

PANCHAGAVYA

An organic weapon against plant pathogens

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INTRODUCTION

Panchagavya is an organic product produced by using five products obtained from cow, viz, cow dung, cow urine, cow milk, ghee and curd. In Sanskrit, 'panchagavya' means 'five products from the cow'. Panchagavya has the potential to play the role of promoting growth and providing immunity in plant system. Panchagavya was found to have the properties of both, fertilizer and bio-pesticide. It posse's antifungal properties through which it is responsible for inhibition of spore germination and mycellial growth of fungal pathogen. Panchagavya is prepared from organic substance only so, it has no residual effect. With the control of disease, it also supply macro and micro nutrients and growth hormones to plant.

What is Panchagavya?



HOW TO PREPARE PANCHAGAVYA?

Panchagavya actually consists of nine organic products. In which, five products are from cow, viz, cow dung, cow urine, cow milk, ghee and curd. Other four products are jaggery, banana, tender coconut and water.

All the items are added to a wide mouthed mud pot, concrete tank or plastic can. Container should be kept open under shade. The content is to be stirred twice a day both in morning and evening. After 30 days, stock solution of panchagavya will be ready. 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.

PROCEDURE

- * Mix 1 kg cow dung and 1 kg cow ghee thoroughly both in morning and evening hours and keep it for 3 days.
- * After 3 days, mix 10 litres cow urine and 10 litres water and keep it for 15 days with regular mixing both in morning and evening hours.
- * After 15 days, mix 3 litres cow milk, 2 litres cow curd, 3 litres tender coconut water, 3 kg jaggery and 12 nos. of well ripened bananas in solution.
- * This mixture is stirred regularly twice a day and allowed to ferment for 30 days.
- *After 30 days, Panchagavya will be ready for use.

BENEFITS OF USING PANCHAGAVYA

Being a pure organic product, Panchagavya has beneficial effects on plant parts as well as on soil and microclimate also. Use of Panchagavya is an eco-friendly approach which improves soil health and fertility with increase in yield and quality of produce. It is a farmer friendly method which reduces cost of cultivation by reducing use of chemicals like fertilizers, pesticides, growth regulators, etc. Panchagavya is the effective and cheap substance for pest and disease control which does not require any special technique for preparation. It has multiple uses and suitable for all type of crops.

How to use Panchagavya?

Prepared Panchagavya should be diluted before using on plants. In morning or evening hours, diluted solution can be sprayed directly on small plants. Mechanical sprays can also be used after filtration of diluted solution. For big trees, diluted solution is applied at the root zone with irrigation water. For pest or disease infested plants, entire affected area is sprayed. For controlling seed borne pathogens, seed treatment is given with Panchagavya.

