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IHT IN COLLABORATION OF HORTICULTURE DEPARTMENT, UTTAR PRADESH CONDUCTS WOMAN EXCLUSIVE TRAINING PROGRAMME

The women play a significant and crucial role in agriculture and allied fields. Realizing the significant role played by women in agriculture, IHT conducts exclusive training for women from different states of India. Adoption of vegetable nursery raising leads to empowerment of farm women and upliftment of their social and financial status. To improve their skills, it is required to impart them trainings in the field of vegetable nursery raising.

To serve the dual purpose of boosting horticulture and improving rural livelihoods, the Uttar Pradesh government has decided to establish 150 Hi-Tech Nurseries (which will be based on Israeli technology) under the MGNREGA scheme. The operation of these Hi-Tech Nurseries will be done by the women of Self Help Groups formed under the Uttar Pradesh State Rural Livelihood Mission. Under the scheme, Hi-Tech Nurseries is being developed in each district to grow fruits like plum, pomegranate, jackfruit, lemon, mango, guava, moringa, dragon-fruit etc. and several vegetables as per the demands based on the local geographical conditions and surrounding areas. The government seeks to grow quality saplings and seeds at the excellence centres as well as hi-tech nurseries to increase production of quality crops.



Hands on Trainings for Women in Plug Type Nursery Seedling Production by IHT Experts.

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In view of this IHT conducted/ woman's training programme on "Hi-Tech Nursery Production Technology" in Bulandshahr, Aligarh and Firozabad. These programmes are conducted in collaboration with Department of Horticulture, Government of Uttar Pradesh.



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Entrepreneurial Skill Development Trainings- Indoor Hydroponics Farming

Hydroponics is a highly advanced and most productive soil-less method of farming for growing veggies in a controlled environment, the vegetables so grown are disease-free, fresh, highly nutritious, and delicious, without using any pesticides, or chemicals. Vegetables can be grown within-in the home (indoor / rooftop/terrace/ground) or can be commercialized for a highly profitable business. Hydroponic farming needs better skills. No person can master an art without being trained. Training will help the grower to know about the plant and its growing techniques.

Training in Hydroponics makes the growers to understand the basic requirements like pH, EC and will also help them in knowing the way to use them. Institute successfully organized 3 days' training program on "Indoor Hydroponics Farming" in May 2023. The participants were well explained about the parameters of nutrients that are required for the optimal growth of plants, healthy nursery production and controlling indoor temperature and lighting schedules to improve plant production.



When Compared to Traditional Soil-Grown Crop Production, The Benefits of Hydroponics Includes:

- Up to 90% more efficient use of water.
- Production increases 3 to 10 times in the same amount of space.
- Many crops can be produced twice as fast in a well-managed hydroponic system.
- Decreasing the time between harvest and consumption increases the nutritional value of the end product.
- Indoor farming in a climate-controlled environment means farms can exist in places where weather and soil conditions are not favorable for traditional food production.
- No chemical weed or pest control products are needed when operating a hydroponic system.



Dr. Somendra Sharma (Senior General and Laparoscopic Surgeon, Alwar- Rajasthan) attended 3 days vertical hydroponic training in IHT Greater Noida



FARMERS - OUTSIDE STATE TECHNICAL EXPOSURE VISITS

It is a well-known fact that the farmers in general have a poor resource base as a result their risk bearing ability is also quite low. The farmers across different size groups are reluctant adopters they adopt new technology only after they are perfectly sure of its success and when they have seen the success through their own eyes. Farmer Exposure Visits provide a platform to the progressive farmers to expand their knowledge and skill by visiting to the places where new technologies and techniques are involved in agriculture and allied sectors.

These Exposure visits takes the farmers beyond their district or state and let them an opportunity to learn and understand several techniques and ways of increasing their income by adopting new package and practices of agriculture. Knowledge and information received through training, demonstration and exposure visits are very helpful and are quite effective in transfer of new technologies. Ratnagiri district of Maharashtra is especially famous for mangoes, more than 65,000 acres of land is under mango cultivation, and the biggest production of Alphonso mangoes in India is in Ratnagiri. There are many mango processing units in Ratnagiri and several mango products are delivered all over India and exported to European and other countries. In view of the importance of the modern technologies for mango production being used in Ratnagiri, IHT organized 7 days' exposure visit for the farmers from different districts of Bihar to Ratnagiri Maharashtra. Farmers visited at Ratnagiri, Maharashtra from 9th to 15th May 2023 involving 67 farmers and accompanying officer(s) from different districts.

The farmers visited various center of excellence for mango, processing units and progressive farmers' fields for upgrading their knowledge. The farmers of Bihar visited to different fruits farms for direct interaction with the progressive farmers of Ratnagiri, Maharashtra. As exposure visits enable farmers from different regions to interact with and learn from each other, allowing them to view practical examples of successful integration of sustainable practices in farming communities like their own.



Farmers interaction with expert (Dr. Mahesh Kulkarni Horticulture Expert- CoE Mango, Dapoli Ratnagiri) about the innovative technologies used for mango production in Ratnagiri Maharashtra



Bihar farmers visit to mango and cashew nuts processing unit during their visit to Ratnagiri Maharashtra



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