BIO FERMENTED WATER

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Thailand International Cooperation Agency

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Benefits of Bio – Fermented Water

Good for the environment

Natural and Non - Toxic

Improve soil structure

and make the soil absorb water well, increasing microorganism in the soil

Use to water trees,
soak seeds and *plant cutting** for accelerate the rooting and plant growth

help adjust the acid – alkaline condition

Better and Healthier produce

Help to increase the rate of decomposition of organic matter in soil and water

Agriculture vocabulary
***plant cutting (n.)** A plant cutting is a piece of a plant that is used in horticulture for vegetative propagation.

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Materials

Water 20 – 30 liters

1 Ripe papaya

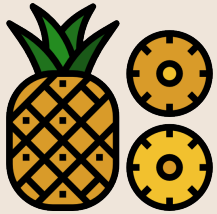
1 liter
sugar cane
molasses

Fermentation tank
size 50 liters

Bio-Fermented Water

1 hand
of bananas

1 pumpkin
Size 3 – 4 kg.



1 pineapple

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How to make Bio-Fermented Water

1.Chop vegetable and fruits into a fermentation tank

2.Add pure sugar cane molasses 1 liter

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How to make Bio-Fermented Water

3.Add water 20 – 30 liters

4. Stir all ingredients together

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How to make Bio-Fermented Water

5.Fermented for 2 weeks

Should open the lid and stir the ingredients for 1 – 2 times a week
*The fermentation tank should have a lid to prevent the flies lay eggs causing worms

6. The Bio – Fermented Water after 2 weeks

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How to make Bio-Fermented Water

7.After 2 weeks filter out the vegetable and fruits scraps with a sieve

8. Filter Bio – Fermented Water into plastic bottles or gallon

Close the lid tightly and can be used immediately
*If the bottle or gallon has gas, Regularly release the gas 1 – 2 times a month

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Bio – Fermented Water usage

Soil preparation period
Dilution rate 12 liters of Bio – fermented water : 45 liters of water per acre.
Spraying or pour on the ground before plowing

Soaking casavas' cutting
Dilution rate 1 liter of Bio – fermented water : 100 liters of water
Soak the casavas' cutting for 20 – 30 minute before planting

Plant growing period
Dilution rate 3 liters of Bio – fermented water : 45 liters of water
Spray the plants flowering and fruiting phase

Protect plants disease and pets in farm
Dilution rate 12 liters of Bio – fermented water : 100 liters of water per acre.
Spray in animal housing every 1 – 3 months

Livestock
Dilution rate 1 liter of Bio – fermented water : 40 liters of water per 100 m^2
Spray in garden/orchard 1 time a week

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