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# **Preparation of organic products**

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# 1. Panchagavya

- Materials Required
- Cow dung 7 kg
- Cow ghee 1 kgCow Urine 10 liters
- Cow Office 10 like
- Water 10 liters
- Cow milk 3 liters
- Cow curd 2 liters
- Tender coconut water 3 liters
- Sugarcane juice 3 lit
- Well ripened banana -12 nos.

#### Procedure

Mix the cow dung and cow ghee thoroughly both in morning and evening hours and keep it for 3 days. 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 remaining materials (cow milk, curd, coconut water, sugarcane juice and well ripened banana). All the above items can be added to a wide mouthed mud pot or 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

# 2. Jeevamruta preparation

Materials required Water - 100lit Cow dung- 10kg Cow urine- 10lit Jaggery- 2kg Pulse flour- 2kg 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.

#### **Recommended dosage**

*Spray system:* Three litres of Panchagavya to every 100 litre of water is ideal for all crops. The power sprayers of 10 litre capacity may need 300 ml/tank. When sprayed with power sprayer, sediments are to be filtered and when sprayed with hand operated sprayers, the nozzle with higher pore size has to be used.

*Flow system :* The solution of Panchagavya can be mixed with irrigation water at 50 litre 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.

#### Procedure

Take 100 liter water in barrel and add 10 kg cow dung plus 10 lit in cow urine.Mix well with the help of wooden stick add two kg jaggery and two kg of any pulse flour mix this solution well with wooden stick.Keep this solution for



fermentation for 5 to 7 days. Shake the solution regularly three times a day.

## Application

Used as soil application either by sprinkling or by applying through irrigation water. Three

3. Neemastra

Materials required

Neem leaves- 5kg

Cow urine- 5lit

Cow dung- 2kg

# Procedure

4.	Brahmastra
М	toriala noguino

Materials required		
Neem leaves	03kg	
Cow Urine	10lit	
custard apple leaf	02kg	
papaya leaf	02kg	
pomegranate leaves	02kg	
guava leaves	02kg	

#### Procedure

- Crush 3 kg neem leaves in 10 lit cow urine.
- Crush 2 kg custard apple leaf, 2 kg papaya leaf, 2 kg pomegranate leaves, 2 kg guava leaves in water.

#### 5. Neem seed kernel extract

#### Materials required

Neem seed kernels

Water

Soap solution

#### Procedure

- Neem seed kernels are collected washed cleaned in pure water and shade-dried for a few days.
- The outer rind of seed is broken and kernels gathered and ground well as paste form and 200 litre of water and 150 ml of soap solution are added and kept undisturbed for overnight, filter and spray in the morning.

#### 6. Tobacco Decoction

- Soak chopped tobacco pieces in 1 liter water for 24 hours. Dissolve sliced soap separately in another 100ml water.
- Filter both the solutions. Add soap solution to tobacco extract and stir vigorously.

applications are needed one before sowing, second after twenty days of sowing and third after 45 days of sowing.

Crush 5 kg neem leaves in water, add 5 lit cow urine and 2 kg cow dung, ferment for 24 hours with intermittent stirring, filter squeeze the extract and dilute to 100 lit, use as foliar spray over one acre, useful against sucking pests and mealy bugs.

- Mix the two and boil 5 times at some interval till it become half
- Keep for 24 hrs, then filter squeeze the extract. This can be stored in bottles for 6 months.
- Useful against sucking pests, pod/fruit borers.
- Dilute 2-2.5 lit of this extract to 100 lit for 1 acre.
- Mix paste of neem seed kernel with 5 litre of water and leave it undisturbed for overnight.
- The soaked solution must be boiled for 2-3 hours at 70-80°C.
- The colour of the solution will turn dark and allow it to cool, filter and store the extract in a clean glass-stoppered bottle.
- .In the next day morning, the suspension is filtered and sprayed by adding sufficient quantity of water.
- Dilute this solution 5 times with water before spraying. Best to use during evening hours.