

Importance and Preparation of Panchgavya in Organic Farming

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Organic farming is steadily becoming the backbone of sustainable agriculture. It emphasizes natural inputs, soil health, and eco-friendly crop production. Among various organic formulations, Panchgavya stands out as a unique bio-enhancer. Rooted in traditional Indian farming practices, Panchgavya is a fermented product made from five cow-derived components. It is widely used as a growth promoter, soil conditioner, and plant protection agent in organic farming.

Importance of Panchgavya in Organic Farming

* Natural Growth Promoter

Panchgavya contains growth hormones like auxins and gibberellins, which stimulate seed germination, root growth, flowering, and fruiting.

* Soil Fertility Enhancer

It enriches the soil with beneficial microorganisms that improve nutrient availability, enhance organic matter decomposition, and maintain soil structure.

* Pest and Disease Resistance

Regular foliar sprays of Panchgavya strengthen plants' natural defense systems, reducing dependency on chemical pesticides.

* Quality Produce

Crops treated with Panchgavya show better taste, aroma, and shelf life, meeting the rising demand for healthy organic produce.

* Low-Cost and Farmer-Friendly

Prepared from cow-based products and common household ingredients, Panchgavya is affordable and can be made on the farm itself, reducing input costs.

Preparation of Panchgavya

Ingredients (for 20 liters):

- . Fresh cow dung – 5 kg
- . Cow ghee – 1 liter
- . Cow urine – 3 liters
- . Cow milk – 2 liters
- . Cow curd – 2 liters

- . Jaggery – 500 g
- . Ripe banana – 1 kg (optional, for better fermentation)
- . Tender coconut water – 3 liters (optional, energizer)
- . Water – sufficient

* **Method of Preparation**

- . In a wide-mouthed earthen or plastic pot, mix cow dung and cow ghee thoroughly. Keep for 2–3 days, stirring daily.
- . Add cow urine and water to the mixture, stir well.
- . On the fifth day, add milk, curd, jaggery, banana, and coconut water.
- . Keep the mixture in shade for 15–20 days for fermentation, stirring twice daily.
- . After fermentation, Panchgavya is ready for use.

* **Application in Farming**

- . Seed treatment: Soak seeds in 3% Panchgavya solution before sowing.
- . Foliar spray: Spray 3–5% solution at 10–15 day intervals.
- . Soil application: Mix 200 liters per acre with irrigation water.
- . Seedling treatment: Dip roots of seedlings in diluted solution before transplanting.

Conclusion

Panchgavya is more than just an organic formulation; it is a holistic solution for sustainable farming. By promoting plant growth, improving soil health, and reducing dependency on chemicals, it ensures eco-friendly and profitable crop production. Adopting Panchgavya in organic farming not only supports farmers but also contributes to healthier food systems and environmental conservation. Thus, Panchgavya holds the key to achieving sustainable agriculture in harmony with nature.