

College of Agriculture, Phaltan

Demonstration no.-1



Demonstration on collection of neem seed and preparation of neem seed kernel extract.

name of students: Nale Sameer Bhanudas

registration number : CAP-2017/86

date:

Time:

Place: At the home of Mr. Bhanudas Nale.

No.of farmer participated : 07

Teaching aid used:

1. Practical manual of agri. Entomology
2. krishidarshini
3. guidance of Dr AC Khaire

material used:

- 1) Neem seed
- 2)Neem seed kernel extract
- 3)water
- 4) pump (knapsack sprayer)
- 5)Hand gloves
- 6)Detergent powder

- 7) Mask
- 8) Goggle
- 9) Grinder
- 10) Shoes
- 11) NSKE Solution
- 12) Muslin cloth
- 13) Wooden stick

Introduction:

- Neem (*Azadirachta indica*) is indigenous to India from very head screwed too many Asian and African countries
- all parts of the neem tree possess insecticide property but seed kernel is not active for it
- Neem bark leaf fruit as well as extract with various solvent especial ethanol have been found to exhibit activity against the insect and pest
- Neem seed kernel extract 5% contain active ingredient of *Azadirachta* nimbidin in neem seed.
- the Neem seed kernel extract is not harmful for human being

objectives :

1. to collect Neem seed for preparation of 5% kernel extract for controlling various sucking pests from neem seed by its application
2. to aware and motivate farmers about preparation and use of neem seed kernel extract 5%
3. 3. to reduce the use of chemical pesticides because they retain their Residue for longer time
4. 4) to show the how to Spray prepared extract

planning :

1. Neem seed kernel extract one of the important biopesticide so I decided to give demonstration on collection of neem seed for preparation of NSKE
2. I asked to my SMS about demonstration he gave guidance regarding demonstration to me .
3. I conducted material and relevant information related to demonstration on collection of neem seed for preparation of NSKE
4. I fix date time place for conduction of demonstration
5. then I give information regarding my demonstration to farmer

conduction :

1. firstly I decided to collect with the neem Seed therefore I search the neem tree for collection of neem seed
2. then I collected Neem seed from the those the found on the bunds of land or around the field .
3. 3) after Neem seed collection firstly I dried the neem seed in Shade
4. about 1 kg Neem seed are collected for the demonstration
5. then I fix the date time and place for demonstration
6. before one day of actual Spring and make the power of seed is mortal and pistil .
7. I make a uniform powder from neem seed and then I took about 25 gram of neem seed powder for preparation of solution
8. then this powder I took on Muslim clotah and this Muslim cloth was tied by rope
9. then such Muslim cloth bag with Neem seed powder I dipped in water for overnight before one day of spraying solution
10. about 500 gm need .seed powder was dip into 1 liter water for preparation of 5% in NSKE spraying solution .
11. on the next day I Poured the Neem seed extract in the bucket and 9 lit pop water added in the extract and making of 10 liter then I added 20 gram of detergent which act as surfactant
12. all material required for spraying was ready to use

13. then I give all the information to the farmers about demonstration from collection of neem seed to spraying extract on the plant
14. then I collected Neem seed extract with taken into bucket the solution was filled into knapsack sprayer for actual spring
15. then I spread this solution on pomegranate for control of sucking pest.
16. the spray solution required about 1 litre for one tree
17. in this way I complete the demonstration

precaution:

- 1) The neem seed should not dried into sunlight only dry under the shade for preservation of chemical present in seed .
- 2) neem seed powder tied into Muslim cloth and avoid blocking in Spraying.
- 3) Wear hand gloves while praying .
- 4) Spraying should be done early in morning or evening to avoid evaporation .

farmer questions:

1)what is the aim of spraying of NSKE?

Ans: to control sucking pest of crop .

2) Which crop are affected by sucking pest ?

Ans: soybean groundnut cowpea pomegranate .

3) why do use plastic bucket ?

Ans: because corrosive action takes place on metallic container .

student comments :

1. I got practical knowledge and preparation of NSKE learning by doing.
2. Farmer asked some questions. I was happy to give them satisfactory answer of all question they were asked to me
3. I'm satisfied by demonstration

• Farmer Feedback

1. The farmer said that they were satisfied by the information given by me after demonstration.
2. They unknown about the preparation and use of NSKE.
3. They thanked to me for conducting the demonstration.

• Follow up

Before demonstration they were unknown about the preparation and use of NSK unknown about the preparation and use of NSKE, after demonstration more farmer prepared NSKE for spraying in their field