



# इंस्टीट्यूट ऑफ़ हॉर्टीकल्चर टेक्नालॉजी Institute of Horticulture Technology

ISO 9001:2008 certified

Accredited by Ministry of Agriculture, GOI

Vol.2, No. 5

May-June 2015

Bimonthly

## Empanelment with Department of Agriculture & Cooperation Ministry of Agriculture, Government of India

It is a matter of great pleasure that the Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India empanelled & nominated the "Institute of Horticulture Technology" as a Training Resource for imparting training on various aspects of hi-tech horticulture, i.e. protected cultivation, organic horticulture, water management, micro irrigation, precession farming system etc for one to seven days training duration under the schemes of MIDH, OFWM and NMSA. The training programmes will be conducted at State/ District/ Block level of the state where schemes of OFWM-NMSA, MIDH and RKVY are being implemented.

The Institute also provides onsite training in Blocks, District and State level in various states and Union territories in parallel. IHT is a recognized training institute from AAU-Johrat and also conducted number of training programmes through ICAR, MIDH, NDMC, RKVY and CIH. Entrepreneurs from different state of India & abroad has participated in trainings conducted on hi-tech horticulture.

In spite of considerable progress achieved during the last three decades in horticulture production in India, the average productivity is still low, indicates the scope to enhance the yield in different horticultural crops especially in vegetables by many folds along with its quality. This is because of an appealing gap between potential yield and the actual yield of various vegetable crops.

Farmers are not getting appropriate return from their produce, due to some natural calamities & glut of produce in main season crop production. The increasing demand of off-season and high quality vegetables in various markets of the big cities has attracted the attention of the vegetable growers for diversification from traditional way of vegetable production to protected cultivation.



Area under protected cultivation in India has gone up from mere 5 ha in 1983 to more than 30,000ha today. This growth has been made possible by indigenous development of greenhouse technology, liberalized imports of essential components, government popularization programmes and globalised economy. Besides Indian greenhouse companies, a number of international firms have entered in the Indian market. Greenhouse technology in India has much more potential than what has been realized so far. The total area under protected condition should increase to over 100,000 ha during next one decade. This estimate is based on similar experiences in countries like China (2,760,000 ha), South Korea and Japan, one hundred thousand hectares under protected environment mean at least 10 lakh new jobs, greater availability of horticultural produce in



domestic market, expansion in export, and development of villages. In the process, the greenhouse industry in India would have developed to the extent that we would also be able to export the technology to other developing countries.

*" Working in garden is like digging knowledge from the earth"*



## Progress in Skill Development

**Chhattisgarh:** Under a scheme of State Horticulture Mission for Integrated Development of Horticulture a group of 94 farmers from Balrampur district of Chhattisgarh took part in skill development training on "Precision Farming in Horticulture". The pedagogy was including of soil moisture conservation through mulching, drip irrigation and fertigation system, vertical growing system in vegetables, use of organic source for plant nutrition, raising of quality planting materials etc. A farmer's main goal is to produce good and healthy crops, but due to various biotic and abiotic stresses they are either facing production declination in or high investments. Participants were trained in integrated nutrient and pest management to manage these conditions accordingly.

**Madhya Pradesh:** Horticulture officers from Madhya Pradesh participated in a 8 day training programme on "Good Horticultural Practices". The course prospectus was based on experiential learning and "hands on training". Course curriculum covered soil-less nursery production, soil solarization and mulching techniques in crops, plant protection and post harvest management and fertigation techniques. The trainees were explained about the pesticide management and various important practices e.g, identification of pesticides on the basis of toxicity, integrated pest management & precautions during spray / use of insecticides.



## Exposure to practical implication of technologies

Exposure visits conducted by IHT for the trainees, encouraged the participants for the innovative crop raising techniques and marketing system of various horticultural crops. Participants were brought to observe the implications of various Hi-tech operations at field level, to assess the utility of these technologies and can get more confidence to adopt. A visit of developed parks & gardens was also organized for Identification of seasonal perennial flowers and cacti along with landscaping techniques. Farmers were also exposed towards different kind of hi-tech facilities like nursery raising techniques of vegetables and fruits in soil less substrates, different types of Polyhouses and their management as well as good horticultural practices such as plastic mulching, Vermicomposting etc. Delhi is surrounded by a number of historic monuments and palaces. Trainees were also taken to a few of those historical places in the vicinity of Delhi.

