

MicrobialX Compost

Converts Bio-Degradable Waste into Compost in just 21 Days

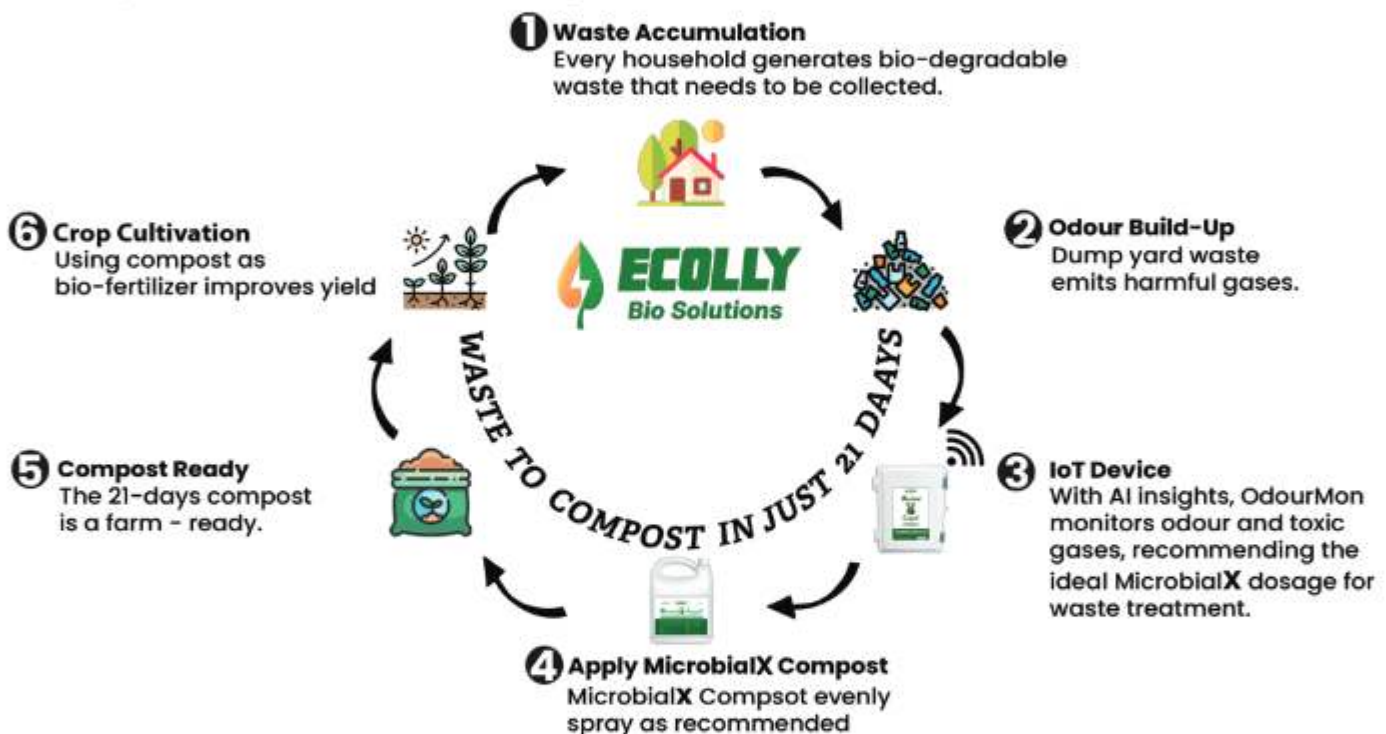
The Challenge

Over 70% of India's household waste is bio-degradable, yet much of it is landfilled. This causes methane emissions, pollution, and nutrient loss.

The Solution

MicrobialX Compost – Natural Microbial Treatment for Waste

- ✓ Reduces odours and harmful gases within 3-4 days.
- ✓ Converts organic waste into compost in just 21 days.
- ✓ Accelerates decomposition, minimizing landfill waste accumulation.
- ✓ Enhances thermophilic pathogen reduction, producing high nutrient-rich compost as bio-fertilizer for agriculture.



Key Offerings

- **OdourMon** IoT monitoring device to recommend the dosage.
- **MicrobialX Compost – Natural Microbial Treatment** Accelerates waste decomposition into nutrient-rich, odour-free compost in just 21 days.
- **Digital Awareness – Community Engagement** Smarter monitoring cleaner waste, healthier environment.

How It Works

1. **Identify** – IoT sensors detect harmful emissions and problem areas.
2. **Apply** – Deploy Ecolly MicrobialX compost to accelerate decomposition.
3. **Monitor** – Track data via dashboards for real-time insights.
4. **Refine & Scale** – Adjust solutions for maximum efficiency.

Application Areas

- Garbage dumping grounds
- Residential Communities
- Dairy farms (Dung)
- Food processing industries

OdourMon Monitoring Parameters

- Temperature ($^{\circ}\text{C}$), Humidity (RH),
- Ammonia (NH_3), Methane (CH_4), Oxygen (O_2)
- Carbon monoxide (CO), Carbon Dioxide (CO_2)
- Hydrogen (H_2), Hydrogen sulphide (H_2S)
- Nitrogen dioxide (NO_2), Ethanol ($\text{C}_2\text{H}_5\text{OH}$)