

## Ipomoea carnea : A Biopesticide

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### ABSTRACT

Organic pesticides or semi chemical pesticides are need of plants, soil, human health. chemical pesticides are responsible for non fertile land, carcinogenic effect in human being , deadly effect on animals and on plant growth, effect on water bodies , land ,adverse effects on human health ,monetary losses for buying chemical fertilizers, and worst effect on ecosystem, . on and many more. So here trying to minimize all losses by giving solution of semi chemical pesticide by plant. This plant abundantly available and can be effectively used for crop like cotton, rice, wheat. Farmers can easily grow this plant on sides of their farm.

Keywords : Fertile Land, Organic Pesticides, Semi Chemical Pesticides

## I. INTRODUCTION

**Ipomoea carnea** : This flowering plant has heart-shaped leaves that are a rich green and 6–9 inches (15–23 cm) long. It can be easily grown from seeds .The stem of *I. carnea* can be used for making paper.The plant is also of medicinal value. It contains a component identical to marsilin, a sedative and anticonvulsant. A glycosidic saponin has also been purified from *I. carnea* with ant carcinogenic and oxytoxic properties.



Fig 1. Ipomoea carnea plant

## II. METHODS AND MATERIAL

### Procedure :

Raw materials :

1. Ipomoea carnea leaves extract
2. magnesium sulfate
3. zinc sulfate
4. soap nuts

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## III. RESULTS AND DISCUSSION

Boil 4 Kilograms of Ipomoea **carnea** leaves in 40 litres of water, after evaporation of 20 litres of water remains. 50% evaporation of water.

filter mixture. Remove the filtrate.

Mix again 2 kilograms of Ipomoea carnea leaves , boil upto 10 liters remain.

Fill in 1 L capacity drums . add 25 gram / litre in each 1 litre of epimia carnea filtrate .

Add magnesium sulfate /zinc sulfate if deficiency in soil content or according to plant requirement i.e 4gram /liter.

This is going to use on rice plants , cotton , Wheat plants. showing good results .

## IV. CONCLUSION

this pesticide practiced in villages from ancient time .. practice is going to be vanished as new chemical fertilizers in market. It is todays need and research should be done to save earth.