



# इंस्टीट्यूट ऑफ़ हार्टीकल्चर टेक्नालॉजी Institute of Horticulture Technology

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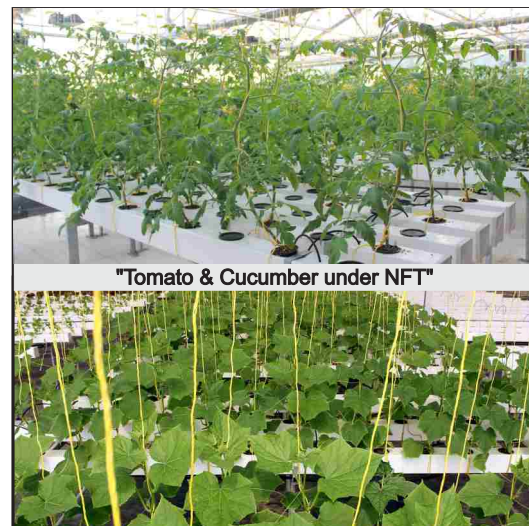
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Monthly

## Wishing all our readers and ex-participants Happy and Prosperous 2015

This month a demonstrative trial was started on production of vegetable crops under hydroponic system in NFT (Nutrient Film Technique). IHT has been successful in growing tomatoes and cucumber along with lettuce under hydroponic system in polyhouse. NFT system is a technique wherein a very shallow stream of water containing all the dissolved nutrients required for plant growth are re-circulated and pass the bare roots of plants in a watertight gully, also known as channels.



Interactive lecture in class room



Exposure visit of farmer - Different hi-tech facilities

## TRAINING ON HORTICULTURE TECHNOLOGY – INNOVATIONS AND PRACTICES

- Participants were progressive farmers from different blocks of dist. Surajpur, Chhattisgarh. Surajpur is a well known district of for its horticultural crops particularly tomato and chilli. According to Mr. R. D. Patel, Additional Director Horticulture, this district supplies chilli all over the state and even in the other states also.

One hundred and thirty eight farmers from this district participated in 7 days training course on "Innovative Production Technology of Horticultural Crops". During this time period the farmers were trained in hi-tech practices of horticulture, which can help them in enhancing crop production. The pedagogy was based on experiential learning that is providing practical "Hands on Training". Course curriculum

covered Hi-Tech Nursery Production, Production Technology of High Value Crops in Polyhouse and Open, Plant Protection, Post Harvest Management and Fertigation technique. They were also made aware of the various important practices e.g, how to protect themselves during spraying pesticides, identification of pesticides, soil solarization and mulching techniques in crops and integrated pest management.

- Entrepreneurs from various sectors had come for an another training programme in "Production of Hi-Value Vegetables under Polyhouse". They were trained in controlling Ec & pH of nutrient solution, automated drip irrigation & fertigation system. Participants were exposed to different soil-less growing medium.



Interaction in field classroom

## Details of skill development programme

| S. No. | Details of Participants      | Duration | State                                           | Training Title                                    |
|--------|------------------------------|----------|-------------------------------------------------|---------------------------------------------------|
| 1.     | Progressive Farmers Surajpur | 07 Days  | Dist. Surajpur, Chhattisgarh                    | Innovative Vegetable Production Technology        |
| 2.     | Entrepreneurs                | 03 Days  | Different states of India including Maharashtra | Production of Hi-value Vegetables under Polyhouse |

## Feedback From Trainees:

1) *The best part of the training was how we can increase our production with adoption of very simple things like nursery growing, use of mulching and drip. I will adopt these facilities at my place and I am very glad that I have got such opportunities to come over here and be a part of the training.*

Parash Ram Kashi, Bhaiyathan, Surajpur - Farmer

2) *I am feeling benefitted by the lectures and hands on training here in this institute. I want to establish a polyhouse at my place for tomato cultivation and I will also encourage my farmer friends to adopt such kind of hi-tech facilities for our economic betterment.*

Beegan Rai Pekra, Pratappur, Surajpur - Farmer

3) *Training was quite benefitted for me as all the lectures were very informative. I was always interested in soil less gardening. It was very beneficiary to see the innovative methods of gardening adopted by IHT under polyhouse.*

Nilesh Rathod, Pune, Maharashtra - Entrepreneur



Practical class on soil-less Nursery Preparation, Vermicompost Production &

## IHT MAKE HORTICULTURE A SUCCESS STORY BY SKILL DEVELOPMENT

### Important Visitors:

Mr. Umesh Singh, Media Advisor to Sh. Rajnath Singh ( Hon'ble Home Minister, Govt. of India) visited various facilities of Institute of Horticulture Technology. He was also present in the closing ceremony and distributed certificates to trainees on their successful completion of the programme. He also shared some of his experience with the participants and appreciated the efforts made by IHT in the skill development in horticulture system the sector of horticulture.

### Exposure Visit:

Exposure visits conducted by IHT helped participants to be acquainted with the marketing system of various horticultural crops. Farmers were exposed towards different kind of hi-tech facilities like nursery raising techniques of vegetables and fruits in soil less substrates, different types of polyhouses, their management as well as good horticultural practices, such as plastic mulching, vermicomposting etc. Beside this, they also visited historical places in the vicinity of Delhi. Participants were also shown different kind of parks and gardens and they enjoyed the beauty of landscaping, seasonal & perennial flowers and cactus.



