



ISO 9001:2008 certified

इंस्टीट्यूट ऑफ़ हार्टीकल्चर टेक्नालॉजी Institute of Horticulture Technology

Recognised by Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India

Capitalizing on "Drumstick Cultivation"

Vol.2, No. 7

September-October 2015

Bimonthly

Newsletter

Promoting Drumstick Cultivation to Meet Challenges of Dryland Farming and Climate Change

Drumstick (*Moringa oleifera*) not only withstands long stretches of drought but also tolerate humid weather, thus it is resilient to climate change. The crop is most suitable for dry and arid regions or where the water tables have plummeted to abysmal level. Viewed from the marketing angle, nutraceutical value of drumsticks has caught the imagination of consumers and demand for the produce has spurred thus making cultivation of this crops economically attractive, the young fruit pods, called drumsticks, can be cooked in many ways, often like green beans.

Drumstick cultivation is easy, less time consuming and paying as well. The yield of local cultivars varies from 15-30 kg/plant fetching a price of nearly Rs. 6,000 per quintal.

Institute of Horticulture Technology has taken care of this valuable genetic resource and developed its scientific production technology to benefit the farmer trainees from Chhattisgarh and other states. The trainees were provided with hands on trainings for the production technology of drumsticks at the technology park of IHT



Farmer trainees from Chhattisgarh receiving training on scientific drumstick cultivation



Packaging and presentation adds value to drumstick produce

Innovative three dimension training model developed at I H T

Three dimension trainings consisting of interactive lectures, hands on trainings and exposure visits were conducted by the Institute for participants of different levels coming from different states.

1) Mizoram

Two batches of Horticulture demonstrators participated in three days training programme during October, 2015. These trainings were organized at IHT in collaboration with Department of Horticulture, Mizoram. The training entitled 'Techniques of Raising Nursery of Vegetable Crops' included nursery management, production of quality planting material, soil solarization and sterilization of nursery beds, source of seed and selection of varieties, seed treatment, high-tech nursery raising techniques of high value vegetable crops, etc. Hands on training was also imparted on preparation of nursery beds, solarization and sterilization of media and trays, nursery preparation in hi-tech greenhouse etc.



Horticulture Demonstrators from Mizoram

2) Chhattisgarh

Farmers from Balodabazar district of Chhattisgarh participated in seven days training programme on 'Innovative Production Technology for Horticultural Crops with Special Emphasis on Protected Cultivation'. Farmers were made aware of new techniques in horticulture for production of crops under protected conditions. The topics included were: high tech nursery raising techniques of vegetable crops, production technology of tomato, capsicum and cucumber in poly house, production of important fruit crops such as mango and guava, micro irrigation, vermicomposting and Insect Pest Management.



"Learning by doing" farmers from Chhattisgarh

3) Himachal Pradesh

The state is endowed with a spectrum of climatic conditions from subtropical to cold alpine, making it an appropriate place for fruit and vegetable cultivation of almost all types. Institute of Horticulture Technology organized a seven days training programme for Horticulture Officers from different districts of Himachal Pradesh. The training was conducted on 'Advances in Horticultural Crops' which mainly include latest technological improvements in horticulture along with present status of vegetable industry, moisture conservation techniques, plant propagation and nursery management in horticultural crops, organic production technology, fertigation, design and development of greenhouse and processing and value addition in horticultural crops. The officers showed keen interest particularly in cultivation of crops in hydroponic system.



Hi-Tech Horticulture - Using pro trays
Horticulture Officers from Himachal Pradesh

Important Visitors

1. Sh. Kashmiri Lal ji, National Organizing Secretary of Swadeshi Jagaran Manch visited the Institute during training. In his motivating speech to the farmers he highlighted the importance of farmers and farming in the country. He also emphasized for promotion of the use of Swadeshi (indigenous) products to elevate rural people of the country.



2. Dr. G.C. Shrotriya National Head, Value Added Services IFCO, New Delhi, visited the Institute during Farmers training. He had an interactive lecture with Horticulture Officers from Himachal Pradesh on nutrient management of horticulture crops.



3. Sh. Haokholet Kipgen (Former cabinet minister, Manipur) visited the Institute and showed keen interest to conduct training of farmers from Manipur in Hi-Tech Horticulture.



Feedback of Trainees

"I had good experience in IHT. It is Good working institute with good relationship with trainee."

Mr. Vanlaltluanga
Mizoram

यह संस्था हमारे किसान भाइयों के लिए बहुत लाभकारी है इसके माध्यम से किसान अपनी आर्थिक स्थिति और जीवन स्तर को सुधार सकते हैं, यह एक बहुत ही कार्यगर कार्य है तथा इसे अपनाकर हम खेती में ज्यादा लाभ उठा सकते हैं.