## Feedback from Trainees

“यह हमें अत्यंत लाभप्रद जानकारियाँ प्राप्त हुई हैं। जिससे हमारी फसलों के उत्पादन में वृद्धि होगी और फसलों को कीट पतंगों से बचाने के लिए आवश्यक दवाइयों का चयन भी कर सकेंगे”

(Vishnu Bachharoo, Vill- Krishna Nagar, Dist- Balrampur, Chhattisgarh)

“We learnt a lot about polyhouse and growing of crops under, we learnt how to measure EC and pH of soil as well as water. Teaching ability and practical knowledge of trainers was very appreciable. I wish to visit again this institute with farmers from our place”

(Sandeep Kumar Prajapat, Rural Horticulture Extension Officer, Sirmour, Rewa, Madhya Pradesh)

“किसानों के लिए सरल भाषा में प्रशिक्षण देना बहुत अच्छा लगा। संस्थान में जो हमने सीखा वह काफी लाभकारी है, जैसे पॉलीहाउस एवं ग्रीन हाउस में सब्जी किस प्रकार से तैयार की जाती है एवं उससे किस प्रकार से अधिक उत्पादन किसान प्राप्त कर सकते हैं।”

(Debendra Singh Bhadauriya, Senior Horticulture Development Officer, Sahdol, Madhya Pradesh)

## Summary of Trainings

S. No.	Details of Participants	Duration	State	Training Title
1	Farmers	7 Days	Chhattisgarh	Precision Farming System
2	Horticulture	7 Days	Madhya Pradesh	Good Horticulture Practices

### **USEFUL TIPS FOR GROWERS**

Important tips to vegetable growers for August-September

1. Protect the crops tomato, chilli and brinjal from high temperature covering by shed nets if possible.
2. Irrigate the crop frequently with light irrigation at a interval of 2 to 3 days.
3. To control flower and fruit drop in chilli, spray the crop with planofix @ 1 ml in 4.5 liters of water.
4. Controlled flower and fruit drop in tomato by spraying 50 ppm PCPA (Parachlorophenoxy Acetic Acid) at the interval of 15 days at flowering stage.
5. Go for nursery sowing of early cauliflower. Suitable varieties are Pusa Deepali and Pusa Katki.
6. For early radish crop the suitable variety for the season is Pusa Chetki.
7. Avoid the pruning of fruit plants during this period.



# Training Calendar

Course Code	Date - Month	Duration	Course Title
<b>August 2015</b>			
PRT - 314: Level 1 PRT - 713: Level 2 PRT - 721: Level 3	Every Monday Date: 3rd, 10th, 17th, 24th	Level 1: 3 days Level 2: 7 days Level 3: 15 days	Innovative Nursery Raising Techniques of Horticultural Crops Options 5: (Vegetable / Flower / Fruit / Forest / Medicinal Plant )
TEC-511	4 - 8 August	5 days	High Density Crop Production and Canopy Management
TEC-516	18 - 22 August	5 days	Organic Farming
MGT-511	23 - 27 August	5 days	Good Horticultural Practices
TEC - 311 PRT - 315	Every Wednesday Date: 5th, 12th, 19th, 26th	3 - 7 days	Exclusively for women: (i) Pesticides - Importance and Usage precautions (ii) Innovative Home Fruit and Vegetable Growing
<b>September 2015</b>			
PRT - 314: Level 1 PRT - 713: Level 2 PRT - 721: Level 3	Every Monday Date: 7th, 14th, 21st, 28th	Level 1: 3 days Level 2: 7 days Level 3: 15 days	Innovative Nursery Raising Techniques of Horticultural Crops Options 5: (Vegetable / Flower / Fruit / Forest / Medicinal Plant )
PRT - 311	2 - 4 September	3 days	Hi-Tech Nursery Management and Production of Quality Planting Material
PRT - 312	7 - 9 September	3 days	Production of High Value Vegetable Crops under Polyhouse
MGT - 511	8 - 12 September	5 days	Good Horticultural Practices
PRT - 711	14 - 20 September	7 days	Production of Vegetable Crops (Tomato/ Cucumber/ Capsicum) under Polyhouse
PRT - 841	8 - 22 September	15 days	Advances in Vegetable Production with special emphasis on Protected Cultivation
MGT - 512	Every Wednesday Date: 2nd, 9th, 16th, 23rd	5 days	Banana Production - One Stop Solution from Lab to Land



For further details please contact

**इंस्टीट्यूट ऑफ़ हॉर्टीकल्चर टेक्नालॉजी**  
**Institute of Horticulture Technology**

D-1, Krishna Apra Building, 3rd floor, Alpha Commercial Belt, Alpha-1, Greater Noida. U.P.  
 Tel.: +91-120-6450597, 2326714, Fax. : +91-120-2326714, Email : training@iht.edu.in,  
 enquiry@iht.edu.in, Website : www.iht.edu.in, Toll Free No. : 1800-11-7474