Visit to historic places in Delhi



Landscaping

### Some useful tips for growers

- 1 kg vermicompost can provide same benefit of 2 kg FYM.
- One kg earth worms make 30-35kg farm waste in good vermicompost in one week
- One kg farm waste make half kg vermicompost.
- Use light jaggery (gud) solution to moisten vermi-bed. It will help in earthworm of multiplication.
- Never use fresh cow dung for vermicompost. Earthworms may die due to heat generated in side.
- Don't cover vermi-bed with thick gunny bag. Aeration inside the bed is necessary for respiration of earthworms.
- Always cut the plant debris into small pieces before adding them to vermi-bed, so that earthworm can easily chew them. Other-wise fruit flies may attack.
- In case of fruit fly attack, put a bottle half filled with vinegar near vermi-bed. Flies will be attracted to the bottle.

# Training Calender

| Course Code                                                                | Date - Month                                      | Duration                                               | Course Title                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>February 2015</b>                                                       |                                                   |                                                        |                                                                                                                                                                                                                                                |
| PRT-516                                                                    | 1 - 5 February                                    | 5 days                                                 | Innovative Nursery Raising Techniques in Vegetables                                                                                                                                                                                            |
| PRT - 314:<br>Level 1<br>PRT - 713:<br>Level 2<br>PRT - 721:<br>Level 3    | Every Monday<br>Date: 1st, 8th,<br>15th, 22nd     | Level 1: 3 days<br>Level 2: 7 days<br>Level 3: 15 days | Innovative Nursery Raising Techniques of Horticultural Crops<br>Options 5: (Vegetable/Flower / Forest / Medicinal Plant )                                                                                                                      |
| PRT - 517                                                                  | Every Friday<br>Date: 5th, 12th,<br>19th, 26th    | 5 days                                                 | Production Technology of Seed Spices                                                                                                                                                                                                           |
| TEC - 512                                                                  | Every Friday<br>Date: 5th, 12th,<br>19th, 26th    | 5 days                                                 | Innovative Irrigation and Fertigation Techniques in Greenhouse                                                                                                                                                                                 |
| TEC - 513                                                                  |                                                   | 5 days                                                 | Vermicompost – Production and Use                                                                                                                                                                                                              |
| TEC - 515                                                                  |                                                   | 5 days                                                 | Rejuvenation of Senile/ Unproductive Orchards                                                                                                                                                                                                  |
| MGT - 717                                                                  |                                                   | 7 days                                                 | Greenhouse Construction, Management and Production                                                                                                                                                                                             |
| TEC - 712<br>MGT - 313<br>MGT - 315<br>MGT - 316                           | 4 - 10 February                                   | 3 - 7 days                                             | Skill Certification Courses:<br>(i) Greenhouse Technicians<br>(ii) Gardener - Indoor Plantation<br>(iii) Gardener - Pot Maintenance<br>(iv) Precision Horticulture with special emphasis on vegetable production                               |
| PRT - 714<br>TEC - 311<br>PRT - 315                                        | Every Wednesday<br>Date: 3rd, 10th,<br>17th, 24th | 3 - 7 days                                             | Exclusively for women:<br>(i) Protected Vegetable and Cut Flower Production<br>(ii) Pesticides - Importance and Usage precautions<br>(iii) Innovative Home Fruit and Vegetable Growing                                                         |
| MGT - 512                                                                  | Every Wednesday<br>Date: 3rd, 10th,<br>17th, 24th | 5 days                                                 | Banana Production - One Stop Solution from Lab to Land                                                                                                                                                                                         |
| <b>March 2015</b>                                                          |                                                   |                                                        |                                                                                                                                                                                                                                                |
| PRT - 314:<br>Level 1<br>PRT - 713:<br>Level 2<br>PRT - 721:<br>Level 3    | Every Monday<br>Date: 7th, 14th,<br>28th          | Level 1: 3 days<br>Level 2: 7 days<br>Level 3: 15 days | Innovative Nursery Raising Techniques of Horticultural Crops<br>Options 5: (Vegetable / Flower / Fruit / Forest / Medicinal Plant )                                                                                                            |
| PRT - 311                                                                  | 1 - 3 March                                       | 3 days                                                 | Hi-Tech Nursery Management and Production of Quality Planting Material                                                                                                                                                                         |
| PRT - 516                                                                  | 8- 12 March                                       | 5 days                                                 | Innovative Nursery Raising Techniques in Vegetables                                                                                                                                                                                            |
| PRT - 312                                                                  | 14 - 16 March                                     | 3 days                                                 | Production of High Value Vegetable Crops under Polyhouse                                                                                                                                                                                       |
| MGT - 511                                                                  | 15 - 19 March                                     | 5 days                                                 | Good Horticultural Practices                                                                                                                                                                                                                   |
| PRT - 711                                                                  | 25 - 31 March                                     | 7 days                                                 | Production of Vegetable Crops (Tomato/ Cucumber/ Capsicum) under Polyhouse                                                                                                                                                                     |
| TEC - 712<br>TEC - 313<br>MGT - 313<br>MGT - 314<br>MGT - 315<br>MGT - 316 | 9 - 15 March                                      | 3 - 7 days                                             | Skill Certification Courses:<br>(i) Greenhouse Technicians (ii) Micro Irrigation Technicians<br>(iii) Gardener - Indoor Plantation (iv) Gardener - Pot Maintenance<br>(v) Precision Horticulture with special emphasis on vegetable production |
| PRT - 714<br>TEC - 311<br>PRT - 315                                        | Every Wednesday<br>Date: 2nd, 9th,<br>16th, 30th  | 3 - 7 days                                             | Exclusively for women:<br>(i) Protected Vegetable and Cut Flower Production<br>(ii) Pesticides - Importance and Usage precautions<br>(iii) Innovative Home Fruit and Vegetable Growing                                                         |
| MGT - 512<br>to MGT 721                                                    | Every Wednesday<br>Date: 2nd, 9th,<br>16th, 30th  | 5 days                                                 | Banana Production - One Stop Solution from Lab to Land                                                                                                                                                                                         |



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