श्री कुंज विहारी
छत्तीसगढ़

"We learnt about hydroponics production of tomato, lettuce, bitter guard, and in different type of polyhouses. Yes we will try our best to implement these upper said techniques. This training was very fruitful & which will pay for us in future for implementation of advanced tech. of cultivation"

Dr. Shiv Bhushan
Himachal Pradesh

S. No.	Participants	Duration (Days)	State	Training Title
1	Horticulture Demonstrators	3	Mizoram	Techniques Of Raising Nursery of Vegetable Crops
2	Progressive Farmers	7	Chhattisgarh	Innovative Production Technology for Horticultural Crops
3	Horticulture Demonstrators	3	Mizoram	Techniques of Raising Nursery of Vegetable Crops
4	Horticulture Officers / SMS	5	Himachal Pradesh	Advances in Horticultural Crops

Tips for Growers:

WORK CALENDER FOR NOVEMBER

- 1) November month is suitable for transplanting of late cauliflower (Pusa Snowball 1, Pusa Snowball K1).
- 2) Application of Sodium Molybdate and Borax @ of 10-15 Kg/ha help to overcome whip tail and browning in cauliflower.
- 3) Imidachlorpid (Confidor, Bayer; Tatamida, Rallis) can be sprayed @ 1ml/lit of water to avoid white fly attack in vegetable crops.
- 4) Prune the Drumstick plants at a height of 30-45 cm and apply paste of Copper Oxychloride pruned surfaces in ratio of 2:1 (two part water and one part copper oxychloride)
- 5) For controlling the inflorescence midge of mango deep ploughing of mango orchards in October-November to expose pupae and diapausing the larvae to sunlight which kills them.
- 6) Soil moisture stress from end of November to end January is recommended for good flowering in mango.



Pruning in drumstick after harvesting

Training Calendar

Course Code	Date - Month	Duration	Course Title
December 2015			
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 - 711	2 - 8 December	7 days	Production of Vegetable Crops (Tomato/ Cucumber/ Capsicum) under Polyhouse
MGT - 511	14 - 18 December	5 days	Good Horticultural Practices
TEC - 516	27 - 31 December	5 days	Organic Farming
PRT - 312	28 - 30 December	3 days	Production of Hi Value Vegetable Crops under Polyhouse
TEC - 512		5 days	Innovative Irrigation and Fertigation Techniques in Greenhouse
TEC - 513	Every Friday Date: 4th, 11th, 18th	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 TEC - 313 MGT - 313 MGT - 314 MGT - 315 MGT - 316	14 - 20 December	3 - 7 days	Skill Certification Courses (i) Greenhouse Technicians (ii) Micro Irrigation Technicians (iii) Gardener - Indoor Plantation (iv) Gardener - Lawn Maintenance (v) Gardener - Pot Maintenance (vi) Precision Horticulture with special emphasis on vegetable production
January 2016			
PRT - 314: Level 1 PRT - 713: Level 2 PRT - 721: Level 3	Every Monday Date: 4th, 11th, 18th	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 - 516	12 - 16 January	5 days	Innovative Nursery Raising Techniques in Vegetables
PRT - 841	5 - 19 January	15 days	Advances in Vegetable Production with special emphasis on Protected Cultivation
PRT - 711	19 - 25 January	7 days	Production of Vegetable Crops (Tomato/ Cucumber/ Capsicum) under Polyhouse
MGT - 511	27 - 31 January	5 days	Good Horticultural Practices
MGT - 512	Every Wednesday Date: 6th, 13th, 20th, 27th	5 days	Banana Production - One Stop Solution from Lab to Land
TEC - 512	Every Friday Date: 1st, 8th, 15th, 29th	5 days	Innovative Irrigation and Fertigation Techniques in Greenhouse
TEC - 513		5 days	Vermicompost – Production and Use
TEC - 515	Every Friday Date: 5th, 12th, 10th, 26th	5 days	Rejuvenation of Senile/ Unproductive Orchards
MGT - 717		7 days	Greenhouse Construction, Management and Production
TEC - 712 TEC - 313 MGT - 313 MGT - 314 MGT - 315 MGT - 316	Every Friday Date: 5th, 12th, 10th, 26th	11 - 17 January	Skill Certification Courses (i) Greenhouse Technicians (ii) Micro Irrigation Technicians (iii) Gardener - Indoor Plantation (iv) Gardener - Lawn Maintenance (v) Gardener - Pot Maintenance (vi) Precision Horticulture with special emphasis on vegetable production



For further details please contact

इंस्टीट्यूट ऑफ 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 Fax. : +91-120-2326714, Email : training@iht.edu.in,
 enquiry@iht.edu.in, Website : www.iht.edu.in, Toll Free No. : 1800-11-7474