

# Preparation of Bio-Fertilizer with the Help of Microorganism for Insects Free Agriculture.

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**Abstract-** Biological control is a natural ecological phenomenon. Which can be successfully used in the management of pesticides, and it can be a balanced, sustainable and economical pest control tool. The use of micro-organisms for pesticides is called microbial control. This is a new aspect of biological control, in which the use of pesticides microbes is used for their control.

By practically looking for microbial control of insects and looking after the natural enemies of pests, their number can be increased by utilizing them for control of pesticides, which is available by marking experts and accessible. Inter-essentially, we can resolve this solution in such a way. It is necessary to determine the timing of the use of micro-organisms carefully on the weakening of the life cycle of the harmful insect.

Their individual age, i.e. life cycle, is reduced due to their use, be sure to note the pre-production method.

**Index Terms-** Biological control, pesticides, microorganism, pest control, organic agriculture.

## I. INTRODUCTION

By practically looking for microbial control of insects and looking after the natural enemies of pests, their number can be increased by utilizing them for control of pesticides, which is available by marking experts and accessible. Inter-essentially, we can resolve this solution in such a way. It is necessary to determine the timing of the use of micro-organisms carefully on the weakening of the life cycle of the harmful insect.

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## II. CONTENT AND METHOD

The use of microorganisms is useful in the preparation of pesticides for the preparation of insecticides in organic farming and in the preparation of matter for various types of pest control, in which some of the following are useful-

- *streptomycitis*
- *bacillus*
- *trichoderma*
- *pseudomonas*

And harebell leaves, green chilli, ginger, garlic, cow's urine, tobacco, neem leaves, acetic acid, neem powder, potato leaves etc. are used for organic farming. In this work, the seeds are purified first.

**To purify seeds: -**

- Use of jaggery
- Bay tree
- The soil of the shadow of the yellow tree

- The soil of the shade of neem tree is used in all in this way, through many materials, we can make a solution with different methods, make abundance of nutrients in the soil, as well as control the disease, whether it is through disease or by fungus and mold. We can naturally take control of microorganisms; we also have to use the microscope in this work in a variety of tests.

### III. METHOD OF PREPARATION OF PESTICIDE FOR ONE-ACRE FARM

- Take 40 liters urine of a native cow or bull.
- Mix 250kg neem leaves powder in 20 liters of cow urine.
- Likewise, two kilograms of harebell leaves were ripped and mixed in this mixture.
- The leaves of the oak also mixed in this mixture
- Chili powder
- Take the cucumber leaves and mix them in this mixture.
- 500gm-750gm of tobacco powder.
- Vine leaves also mixed in this mixture.

### IV. RESULT

MIX ALL THESE INGREDIENTS WELL AND KEEP IT ON THE BOIL AND AFTER COOL AND FILL THEM IN THE BOTTLE, NOW THE READY INSECTICIDE WILL NEVER BE SPOILED, THEN PUT IT IN WATER AND SPRINKLE IT ON THE CROP. IF, AFTER NOON, THIS INSECTICIDE CAN BE SPRAYED ON CROPS, IT WILL GIVE BETTER RESULTS, IN 2 TO 3 DAYS ALL PESTS WILL BE ELIMINATED. USING THIS, OUR AGRICULTURE YIELDS EXCELLENT RESULTS, SO IN THIS WAY WE CAN PRODUCE ORGANIC FARMING BY ADVANCED MATERIALS AND METHODS.

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