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# इंस्टीट्यूट ऑफ हॉर्टीकल्चर टेक्नोलॉजी Institute of Horticulture Technology

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## IHT Launches Liquid Nutrient Solution – Zylophlo for Hydroponic

India is currently importing more than 85% of its exotic fruits & vegetables, creating a growth rate of 15-20% per year. Certainly, hydroponics or CEA can help fuel this growth given the farming expertise that exists in India. Institute of Horticulture Technology has been undertaking trainings Hydroponic Crop Production since many years for prospective entrepreneurs who are mostly from entrepreneurial background. The emphases in such trainings have been the 'Hands on Training Segment' where the trainees get opportunity to do many activities associated with the course practically from nursery raising to harvesting and post-harvest management. The trainees and many other people associated with hydroponic crop production usually demanded readymade recipes with clear cut instructions to use for the hydroponic crop production. Addressing to the need of present and prospective entrepreneurs in Hydroponic crop production, IHT has launched a product name as Zylophlo. It is a liquid nutrient solution filled with all necessary nutrients required for Hydroponic production of vegetables.

It has been studied by Institute of Horticulture Technology that growth of plants is faster and healthier with application of Zylophlo than normal uptake of nutrients from the soil or any other technique of nutrient application in hydroponic cultivation, Zylophlo is a readymade liquid nutrients supplement easy to uptake by plant roots through the water in the form of a aqueous solvent. It is very important for plants to have a solution, containing all essential nutrients, therefore Zylophlo –Liquid Nutrient Solution (LSN) being the easy source of nutrients uptake to the plant grown in hydroponic stand - PERFECT NUTRIENT BALANCE. It contains all essential nutrients required for faster and healthier growth of plants and also enhances vegetative growth of leafy vegetables and fruits bearing capacity of other vegetables.

IHT is working for making hydroponic crop production easy for that training courses of various durations are being offered. Even during lockdown due to Corona pandemics online courses are being continuously offered with a virtual tour of Hydroponic Greenhouse.



**Zylophlo – Solution  
A and Solution B**

## IHT Education and Technology Demonstration

### Demonstration of Tissue Cultured cut- flower Orchid Production in villages of Assam

IHT undertakes number of Technology demonstration projects in varied agro climatic conditions of the country for horticulture crop production with modern technology and finding solutions to the problems faced by the farmers. In this context technology demonstration of protected cultivation of Dendrobium Cut Flowers is being undertaken in farmers' fields with on fields training and hand holding.

During previous months IHT, Mandira, Assam established facilities in the farmers' field and provided them all inputs support services like growing blocks, dendrobium plants, fertilizers and other inputs required for the production of dendrobium cut flower under protected cultivation. The farmers are being provided trainings in various aspects of planting, nutrition and other plant care from planting to harvest by the Institute.



Orchid plant and orchid blocks distribution to farmers



Glimpse of farmers training in Dendrobium plantation in protected structures established by IHT

## Capacity Building Programmes for Technology Adoption Mushroom Cultivation

This online course is aimed at those who would like to work in the industry, or set up their own commercial mushroom farm, or those who would like to grow mushrooms for their own consumption. IHT conducting 3 days online course on Mushroom Production Technology, participants from different states of India showed interest in the e-training program. The major components of the course were interactive lectures on – about structure needed for mushroom cultivation and cultivation practices for Button and Oyster type of mushroom, preparation of compost and spawn for mushroom production, methods of seed/spawn sowing in grow bags, casing and methods of casing preparation, methods of irrigation for mushroom cultivation and IPM.



## Commercial Hydroponics

An important course for those having general horticultural knowledge or even interest in hydroponic crop production – all aspects of hydroponics is covered in this well-prepared course from growing to harvesting. This is suitable for hydroponic growers, manufacturers, retailers, suppliers, entrepreneurs and consultants.

Institute successfully organized various one week e-training programs on “Commercial Hydroponics”, for prospective entrepreneurs and students from different states of India and abroad. The participants found the training very informative and a great learning experience. During the training, the trainees are explained well about water quality analysis for open & closed loop, plant nutrition constituents and management, nursery production, seeds identification, climate control in greenhouse, cladding materials, pruning, physiological disorders of hydroponics crops and hydroponic greenhouse pest management etc.



## Nursery Management in Vegetable Crops

Institute of Horticulture Technology also undertaking training programmes for the students on “Nursery Management in Vegetable Crops”. The trainees understand about standard operating procedures to be adopted during Nursery Production, so that healthy and disease free seedlings can be prepared. The major training sessions are on Planting Material, Nursery Production, Plant Propagation, Soil health management, Bed preparation, Moisture conservation, Soil solarization, Irrigation and Fertigation, Disease, Pest and Nutrient Management. The trainees found the program very useful being practical oriented with hand on experience.



The list of e-training programmes will organize in the month of May, 2021 and Upcoming e-Trainings in June, 2021 are summarized as here under:-

S. No.	Title of Trainings	Dates	Duration
1.	Protected Cultivation of Vegetable Crops	10-15 May	1 Week
2.	Commercial Hydroponics	21 May	2 Weeks
3.	Mushroom Cultivation	24-26 May	3 Days
4.	Vegetables Nursery Production	24-29 May	1 Week
5.	Forest Plant Nursery Management	27-29 May	3 Days
6.	Commercial Hydroponics	31 May	1 Week
7.	Horticultural Plant Nursery	07-14 June	1 Week
8.	Landscape Horticulture	14-19 June	1 Week

\*Customized courses Protected Cultivation of Vegetable Crops, Commercial Hydroponics, Mushroom Cultivation, Vegetables Nursery Production, Forest Plant Nursery Management, Commercial Hydroponic also offered on demand.