

## **Successes Story on Integrated Pest management in Tomato**

- Name of Farmer :- Mr. Sunil Shinde
- Village:-Vasantwadi Tq. Mudkhed Dist- Nanded
- Land Holding:- 7 acres (Joint family)
- Crop Cultivated:- Tomato, Brinjal, Bitter guard, Bottle guard etc.
- He continuously cultivate these crops with many difficulties like incidence of pest and diseases like leaf curl virul, early blight, wilting etc. He uses more and more chemical spray for the management of these pest and diseases. But he has unable to manage it completely.
- **Plan of KVK to implement IPM technology:-**

During a training programme at KVK, Pokharni, Mr. Sunil Shinde has come in contact with the KVK scientist and discussed about his problem. The KVK scientists have immediately visited to his field/ village. They observed that there were no proper implementations of Pest Management techniques particularly from Nursery to field and also no use of disease resistance variety.

The technology involves as-

- i) Use of 'Arka Rakshak', high yielding F1 Hybrid with triple disease resistance variety for planting.
- ii) Raising of seedlings in protray by protecting with insect net structure in nursery.
- iii) Plantation of Maize and Cow pea as barrier crop on border of the field.
- iv) Use of sticky traps, pheromone traps.
- v) Use of plant origin bio pesticides for pest management along with judicious use of chemical pesticides.

The technology was taken up in Vasantwadi Ta. Mudkhed, Dist. Nanded and was successfully demonstrated. The practice of replacing the variety with Arka Rakshak helps in minimizing the pest and disease incidence and so increasing in yield. The entrance of virus vectors like White Fly and Thrips were restricted due to barrier Maize crop. The yellow and blue sticky traps also help to manage the sucking pest. Pheromone traps also helps to monitor the pest like Fruit borer, Tuta absoluta Leaf minor.

Mr. Sunil Shinde has raised 2800 seedlings in a half an acre plot during summer 2015-2016. He could harvest an average 6.6 kg per plant and fetched high price in summer, earned a net profit of about Rs. 1,85,000/-. Integrated Pest Management techniques have reduced the indiscriminate use of Chemical pesticides. So the cost of a plant protection gets reduced by 50% and also the number of sprays.

## Comparative study on Cost of cultivation

Sl. No.	Particular	Demo plot	Farmers plot
1.	Raising of seedlings	In Pro tray with insect Net protection	On raised beds without Insect net protections
2.	Border Barrier crop	Maize and cowpea	No, Barrier crop
3.	Variety	Arka Rakshak	Ganga -505
4.	Pest and disease incidence	10%	35- 50%
5.	No. of spray	9	20
6.	Cost of plant protection	13500	22300
7.	Yield per acre	24 Ton.	20 Ton
8.	Gross profit (Rs.)	3,99,840/-	3,33,200/-
9.	Cost of cultivation	120000/-	150000/-
10.	Net Profit	2,79,840/-	1,83,200/-



Training to Tomato Growers on Integrated Pest Management at KVK.



Raising of Seedlings in Nursery protected with Insect proof net.



Use of plastic mulch and trap crop of Maize



Implimentation of Integrated Nutrient management



Installation of Yellow sticky traps for Sucking pest



Installation of Blue sticky traps attached with lure for *Tuta absoluta* leaf minor



Visit of Dr B.B.Bhosle, Director of Extension, VNMKV, Parbhani on Demonstration plot at Vasantwadi, Tq. Mudkhed