



# EnzyProtect PM

Smart Preservation for  
High-Performance Biogas from Press Mud

## Introduction

Press mud—a carbon-rich byproduct of sugarcane processing is increasingly recognized as a valuable feedstock for Compressed Biogas (CBG) due to its high organic content (cellulose & hemicellulose). Traditionally a disposal concern, it now plays a key role in waste-to-energy and circular economy initiatives.

**Anaerobic digestion** converts press mud into clean, renewable biogas, reducing greenhouse gas emissions and lowering the environmental footprint of sugar mills.

To ensure efficient digestion, maintaining feedstock quality is essential. Proper storage—moisture control, temperature regulation, and use of preservation technologies—is critical to prevent degradation.

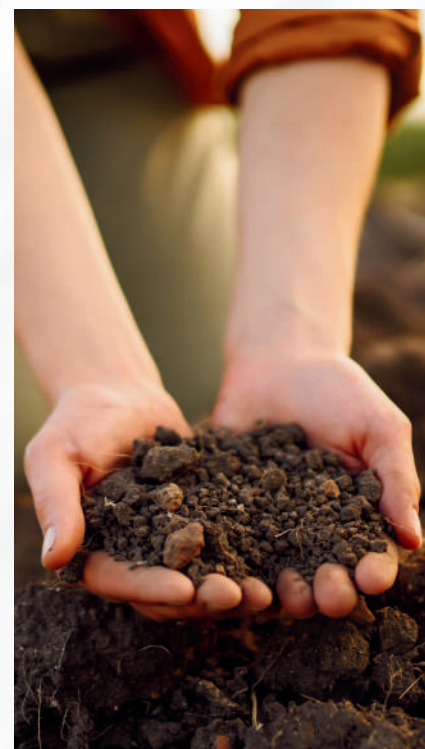
## Storage Challenges

- Nutrient and volatile solids loss during prolonged storage due to microbial activity
- Reduced methane potential, leading to operational inefficiencies and financial loss
- Odor issues affecting surroundings

## Introducing EnzyProtect PM

### An Easy, Effective Solution for Press Mud Preservation

EnzyProtect PM stabilizes press mud for over 150 days, preserving its energy-rich organic matter and methane yield potential. It helps sugar mills and biogas plants store and utilize press mud effectively—even during off-seasons.





## Key Benefits

- Cost-effective management of seasonal press mud
- Prevents composting and carbon loss
- Maintains pH and volatile solids within optimal range
- Enhances anaerobic digestion and methane production
- Ensures year-round availability of quality feedstock

## Application Guidelines

- **Spray Method (preferred):** Dilute and spray on fresh press mud on conveyor belts for even distribution.
- **Manual Mixing:** Spray in the collection area and mix via tilling.
- **Storage:** Cover treated press mud to maintain temperature, prevent sunlight, and minimize oxidation.

## Dosage

- 5.0–10.0 kg per 100 MT of press mud (50–100 ppm)
- **Dilution:** 1 kg in 100–200 liters of water (0.5–1.0%)

## Product Profile

- **Form:** Viscous liquid
- **Appearance:** Colorless
- **Solubility:** Dispersible in water
- **Packaging:** 5.0 to 25.0 kg
- **Shelf Life:** 12 months

## Handling & Safety

- Avoid contact with skin/eyes
- Use in well-ventilated areas
- Store in a cool, dry, covered place
- Follow MSDS guidelines



***With EnzyProtect PM, you're not just preserving press mud—you're maximizing CBG plant performance and profitability.***

**The Catalysts Group :** Catalysts Bio-Technologies Pvt. Ltd. | Naturegen Biotechnologies LLP  
**Corporate Office :** 240, Functional Industrial Estate, Patparganj, Delhi - 110092, India  
**Ph:** +91 11 49867313 / 49867314 | **Mob:** 9582963000 | **Email:** dm@thecatalystsgroup.com

