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Review Article

JEEVAMRUT A Natural Growth Booster for Plant

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ABSTRACT

In the realm of agriculture and gardening, the quest for sustainable and eco-friendly solutions to enhance plant growth and health has led to the rediscovery of traditional practices. One such practice gaining traction is the use of Jeevamrut, a natural growth booster for plants with its roots deep in Indian agricultural heritage. Derived from ancient wisdom and adapted to modern agricultural needs, Jeevamrut offers a holistic approach to plant nutrition and soil health. This article aims to explore the concept of Jeevamrut, its composition, benefits, and application in contemporary farming practices.

Keywords: *Jeevamrut, Agriculture, Yield, Growth*

INTRODUCTION

Jeevamrut is a natural growth booster for plants derived from traditional Indian agricultural practices. It is a bio-fertilizer and soil conditioner that harnesses the power of beneficial microorganisms to enhance plant growth and soil fertility. At its core, Jeevamrut consists of a mixture of cow dung, cow urine, jaggery, gram flour, and water. These ingredients are fermented together in a specific ratio to promote the growth of beneficial microorganisms such as bacteria, fungi, and actinomycetes. One of the key components of Jeevamrut is cow dung, which is rich in essential nutrients and microorganisms necessary for plant growth. Cow urine acts as a natural pesticide and fungicide, protecting plants from harmful pests and diseases. Jaggery provides a source of energy for microorganisms, while gram flour serves as a substrate for their growth (Bhattacharyya *et al*., 2020). The fermentation process allows these ingredients to break down and release nutrients in a form that is readily available to plants. As a result, Jeevamrut enhances soil fertility, improves nutrient uptake by plants, and promotes overall plant growth and development. Furthermore, the microorganisms present in Jeevamrut form symbiotic relationships with plant roots, facilitating nutrient absorption and enhancing plant resilience to environmental stressors such as drought and disease.

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This not only leads to healthier plants but also increases their yield and quality. Another advantage of Jeevamrut is its sustainability and environmental friendliness. It is made from locally available organic materials and does not contain any harmful chemicals or synthetic (Timsina, 2018).

Jeevamrut

Jeevamrut, derived from the Sanskrit words 'Jeeva' meaning living and 'Amrut' meaning nectar, is essentially a fermented microbial culture enriched with nutrients. It is crafted from locally available organic materials, making it a cost-effective and sustainable alternative to chemical fertilizers. The core principle behind Jeevamrut lies in harnessing the power of beneficial microorganisms to promote soil fertility and plant growth.

Composition of Jeevamrut

The composition of Jeevamrut can vary slightly based on regional preferences and availability of materials. However, the basic ingredients typically include cow dung, cow urine, jaggery or molasses, gram flour, soil, and water. These ingredients are carefully mixed in specific proportions to create an ideal environment for microbial proliferation and fermentation.

Benefits of Jeevamrut

Soil Enrichment: Jeevamrut acts as a potent soil conditioner, enriching the soil with beneficial microorganisms, organic matter, and essential nutrients. This leads to improved soil structure, water retention, and nutrient availability, fostering a conducive environment for plant growth.

Enhanced Plant Nutrition: The diverse microbial community present in Jeevamrut facilitates nutrient cycling, making vital nutrients more accessible to plants. This results in enhanced nutrient uptake, leading to healthier and more resilient plants.

Pest and Disease Resistance: Regular application of Jeevamrut strengthens the plant's natural defense mechanisms, making them more resistant to pests and diseases. The balanced microbial ecosystem created in the soil suppresses harmful pathogens, reducing the need for chemical pesticides.

Sustainable Farming Practice: Jeevamrut promotes sustainability by reducing reliance on synthetic fertilizers and pesticides, which can have detrimental effects on soil health and the environment. By harnessing natural processes, farmers can cultivate healthier crops while minimizing their ecological footprint.

Application of Jeevamrut:

The application of Jeevamrut can vary depending on the crop type, soil condition, and stage of growth. It is typically applied as a soil drench or foliar spray during the growing season. Diluted Jeevamrut can also be used for seed treatment to enhance germination and seedling vigor. Regular application at recommended intervals ensures sustained benefits for plants and soil.

CONCLUSION

Jeevamrut represents a harmonious blend of ancient wisdom and modern agricultural practices, offering a natural and sustainable solution for promoting plant growth and soil health. As the demand for organic produce and environmentally friendly farming practices continues to rise, the resurgence of Jeevamrut highlights the importance of harnessing nature's wisdom to meet the challenges of contemporary agriculture. By embracing this traditional knowledge, farmers can cultivate healthier crops, regenerate soil fertility, and contribute to a more resilient and sustainable food system.

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