Nualgi

Sustainable Solution ☺ to Pollution ☹

Problems

Sewage Treatment, Lake and River Remediation,
Sanitation and prevention of water borne diseases,
Food availability – declining fish yield and scarcity of land,
Harmful Algal Blooms, Red Tides, Mass fish kills,
Dead Zones in Oceans, Ocean Acidification, Global Warming,
Fuel for vehicles.

The Solution

Diatom Algae

- Absorb Carbon dioxide
- Release Oxygen – are responsible for 25% of oxygen in Atmosphere.
- Are good food for fish – account for about 50% of primary production in oceans.

What is Nualgi?

Nualgi contains micronutrients required by Diatom Algae in nano size. 20 nano meters to 150 nano meters.
It contains Si, Fe, Mn, Ca, Mg, Zn, Cu, B, S, Mo, etc.

How does it work?

Nualgi causes a bloom of Diatom Algae in any type of water – freshwater or saline water. Water has most of the nutrients required by Diatom Algae to grow but lacks micronutrients and silica.
Nualgi provides these micro nutrients and silica.

Why Diatom Algae?

Diatoms have a silica body, unlike other algae such as Green Algae and Blue Green Algae which have cellulose bodies.

Diatoms are consumed by zooplankton and these by fishes, unlike Green and Blue Green Algae which die in the water and decompose and thereby release CO_2 back into the atmosphere when they decompose.

The Silica shells of the Diatoms too do not decompose, millions of tons of fossilized Diatomaceous Earth from various points of time is available all over Earth and is used in many products like toothpaste, water filters, pet food, as a pesticide in granaries, cosmetics like Multani Mitti, Dynamite, etc.

Oxygen

1 kg of Nualgi results in release of at least 100 kgs of Oxygen.

Carbon dioxide

1 kg of Nualgi results in absorption of at least 137 kgs of Carbon dioxide.

Methane

Methane is emitted in Sewage Treatment Plants, Septic Tanks, polluted lakes, flooded paddy fields, etc.
Diatoms increase the Dissolved Oxygen level of water in every nook and corner of the tanks and thereby convert Anaerobic conditions to Aerobic conditions.
This will reduce Methane emissions.

Food for Fish

Diatoms and Zooplankton provide most of the food required by fish in aquaculture ponds, lakes, rivers and oceans and fish are a good source of protein for humans.

Economics

1 kg of Nualgi is to be used in about 1 million to 4 million litres of water.

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