

## Jeevamrut: Preparations and Benefits

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Jeevamrut is a bio-fertilizer rich in beneficial microorganisms such as nitrogen-fixing and phosphate-solubilizing bacteria that help to improve the soil fertility, productivity of the crop and improves the mineralization of the soil. Jeevamrut is derived from two words “Jeevan” and “Amrit”. Jeevan means life and Amrit means medicine (Abhishek, 2020). Jeevamrut, often called the “elixir of life” for the soil, is a natural fertilizer that harnesses the power of beneficial microorganisms to rejuvenate farmlands and promote sustainable farming practices.

### Preparations of Jeevamrut



Take 100 litre water in barrel and add 10 kg cow dung plus 10 lit cow urine. Mix well with the help of wooden stick add two kg of jaggery and two kg of gram flour or any pulse flour mix this solution well with wooden stick. Keep this solution for fermentation for 5 to 7 days. Shake the solution regularly times a day.

### Nutrient status of Jeevamrut

Parameter	Jeevamrut
pH	7.07
Soluble salt (EC) dSm-1	3.40
Total Nitrogen per cent	770
Total Phosphorus (ppm)	166
Total Potassium (ppm)	126
Total Zinc (ppm)	4.29
Total Copper (ppm)	1.58
Total Iron (ppm)	282
Total Manganese (ppm)	10.7

(Source: <https://agritech.tnau.ac.in/>)

### How To Use?

Used as soil application either by sprinkling or by applying through irrigation water. After preparing jeevamrut, it is very easy to use. We apply jeevamrut in the field through irrigation. Jeevamrut is diluted with water in a 1:4 ratio *i.e.* 1 liter of jeevamrut and 4 liter of water. Jeevamrut is diluted with water and applied to the plant.

### Benefits of Jeevamrut

Jeevamrut is an organic fertilizer that is a vibrant source of Nitrogen, phosphorus, Potassium, and all other micronutrients that play a vital role in plant growth and development. It

maintains the pH of the soil, improves the aeration in the soil, and increases the beneficial bacteria for plant growth (Abhishek, 2020; Kaur and Saini, 2021).

The following benefits of Jeevamrut are as:

**1) Soil Fertility Enhancement:** Jeevamrut improves soil fertility by enriching it with essential nutrients and organic matter. The microorganisms present in Jeevamrut break down complex organic compounds into simpler forms, making them readily available to plants. This process enhances nutrient uptake, leading to healthier and more productive crops

**2) Pest and Disease Management:** The microorganisms in Jeevamrut act as natural antagonists against harmful pests and diseases. They suppress the growth of pathogenic organisms by competing for resources and producing antimicrobial compounds (Gupta, 2020). This natural defense mechanism reduces the reliance on chemical pesticides, making Jeevamrut an eco-friendly alternative

## Conclusion

Jeevamrut is a blessing for farmers, enabling them to increase crop productivity, improve soil quality, and reduce their dependence on harmful chemicals. This organic fertilizer embodies the principles of sustainable agriculture, ensuring a greener and more prosperous future for both farming communities and the environment. Jeevamrut has so many benefits which is why it has become a boon for farmers.

## References

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2. Gupta, R.. (2020). Evaluating the Efficacy of Jeevamrut in Pest Management. *Journal of Organic Farming*, 15(3): 78-92
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