



**BREAKTHROUGH TECHNOLOGY FOR IMPROVING SOIL FERTILITY IN
100 DAYS THROUGH BIOLOGICAL TREATMENT**



About Soil Fertility Institute

We, Soil Fertility Institute (SFI) are a Pune based organization. We have successfully developed SFI soil conditioner which improves soil organic carbon in 100 days. SFI soil conditioner is based on soil biodiversity, sun energy and ancient agricultural / soil conditioning techniques. It improves physical, biological and chemical properties of soil in very short time. The aim of developing this has been to target the improvement of soil and not just focus on enhanced yield of crop.

We at SFI have clearly understood the root cause and therefore focused our energy and efforts on improving the soil condition, that too using traditional methods.

- Excess use of Chemical Fertilizers and Pesticides
- Soil has become hard and Viscous
- Over Irrigation & water hardness
- Imbalanced Nutrition of SOIL
- Increase of pH in soil



- High Salinity in the Soil
- Water drainage problem
- Depletion of Ground water Levels
- Decreased Porosity of soil
- Low Productivity of CROPS
- Decrease in Organic carbon of the soil

How to improve the fertility of the soil?

Organic Carbon & Its Importance

Soil organic carbon is a measurable component of soil organic matter. Soil organic carbon (SOC) is a major contributor to overall soil health, agriculture, climate change, and food solutions.

- It is a natural energy storage, derived from soil organic matter and considered a highly valued earth's biopolymer.
- SOC improves soil biological, chemical, and physical properties, water- holding capacity, and structural stability. It plays an integral part to the formation of soil's organic acids key to soil minerals dissolutions and availability to plants and nutrient leaching.

Importance of Microbes for Nutrients:

The microbial biomass consists of mostly bacteria and fungi which decompose crop residue and organic matter in soil. This process releases nutrient into the soil that are available for plant uptake. When microorganisms die these nutrients are released in the forms that can be taken up by plants.

The microbial cell is made up of several elements such as Carbon, Hydrogen, Oxygen, Nitrogen, Sulfur, Phosphorus, Potassium, Calcium, Magnesium and iron.



SFI-TECHNOLOGY/PRODUCT

SFI soil conditioner is based on soil biodiversity, sun energy and ancient agricultural soil conditioning techniques like use of jaggery, high bacterial count & diverse microbes. It improves physical, biological and chemical properties of soil in very short time. SFI soil conditioner is a next generation liquid solution which improves physical, biological and chemical properties of soil in very short time. Diversified microbes which are soil friendly and useful to crop are inoculated together and sufficient quantity of nutrients is added for development and multiplication of microbes.



BENEFITS OF SFI SOIL CONDITIONER:

- Increases the soil fertility
- Increases porosity of the soil
- Increases water retention capacity of the soil
- Increases uptake of water & nutrients to the crop
- Increases ORGANIC CARBON of the soil in 100 days
- Increases productivity as well as the quality of the crops
- Reduces toxic elements and the salinity of the soil
- Creates habitable conditions for EARTHWORMS
- Balances soil pH and maintains soil EC

Application of SFI soil conditioner in ORGANIC FARMING:

1. 1 liter of SFI soil conditioner is to be poured in 200 liters clean drum/barrel/tank.
2. 10/20kg jaggery/syrup is to be added to it. Fill the drum with water.
3. Cover and keep it for 5 days.
4. The solution is ready and it should be used for 1 acre land only during flood/drip irrigation.
5. During application of SFI soil conditioner, more water is required than regular.
6. 10 ml solution per liter of water should be used for spraying.

SFI soil conditioner is highly recommended in organic farming as large amount of organic material is already available in soil. Visible development in crop and soil are seen within 2 weeks after application of SFI soil conditioner in organic farming. There are enhancements in yield, weight, size, color, glaze, smell, shelf life etc. and overall quality/quantity of organic agriculture produce.

The Indian Institute of Toxicology conducted tests on SFI soil conditioner and reached a conclusive finding that it is non-toxic. This evaluation assures users of its safety and environmental friendliness. With this certification, SFI soil conditioner can be confidently used in various agricultural applications. Farmers can now benefit from its positive effects on soil without concerns about harmful effects.



SFI

SOIL FERTILITY INSTITUTE

"We make Farmers DELIGHTFUL"

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