management and enhances root development, leading to better crop productivity.

Trichoderma harzianum for Sugarcane Growth Promotion

Trichoderma harzianum is a beneficial fungus that enhances sugarcane growth by promoting root development, improving nutrient absorption, and protecting against diseases. It acts as a biofertilizer and biostimulant, leading to higher yields and healthier plants.





Benefits for Sugarcane Growth

- ✓ **Enhances Root Growth:**
 - Produces growth hormones (auxins, gibberellins) that stimulate root development.
 - Increases root length and biomass, improving water and nutrient uptake.
- ✓ **Improves Nutrient Availability:**
 - Solubilizes phosphorus and other essential nutrients in the soil.
 - Enhances nitrogen fixation and micronutrient absorption.
- ✓ **Boosts Germination and Establishment:**
 - Increases sugarcane set germination rate.
 - Strengthens early seedling growth for better field establishment.
- ✓ **Enhances Resistance to Stress:**
 - Helps plants tolerate drought, salinity, and other environmental stresses.
 - Strengthens sugarcane against pests and diseases.
- ✓ **Promotes Tillering and Cane Development and sugar recovery:**
 - Encourages more tillers and uniform cane growth.
 - Leads to increased yield and sugar content.

Effects of *Trichoderma harzianum* on Sugarcane Crop: Productivity, Yield, and Quality

Trichoderma harzianum is a powerful biofertilizer and biocontrol agent that significantly improves sugarcane growth, productivity, and quality. It enhances root health, nutrient uptake, disease resistance, and overall plant vigor, resulting in better flowering, fruiting (sugar content), and yield.





Use of *Trichoderma harzianum* in Sugarcane for Fungal Disease Control and Prevention

Trichoderma harzianum is a highly effective biocontrol agent that prevents and controls fungal diseases in sugarcane. It acts as a natural fungicide by inhibiting pathogen growth, enhancing plant immunity, and improving soil health.

Major Fungal Diseases in Sugarcane Controlled by *Trichoderma harzianum*

Disease	Pathogen	Symptoms	Role of <i>Trichoderma harzianum</i>
Red Rot	<i>Colletotrichum falcatum</i>	Reddish-brown patches inside canes, wilting	Inhibits fungal growth, strengthens plant defense
Smut	<i>Sporisorium scitamineum</i>	Black whip-like structures on cane tips	Prevents fungal colonization, enhances plant resistance
Wilt	<i>Fusarium sacchari</i>	Yellowing, drying of leaves, stunted growth	Suppresses <i>Fusarium</i> , improves root health
Root Rot	<i>Pythium</i> spp., <i>Rhizoctonia solani</i>	Root decay, poor tillering, plant death	Protects roots, improves soil microflora
Rust	<i>Puccinia kuehnii</i>	Orange/brown pustules on leaves	Boosts plant immunity, reduces disease severity

Trichoderma harzianum is an eco-friendly and sustainable solution for fungal disease management in sugarcane. It protects against red rot, smut, wilt, root rot, and rust, improving plant health and yield. Regular use reduces chemical dependence and enhances long-term soil fertility.





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Treated with Crop Care
(*TRICHODERMA HARZIANUM*)



Control/Non-Treated

**Trials Indus Sugar Mills Rajanpur under the Supervision of
GM (Cane) Mian Yasin Rizwan**

Sowing: September, 2025 Date of Results/Pictures: 08 May, 2026
Product (*Trichoderma harzianum*) Application : February, 2026





Application and Dosage:





- ◆ **Fertigation/Drip Irrigation / Drenching (For Root & Wilt Diseases)**
 - Apply CropCare (Trichoderma suspension (700 gm/200L) per acre through fertigation/drip irrigation at early and mid-growth stages.
 - Enhance Growth and Tillers, controls red root, root rot, wilt, and soil-borne pathogens, more sugar content recovery

Note: Crop Care (Trichoderma harzianum) should be applied alone, no other chemicals or Chemical fertiliser should not mix with the product. Apply after one month if needed.

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