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# Introduction

## Kush Datt Rawat



**VNR SEED**  
GOOD SEED BETTER YIELD

Organization: VNR Seeds Pvt. Ltd.

Designation: Executive Production



# Responsibilities:



**Hybrid Seed Production of Vegetables**

# Responsibilities:

- **Hybrid Seed Production of Vegetables**

- ☐ Around area of 438 acres in contract seed production
- ☐ Involvement of 960 (Approx) farmers of 28 villages
- ☐ Major crops: Cucurbits & Chilli



# Vegetable Grafting





Major Crops: Eggplant, Tomato & Chilli





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# Vegetable Grafting

- Some of Cucurbits also
- This year: 5,000,000 plants
- Next Year:10,000,000 plants







# Irrigation setup





**Water supply for all nursery farms**





# Setup of fertigation water with alteration of plain water







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# Dosing pump for Fertigation



A photograph showing the interior of a greenhouse with a complex irrigation system. Multiple grey tubes run horizontally across the frame, with several vertical risers and emitters hanging from them. The emitters have a ribbed, cylindrical design. The background shows the translucent plastic covering of the greenhouse structure.

Foggers

Irrigation setup inside green house



# Topics from Module 1

- Developing IPM packages for major vegetable crops
- Management of Virus, Bacterial and fungal diseases in Vegetable crops
- Management of nematodes in vegetable crops

# My role of action:

- IPM packages for major vegetable crops
- Including Nematodes
- Why Important?
- To reduce the risk of Loss upto 15 to 20% in seed prpduction





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# Major Insects we have:



- Aphids, Jassids
- White fly, Thrips and mites
- Leaf minor, Fruit fly
- Fruit & shoot borer (*Spodoptera*)
- Red Pumpkin beetle





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# Major Diseases:

- Powdery & Downy mildew
- Damping off
- *Phytophthora* root rot
- Blossom end rot and stem rot
- Rust







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# Major Diseases:

## Wilt

- *Fusarium*
- *Ralstonia* &
- *Verticilium*

- Leaf spots
- Soft stem rot







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# Viruses:

## Leaf Curl Virus in Chilli





# Tospo Virus in Chilli







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# Pumpkin

## Virus / Yellow Wine disease



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# Nematodes



# Objectives:

- Developing best IPM packages for major crops with focus on major insects-pests.
- Sharing and application in farmer's fields.
- Initial training of field supervisor.
- Complete in 1 year.
- Distribution of written package to farmers.





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# Activities:

- Preparation of protocols including all possible control measures
- Discussion with staffs





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# Meeting with farmers





# Visits with farmers for Exposure





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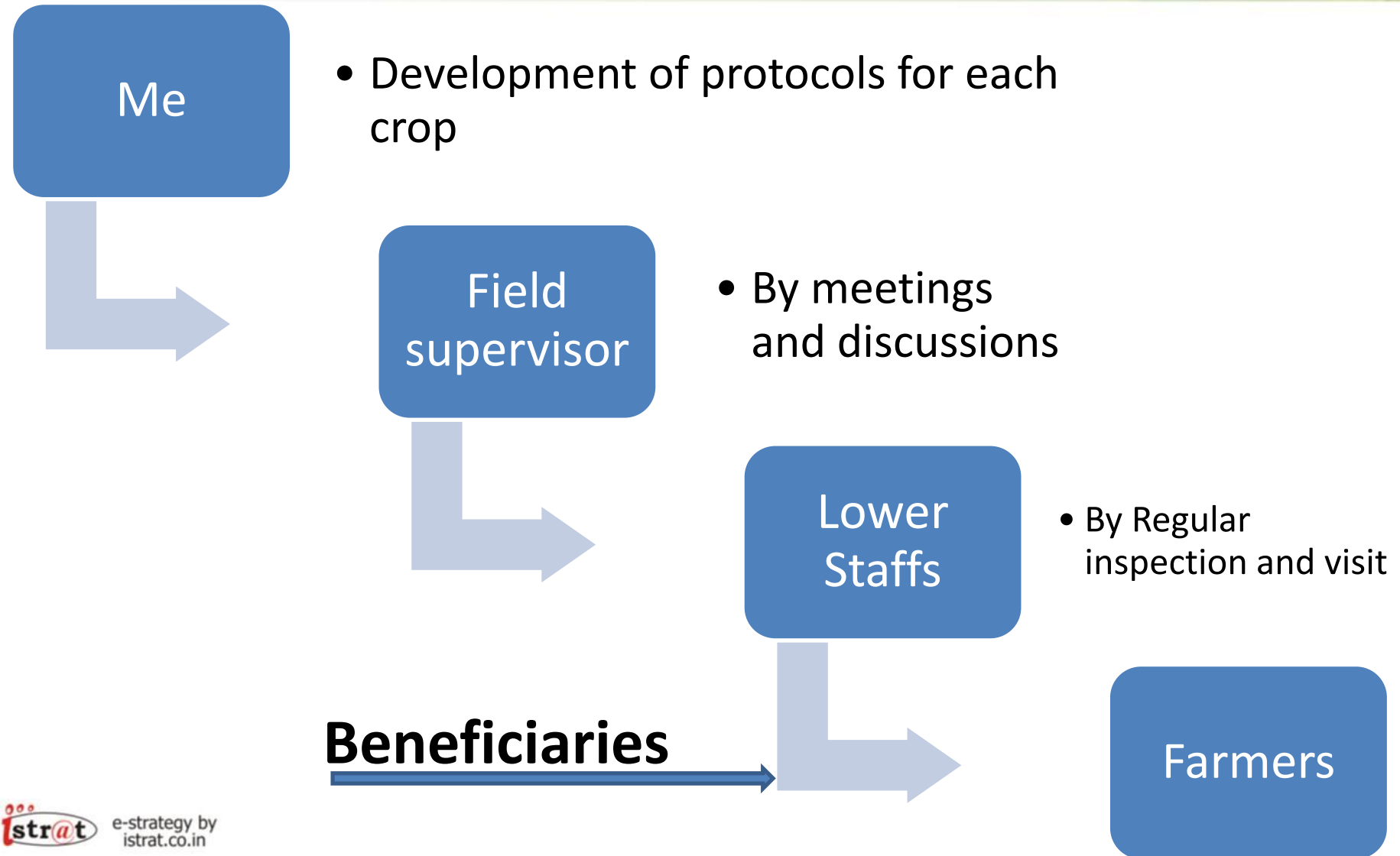
# When will activities take place?

- During the each crop cycle through out the year.
- 3 to 4 field visit to farmer's field during pre-pollination, post-pollination and fruit harvesting stage.





# Involvement





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# Resources will needed:

- Human
- Financial support
- Vehicle transportation
- Refreshment and other small expenses
- Demo material (Plastic mulch, Transparent polythene, seeds of trap & barrier crops etc.)







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# Challenges Issues



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- Acceptance and understanding of farmers
- Ability of staffs to transfer the knowledge to next level



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# Q & A





Thanking You.  
Hope see you again.....somewhere

