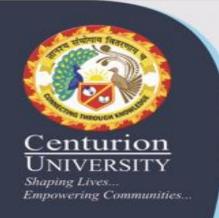


Center for Smart Agriculture Organic Farming



Module 2: Preparation and application of organic inputs

Session 8: Preparation of panchagavya



Preparation of Panchagavya

Panchagavya, an organic product has the potential to play the role of promoting growth and providing immunity in plant system. Panchagavya consists of nine products viz. cow dung, cow urine, milk, curd, jaggery, ghee, banana, Tender coconut and water. When suitably mixed and used, these have miraculous effects.

- •Cow dung 7 kg
- •Cow ghee 1 kg

Mix the above two ingredients thoroughly both in morning and evening hours and keep it for 3 days

- •Cow Urine 10 liters
- •Water 10 liters

After 3 days mix cow urine and water and keep it for 15 days with regular mixing both in morning and evening hours. After 15 days mix the following and panchagavya will be ready after 30 days.

- •Cow milk 3 liters
- •Cow curd 2 liters
- •Tender coconut water 3 liters
- •Jaggery 3 kg
- •Well ripened poovan banana 12 nos



All the above items can be added to a wide mouthed mud pot, concrete tank or plastic can as per the above order.

The container should be kept open under shade. The content is to be stirred twice a day both in morning and evening.

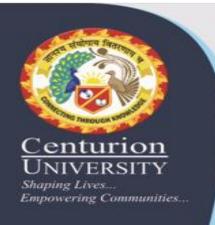
The Panchagavya stock solution will be ready after 30 days. (Care should be taken not to mix buffalo products. The products of local breeds of cow is said to have potency than exotic breeds).

It should be kept in the shade and covered with a wire mesh or plastic mosquito net to prevent houseflies from laying eggs and the formation of maggots in the solution. If sugarcane juice is not available add 500 g of jaggery dissolved in 3 liter of water.



Physico-chemical properties of Panchagavya revealed that they possess almost all the major nutrients, micro nutrients and growth harmones (IAA & GA) required for crop growth.

Presence of fermentative microorganisms like yeast and lactobacillus might be due to the combined effect of low pH, milk products and addition of jaggery/sugarcane juice as substrate for their growth.



Recommended dosage

Spray system

3% solution was found to be most effective compared to the higher and lower concentrations investigated. Three litres of Panchagavya to every 100 litres of water is ideal for all crops.

Flow system

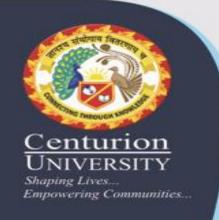
The solution of Panchagavya can be mixed with irrigation water at 50 litres per hectare either through drip irrigation or flow irrigation

Seed/seedling treatment

3% solution of Panchagavya can be used to soak the seeds or dip the seedlings before planting. Soaking for 20 minutes is sufficient. Rhizomes of Turmeric, Ginger and sets of Sugarcane can be soaked for 30 minutes before planting.

Seed storage

3% of Panchagavya solution can be used to dip the seeds before drying and storing them



Time of application of Panchagavya for different crops:

Rice: 10, 15, 30 and 50th day after transplanting

Black gram: Rainfed: 1st flowering and 15 days after flowering

Irrigated: 15, 25 and 40 days after sowing

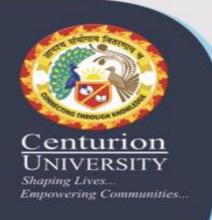
Green gram: 15, 25, 30, 40 and 50 days after sowing

Groundnut: 25 and 30th days after sowing

Tomato: Nursery and 40 days after transplanting: seed treatment with 1 % for

12 hrs

Reference: TNAU agritech portal: organic farming



Thank You