

BACKGROUND

We at Ecological Concepts Pvt. Ltd. are application integrator for Bio-Oxygenation, Restoration & Rejuvenation of Water Bodies Like Drains, Ponds, Lakes & Rivers. We work as a value added executor of innovative Ecological Technologies. We use Bio Nutrient Technology for the Water Treatment; it contains the major micronutrients required for accelerating Phytoplankton growth. An advanced bioremediation solution; Dissolved Oxygen levels increase and pollutants are decomposed, thereby cleaning the polluted water. Simply add Bio Nutrient Solution to contaminated water.



CURRENT PROBLEMS

Many fresh water lakes and ponds have a significant population of suspended Blue & Green algae (BGA) in the water bodies. This gives the water a Greenish appearance. High concentration of algae leads to depletion of the dissolved oxygen of water causing anaerobic conditions in the water bodies. This results in death of aquatic population, besides an unpleasant odor.



There is no substitute for water and no alternative. We need it. And We need to sustain it. We provide a sustainable innovative Eco SOLUTION inspired by nature to treat Lakes Ponds Rivers and Waste Water

OUR SOLUTION

With many years of R & D An Accelerated Bio-Oxygenation solution to treat polluted water bodies has been developed. **It Helps..**

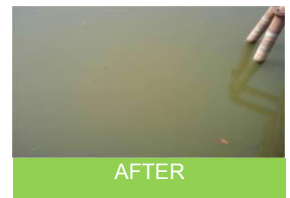
1. To Promotes growth of Phytoplankton, A special kind of Microbes.
2. Phytoplankton produce food from sunlight by Photosynthesis
3. Phytoplankton's produce more than 50% of food in the marine food chain.
4. Encourages bacteria to grow and consume pollutants present in water
5. CO₂ consumed & produces O₂, increases DO

RESULTS

A large algal bloom in a Lake in India with 6 acres spread and average depth of 1 meter, approx 225 million liters of water was treated with Bio-Nutrient Technology.



BEFORE



AFTER

- | | |
|--------------------------|---------------------------|
| ▪ Blue Green Algae - Yes | ▪ Blue Green Algae - No |
| ▪ pH: 9.8 | ▪ pH: 8.5 |
| ▪ DO: 3mg / Litre | ▪ DO: 8.5mg / Litre |
| ▪ Insects: large amounts | ▪ Insects: limited amount |

After applying Bio Nutrient, within **3** days the Toxic Algal bloom was controlled.

Generally product application rate is 1-2 liter per acre per week for 4-6 weeks depending on condition.



Bio Nutrient TECHNOLOGY

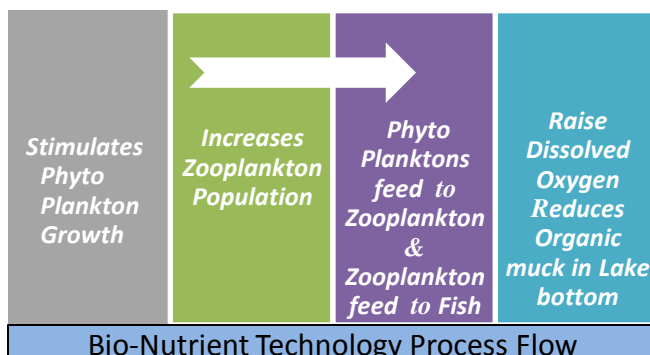
By introducing an appropriate quantity of the Mix (1-2 L of Bio Nutrient/4 million liters of water) in the polluted region of the water body, heavily polluted lakes and ponds can be cleaned in a natural way. Bubbles appear on the water surface within a few minutes. Phytoplankton's are microscopic food power cells that convert Carbon Dioxide, Nitrogen and Phosphorus into Dissolved Oxygen and oxygen rich organic compounds and zooplankton which results in a healthy ecosystem, and ultimately a thriving fish population. They play a dynamic role in nutrient conversion and regulation of ecosystems.

LAKES, PONDS AND RIVERS

- ✓ Stimulates, regulates, and sustains continual Phytoplankton growth
- ✓ CO₂ consumed & produces O₂, increases DO
- ✓ Results, healthy ecosystem & fish population
- ✓ Reduces harmful blue green algae and filamentous algae

SEWAGE WASTE WATER

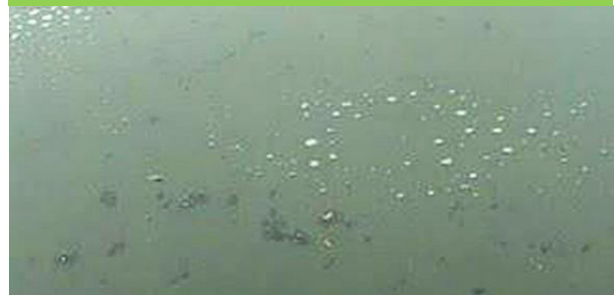
- ✓ Reduce aeration and capital costs
- ✓ Reduce chemicals and suppress foul odor



APPLICATIONS



AFTER 15 MIN



AFTER 2 HOURS



AFTER 10 DAYS

Lake treatment with Bio Nutrient Oxygen Rich bubbles continue to appear after 10 days, and Water body is much cleaner.

CONTACT

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