



e-Magazine for Agriculture and Allied Sciences

http://www.ecofarming.rdagriculture.in e-ISSN: 2583-0791



# **JEEVAMRUT**

# **A Natural Growth Booster for Plants**

# 1. Ashish Kumar

Department of Soil Science & Agricultural Chemistry, Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya-Uttar Pradesh Email: ashishkumar.2262000@gmail.com

# 2. Robin Kumar

Department of Soil Science & Agricultural Chemistry, Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya-Uttar Pradesh

# 3. Praveen Kumar Kanaujiya Department of Soil Science & Agricultural Chemistry, Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya-Uttar Pradesh

4. Vimal Kumar Department of Soil Science & Agricultural Chemistry, Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya-Uttar Pradesh

Received: November, 2023; Accepted: November, 2023; Published: January, 2024



# Abstract

Jeevamrut is a liquid organic manure that includes macro and micronutrients required by crops and is a rich source of natural carbon and biomass. Jeevamrut has shown to be more effective than other types of manures and may be utilized together with other manures. Such fertilizers are cheap, ecologically sound bio-inoculants with a high potential for increasing agricultural

# Introduction

Jeevamrut is completely organic and has no negative impact on soil health. It consists of the terms "Jeevan" and "Amrit." The first word is Jeevan, which means "Life," and the second term is "Amrit", which means "Medicinal potion." Jeevamrut is an unique Indian bio-pesticide and organic manure produced through a unique fermentation procedure that combines cow dung, urine, jaggery, pulse flour, soil, and water. It is regarded as a great source of natural carbon, biomass, nitrogen, phosphorus, potassium, and other necessary micronutrients for

#### Ingredients required for the preparation of Jeevamrut

Take a barrel containing 200 L of water. Add water to 10 kg of local cow dung and 5-10 litres of cow urine (Goumutra). In a barrel, add 2 kg jaggery (Gud), 2 kg pulse flour, and add a small amount of farm soil.

### **Nutrient Composition of Jeevamrut**

Jeevamrut is naturally acidic (4.93 p<sup>H</sup>) and an excellent source of macro and micro

# **Application Method**

Jeevamrut's finished product may be given directly to the plant's root region in the soil. It might also be combined with water in a 1:10 ratio and sprayed over crops to be used for foliar application. Jeevamrut is available in two forms: solid and liquid. The solid form is commonly referred to as "Ghanjeevamrutam." The components of both forms, liquid and solid, are practically identical. productivity in a sustainable manner. It can help to prevent the overuse of chemical fertilizers in the soil, which causes low soil fertility. Jeevamrut contains helpful bacteria that contribute to soil fertility. It transforms normal soil into rich, nutritious soil, allowing plants to develop quicker and generate more crop yields.

crops. Jeevamrut is not only inexpensive, but it is also helpful to plants and soil. It is especially advantageous for farmers who spend a lot of money on artificial fertilisers and pesticides. They may save money by using this incredible plant fertiliser. As a result, Jeevamrut is a better substitute to chemical fertilizer. Jeevamrut is entirely natural. As a result, it may be utilized in organic farming, as a rich supply of microorganisms that fix nitrogen and solubilize phosphorus, and as a rich source of nutrients.

Then stir the solution well and left in the shade for 48 hours. Stir the mixture many times for at least 10 minutes. It begins to ferment. Jeevamrut is ready to use in 48 hours. It is suitable for use into 4 to 5 days.

nutrients (N 1.97%, P 0.172%, K 0.29%, Mn 47 ppm, and Cu 50 ppm).

In Liquid Form apply 5 to 10% Jeevamrut in water as a spray. 200 Litres of Jeevamrut are necessary for one acre of land. Spray every 7 to 14 days to have the best benefits. In its solid form, ghanjeevamrutam can be applied straight to your land. You may apply it to the soil as a powder, similar to vermicompost or farm yard manure.



# **Merits of Jeevamrut**

Jeevamrut play a crucial role to increase the beneficial bacteria in soil. Acts as an agent to boost the microbial population and friendly bacteria in the soil; improves soil pH. Jeevamrut may be manufactured in 4-5 days, allowing it to be used successfully and often. It is suitable for all crops and

#### Limitations in use of Jeevamrut

Jeevamrut is made from animal remains and, as a result, has a highly unpleasant odour. Because it is liquid, it cannot be **Shelf-Life of Jeevamrut** 

Jeevamrut must be maintained in the shade and covered at all times. It must be ensured that no bug falls into the mixture or lays eggs in it. To avoid this, always keep the container covered with a wire mesh or plastic cover. It may be preserved for 60 to **Conclusion** 

Jeevamrut is a low-cost liquid organic manure that is abundant in natural carbon, helpful microorganisms like as nitrogenfixing and phosphate-solubilizing bacteria, and macro and micronutrients. Thus, the usage of Jeevamrut is the best organic boosts output. Jeevamrut lowers the expense of chemical fertilizers. It is simple to use as fertigation with irrigation water. Jeevamrut helps to promotes aeration, increases beneficial bacteria, is appropriate to all plants, and much more.

Agriculture

broadcast. The liquid has a shelf life of 10-12 days after which it is no longer powerful.

75 days without losing quality as long as it is kept in the shade and stirred twice in a day. Because the solution thickens with time, additional water must be added as needed.

substitute to chemical fertilizer and a superior bio enhancer that will enhance soil fertility and encourage sustainable crop production and quality. Jeevamrut contains a diverse microbiological life.