

Ecolly Bio Solutions

MicrobialX Purifier

Product Overview

1. Challenge

Untreated wastewater from sewage treatment plants, aquaculture systems, Panchayat and Municipality utility ponds, uneaten feed, fish waste, algae, and other biodegradable pollutants. Poor biological activity results in foul odours, sludge accumulation, reduced dissolved oxygen, deteriorating water quality, and ecosystem imbalance. Conventional treatment methods may require intensive maintenance and chemical intervention. Effective biological treatment with beneficial microorganisms helps restore water quality, reduce sludge, and maintain a healthy aquatic ecosystem.

2. Product Overview

Microbial X – Purifier is a bio-based microbial formulation developed by Ecolly Bio Solutions to biologically improve water quality in sewage treatment plants (STPs), aquaculture ponds, utility ponds, ornamental water bodies, and other wastewater systems. It contains a consortium of beneficial microorganisms that naturally degrade accumulated organic matter, reduce sludge formation, minimize unpleasant odours, and improve overall biological water quality. Under recommended operating conditions, the product supports biological stabilization and restores healthier aquatic environments within approximately **28 days**.

3. Objective

The product is designed to biologically improve water quality, accelerate the degradation of accumulated organic matter, reduce sludge and unpleasant odours, enhance beneficial microbial activity, improve aquatic ecosystem health, and support sustainable wastewater and aquaculture management.

4. Key Benefits / Outcomes

- Improves water quality naturally
- Reduces organic sludge accumulation
- Restores water quality in about **28 days**
- Reduces unpleasant odours
- Enhances beneficial microbial activity
- Supports healthier aquatic ecosystems
- Eco-friendly, non-toxic, and biodegradable solution

5. Applications / Use Cases

Sewage Treatment Plants (STPs),
Aqua ponds,
Panchayat and Municipality utility ponds,

6. How It Works

After application, beneficial microorganisms colonize the water body and begin decomposing accumulated organic matter, sludge, uneaten feed, fish waste, algae, and other biodegradable pollutants. Their biological activity improves the natural purification process, enhances nutrient cycling, reduces sludge accumulation, suppresses unpleasant odours, and gradually restores biological balance and water quality.

7. Directions for Use

Typical dosage should be determined according to the water body volume and organic loading conditions.

General application guidelines:

- Dilute the recommended quantity of **Microbial X – Purifier** with water.
- Apply uniformly across the treatment area.
- Continue routine monitoring of water quality throughout the treatment period.

8. Available Quantities / Packaging

- 1 Ltr
- 5 Ltr
- 30 Ltr

9. Technical Specifications

Appearance: Light Green Liquid

Odour: Mild Fermented

Shelf Life: 06 Months

Storage: Cool and dry place below 35°C

Application: Direct Water Application

Solubility: Completely Water Soluble

10. Safety & Handling

Avoid contact with eyes. Wash hands after handling. Keep away from direct sunlight and freezing conditions. Store the product in its original sealed container. Avoid mixing with strong disinfectants during application.

11. Expected Results

1. Microbial activation and biological stabilization.
2. Reduction in sludge accumulation and unpleasant odours.
3. Improved biological activity and enhanced water clarity.
4. Restored water quality with a healthier aquatic ecosystem.

12. Before & After Examples

Before: Sludge accumulation, foul odour, poor water clarity, and unhealthy aquatic conditions.

After: Cleaner water, reduced sludge, improved biological balance, better water clarity, and a healthier aquatic ecosystem.

13. Support & Contact Information

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