

# BROAD SPECTRUM BIO-PESTICIDES

Broad spectrum bio-pesticides is an organic solution prepared from plants having bio-pesticidal properties.

## Material required:

- ✓ Stinging nettle (seinthap)- 5 Kg
- ✓ Eupatorium spp (Bat Japan)- 5 Kg each
- ✓ Lantana camara – 5 Kg
- ✓ Tobacco (Duma mutia) – 1 Kg
- ✓ Geranium sp (Tiew Jaiaw) – 5 Kg
- ✓ Neem leaves – 5 Kg
- ✓ Chilli- 1 Kg
- ✓ Garlic- 1 Kg
- ✓ Ginger- 1 Kg
- ✓ Seeds and leaves of Xanthoxylum (Jaiur)- 3 Kg
- ✓ Allium (Jalang)- 1 Kg
- ✓ Cow urine- 10 Lits
- ✓ Water- 90 Lits



Materials Used as Biopesticides



Prepared Biopesticides

## Method of preparation

- ✓ Chop all the above plant materials and keep them in a 200 lit drum.
- ✓ Add 10 lit of cow urine and fill the drum with water to make 100 lit.
- ✓ Seal the drum and allow it to ferment for 15 days.
- ✓ Stir the solution every day.
- ✓ After 15 days mix the contents properly
- ✓ Dilute 250 ml of concentrated solution with 10 lit of water and mix it thoroughly.
- ✓ Now use it as a foliar spray on the crop.
- ✓ The solutions prepared here be mixed well with soap solution at the rate of 10 g/lit of extract before spraying.

**Ideal spraying time:** It is recommended that the application or spraying of the all the botanical pesticide should be carried out only in the late afternoon of the day.

**Effective control:** The compounds produced by the fermentation of the above extract are poisonous to many micro-organisms and insects. The extract prepared is very useful for the control of wide variety of pests such as thrips, leafhopper, leaf folder, mealy bugs, fruit, stem and bark borer, hairy caterpillar and aphids.



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