

Practical Guide for Preparation and Application of Organic Pesticide Using Neem and Garlic



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Brief on Organic Pesticide Preparation using **Neem and Garlic**

Researchers from Puntland State University, with KAALO and Diakonia, created an organic pesticide to help farmers in Cuun, a village in Puntland, Somalia. This eco-friendly solution fights pests like whiteflies and mealybugs and diseases like tomato blight, common during Somalia's dry season. Pesticides are safer for the environment and more affordable than chemical options. Cuun, a small village near Garowe, depends on a seasonal river and shallow wells for farming, which supports most of its 250 families. This project benefits local farmers and their communities.

What You Need: The process involves mixing a proportion of 100 grams of garlic and neem leaves to 1 liter of water to create a strong, effective solution. Firstly, the neem and garlic solutions need to be prepared separately. Later, both solutions will be mixed. If you want a higher quantity, just adjust by using this proportion as described below:



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Neem Solution:

- 1 kg neem leaves;
- 10 liters of water;
- Few drops of dish Soap.

Garlic solution:

- 1 kg garlic cloves;
- 10 liters of water;
- Few drops of dish soap.



Steps to Follow on Organic Pesticide Preparations

(1) Prepare neem solution

Collect and wash neem leaves. Boil leaves in 10 liters of water for 30 minutes. Let it cool, then strain the liquid. Add a few drops of dish soap to the solution and mix well. This will help the pesticide stick to the plants.

(2) Prepare garlic solution

Peel and crush garlic cloves into a paste. Mix the paste with 10 liters of water and let it sit for 24 hours. Strain the liquid and add a few drops of dish soap to the solution.

(3) Combine both solutions

Mix both solutions in a pot. Leave the solution of neem and garlic sit to fully extract the active ingredients. It will be ready for use within 7 days. Strain the mixture and pour into sprayers for application.

(4) Storage and usage

Store in plastic containers or jerrycans. Store for up to 3 months in a cool, dry place.



Why Its Good?

Effective pest control:

Targets common pests like whiteflies and mealybugs and protects your crop.

Good for rainy season:

Works well during the rainy season when there is more pest.

Increases farmers' income:

Helps farmers grow and sell more tomatoes.

Environmentally friendly:

Since it breaks down naturally, it is safer for the environment and human health compared to synthetic chemicals.

Prevents resistance:

Less risk of pests developing resistance, ensuring longterm effectiveness.

Did You Know?

Garlic is a natural pest fighter! It contains sulfur that repel insects, and its strong smell confuses pests, keeping them away from plants. Garlic also has antibacterial and antifungal properties, which help protect plants from diseases.

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