

ODOR CONTROL IN DIFFERENT INDUSTRIES



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About Us.

Biotic Organic Solutions is dedicated to eliminating the use of toxic and harmful chemicals from various processes. The company envisions a greener, safer, and healthier world for present and future generations by improving sustainability standards across diverse sectors. Its mission is to develop cost-effective, high performance, and sustainable technologies for industries, institutions and for various other domains. By offering eco-friendly, value-added solutions, Biotic Organic Solutions aims to drive long-term environmental impact and well-being.



Understanding NZYME - OC & its Wide Importance

ABOUT NZYME OC (ODOR CONTROL)

NZYME-OC is a multi-enzyme formulation and 5th generation disinfectant developed by Biotic Organic Solution LLP. It is designed to enhance the biodegradation process of decaying organic material, effectively eliminating foul odours at the source. In addition to breaking down odour-causing compounds, it controls the microbial load to prevent further decay, ensuring long-lasting odour suppression. Its environmentally friendly composition makes it

BENEFITS

- Effective and efficient control of foul odour.
- Minimal training required for application.
- Creates a clean and healthy environment for employees.
- Safeguards against non-conformities during audits.
- Completely environmentally friendly and safe to use.



INDUSTRIES SERVED

- Poultry Farms
- Dairy Farms
- Pig Farms
- Meat & Seafood Processing Units
- Slaughterhouses & Abattoirs
- Food Processing Plants
- Municipal Solid Waste Facilities
- Composting Facilities
- Sewage & Wastewater Treatment Plants
- Hotels & Commercial Kitchens
- Fisheries & Fish Markets



How NZYME-OC Can Effectively Solve Odour Issues at various Industries

A variety of industries naturally produce strong odors due to the accumulation of manure, urine, spilled feed, feathers, and bedding materials, etc. Over time, these organic materials break down, releasing gases such as ammonia (NH₃), hydrogen sulfide (H₂S), and volatile fatty acids. These gases are not only unpleasant but can cause respiratory stress for birds and workers, attract pests, and lead to complaints from nearby communities. NZYME-OC targets the root cause of odour instead of just masking it, using a scientific approach to accelerate organic matter breakdown, control harmful microbes, and create a cleaner, healthier environment.

RAPID BREAKDOWN OF ORGANIC WASTE

- NZYME-OC contains a specialized multi-enzyme formulation that accelerates the biodegradation of complex organic matter (proteins, fats, carbohydrates, cellulose) present in poultry litter and manure.
- This rapid breakdown reduces the time waste spends decomposing anaerobically, preventing the build-up of odorous gases.
- By enhancing aerobic degradation, it minimizes the conditions that lead to foul smells.

MICROBIAL LOAD REDUCTION & PATHOGEN SUPPRESSION

- As a 5th generation disinfectant, NZYME-OC actively reduces populations of odour-causing bacteria (e.g., Clostridium, Proteus, E. coli) and prevents their regrowth.
- The product inhibits harmful microbial activity while allowing beneficial microbial processes to dominate, ensuring long-term odour control.





AMMONIA & HYDROGEN SULFIDE NEUTRALIZATION

- The enzymes in NZYME-OC help convert ammonia into non-volatile compounds and break down sulfur-containing molecules before they release hydrogen sulfide gas.
- This not only reduces smell but also improves air quality inside poultry sheds, reducing respiratory irritation for both birds and workers.

PREVENTION OF FURTHER DECAY

- Unlike chemical deodorizers that only cover smells temporarily, NZYME-OC stops odour at the source by halting further microbial decomposition of manure and litter.
- Once applied, it creates an ongoing protective effect, keeping odour levels low for extended periods

ECO-FRIENDLY & ANIMAL-SAFE SOLUTION

- NZYME-OC is completely non-toxic, biodegradable, and safe for use around live poultry.
- It leaves no harmful residues in litter or the surrounding environment, making it compatible with organic farming practices and environmentally conscious operations.

SIMPLE & FLEXIBLE APPLICATION

- NZYME-OC can be applied as a spray over litter, manure pits, drainage areas, and walkways.
- Minimal training is needed for farm workers to implement the treatment effectively.
- Dosing can be adjusted based on waste load, temperature, and farm size to achieve optimal results.

ENHANCED WORKER COMFORT & WELFARE

- By reducing odour at the source, NZYME-OC creates a fresher, healthier working environment, improving worker satisfaction and productivity.
- Better air quality also benefits poultry, lowering stress levels and contributing to improved feed intake and growth rates.

REGULATORY & COMMUNITY BENEFITS

- Persistent odour issues often lead to neighbour complaints and potential inspection by environmental regulators.
- Regular use of NZYME-OC helps maintain compliance with environmental standards and strengthens the farm's reputation within the local community





THANK YOU!

Continued research and development will further optimize enzyme technologies, leading to a more sustainable and efficient odor control process.



"Creating Culture for a greener environment"

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