

Preparation of Panchgavya & uses

Navneet Rai¹, Vandana Pandey² and Abhishek kumar³

Introduction:

Panchgavya is a traditional organic formulation derived from five products obtained from cow :-

☞ Milk, Curd, Ghee, Urine, and Dung

“Panchgavya” is a Sanskrit word where ‘Pancha’ means five and ‘Gavya’ means products obtained from cow.

Composition of Panchgavya:-

The basic ingredients of Panchgavya are :-

1. Cow dung (Gomaya) :-

Rich in beneficial microorganisms and organic matter.

2. Cow urine (Gomutra):-

Contains micronutrients, enzymes, and growth promoting hormones.

3. Cow Milk :-

Provides proteins, fats, and vitamins that nourish microbial activity.

4. Curd (Yogurt):-

Enhances the microbial population, especially lactic acid bacteria.

5. Ghee(Clarified butter):-

Acts as an energy source and improves shelf life of the formulation.

Preparation method :-

Panchgavya is usually prepared through a **fermentation process**.

1. Fresh cow dung and ghee are mixed thoroughly and kept for 3-5 days.
2. Then, cow urine, milk, and curd, are added and mixed well.
3. Banana and coconut water are added to accelerate microbial activity.
4. The mixture is fermented for 15-20 days, stirred twice daily for proper aeration.
5. The final product is thick brown liquid with a characteristic fermented smell.

Uses of Panchgavya

In Agriculture :-

- ⇒ **Biofertilizer:-** Enhances soil fertility & microbial activity.
- ⇒ **Biopesticide:-** Control harmful pathogens and insect pests naturally.
- ⇒ **Plant growth promoter :-** Improves seed germination, root growth and yield.
- ⇒ **Compost enhancer:-** Accelerates decomposition of organic matter.

Navneet Rai¹, Vandana Pandey² and Abhishek kumar³

¹(M.Sc. Ag. Hort. Vegetable Science, CSJMU Kanpur, SAST)

²(M.Sc. Ag. Hort. Vegetable Science, CSJMU Kanpur, SAST)

³(M. Sc. Agronomy, CSJMU, Kanpur, SAST)

- ☞ Reduces dependency on chemical fertilizers and pesticides.
- ☞ Promotes Eco-friendly and sustainable farming practices.
- ☞ Enhances soil health and biodiversity.

