

# SANJEEVINI FOR AGRICULTURAL SUSTAINABILITY

A Report submitted to mid-term evaluation for KSCST Projects

**INTRODUCTION:** organic fertilizers as a sustainable solution for agricultural practices. In recent years, there has been a growing concern about the negative environmental impacts associated with conventional chemical fertilizers. The excessive use of synthetic fertilizers contributes to soil degradation, water pollution, and greenhouse gas emissions. By advocating for organic fertilizers, we strive to enhance soil fertility, protect ecosystems, and ensure a sustainable future for agriculture.

## OBJECTIVES:

- **Enhancing soil fertility:** Sanjeevini aims to improve soil health by replenishing essential nutrients and promoting microbial activity.
- **Sustainable agriculture:** It supports eco-friendly farming practices by reducing reliance on synthetic chemicals and promoting natural nutrient cycles.
- **Increasing crop yield:** By providing organic nutrients and fostering a healthy soil ecosystem, Sanjeevini helps in improving crop productivity over time.

## SCOPE:

Sanjeevini organic fertilizers have a promising scope in agriculture due to their eco-friendly nature and effectiveness in improving soil health and crop yield. With the growing demand for sustainable farming practices, there's increasing interest in organic fertilizers like Sanjeevini. Additionally, they contribute to soil fertility, enhance nutrient uptake by plants, and promote overall ecosystem balance.

**Enhances quality of the Soil:** It act as an agent to increase the microbial count and friendly bacteria in the soil. As the preparation time is only 4-5 days, it can be used effectively and frequently .Usage of Sanjeevini helps to increase the earthwomm count which further leads to a very porous quality soil with a higher water holding capacity improves aeration brings up minerals from deep in the subsurface that are often in short supply in surface layers.

- **Cost effective Solution:** Sanjeevini can be prepared using the natural resources which are easily available for a famer in his farming land. Addition of siridhanya powder may add a little cost.



- Sustainable Agriculture: Sanjeevini fertilizers promote sustainable farming practices by utilizing organic materials that are environmentally friendly and contribute to soil health.
- Soil Enrichment: These fertilizers enrich the soil with essential nutrients, microorganisms, and organic matter, fostering better crop growth and yield.

### METHODOLOGY:

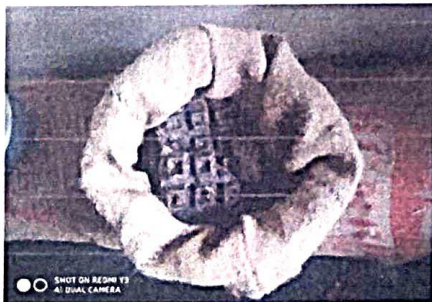
Sanjeevini is organic soil fertilizer and plant growth booster. It is rich in micro-organisms that help to improve soil fertility and productivity of the crops. Sanjeevini is a type of organic fertilizer made by using cow dung, cow urine, jaggery, Navadhanya and neem leaves. Here's a basic methodology: SANJEEVINI HOME MADE FERTILIZERS



NAVADHANYA MIX



DESI COW URINE



JAGGERY



DESI COW DUNG



NEEM LEAVES

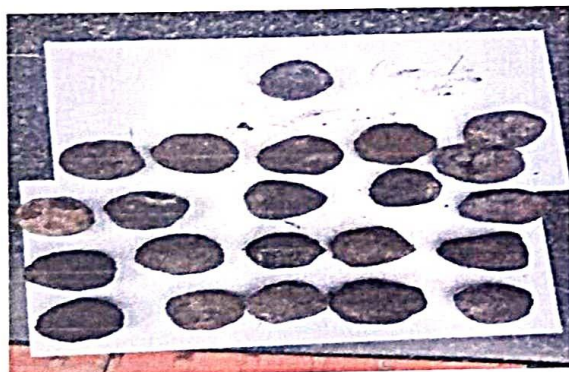


Compost: Compost is created by decomposing organic materials such as food scraps, yard waste, and animal manure. It enriches the soil with nutrients and improves its structure.

Manure: Animal manure, such as cow, horse, or poultry manure, is a valuable organic fertilizer rich in nutrients like nitrogen, phosphorus, and potassium. Bone Meal: Made from ground animal bones, bone meal is a slow-release fertilizer that is high in phosphorus and calcium. It benefits flowering and fruiting plants. Seaweed and Kelp: Seaweed and kelp-based fertilizers are rich in micronutrients, growth hormones, and natural bio-stimulants. They enhance plant growth and improve resistance to stress.



**Sanjeevini ingredients**



**FINANL OUTPUT**



**SANJEEVINI TEAM**

### **SANJEEVINI – USAGE & BENEFITS**

Liquid Sanjeevini can be directly applied to the soil. For young plants and seedlings, it is better to dilute sanjeevini with irrigation water before using it. Feed the plants with sanjeevini solution once a month to enrich the soil and boost plant growth.

The beneficial microorganisms in Sanjeevini help in mineralization of soil nutrients and make the nutrients available to plants when applied to the soil.

The fertilizer should be applied 2–3 inches to the side of, and 1–2 inches below, the seed level or plant row. Avoid applying fertilizer when foliage is wet, and water after applying it to remove particles from foliage. The use of cow dung in agriculture is essential to maintain



soil quality. Cow dung helps increase the population of earthworms, and also promotes and manages fertile soil with the presence of *Eisenia andrei* species of earthworm, showing an enhancement in the nitrification process

### OUTCOME OF THE PROJECT:

- **Increased Crop Yield:** Jeevamrutha organic fertilizers are known to improve soil fertility and promote healthy plant growth, potentially leading to increased crop yields compared to conventional fertilizers.
- **Soil Health Improvement:** Through the use of sanjeevini, the project aims to enhance soil health by increasing microbial activity, nutrient availability, and overall soil structure, which can support sustainable agriculture practices.
- **Cost Savings for Farmers:** By utilizing organic fertilizers like sanjeevini, farmers may reduce their dependency on chemical fertilizers, leading to cost savings over time. This could positively impact the economic viability of farming operations.
- **Environmental Benefits:** Organic fertilizers are less likely to leach harmful chemicals into waterways or contribute to soil degradation, thus potentially reducing environmental pollution and preserving ecosystem health.

### Suggestions on how to use Sanjeevini for a better output

- Apply sanjeevini once every 25 days for best results.
- Use the prepared sanjeevini within 10 days of preparation to ensure the microbial activity is at its peak.
- Regular application improves soil fertility, enhances microbial activity, and supports plant health and growth.
- It can be used alongside other organic practices like mulching and green manuring for holistic soil management.

### CONCLUSION:

Sanjeevini can gain popularity among organic farmers bfor its potential benefits, it is important to note that the effectiveness and impact of any agricultural product can vary depending on factors such as soil type, crop type, climate, and application methods.

As it is cost effective and easy to prepare with lot of benefits to farmers in promoting agricultural sustainability, our aim is to reach these farmers and make them aware of Sanjeevini to bring sustainable agricultural practices.

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Signature of the Guide

4 CONCLUSION: | (RIT, MBA Dept, Hassan)

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