



**Training Programme  
on  
Protected cultivation of vegetables and  
hybrid seed production under protected  
structures  
(March 14-21, 2017)**

Sponsored by  
INDIAN COUNCIL OF AGRICULTURAL  
RESEARCH, NEW DELHI

**Course Director**

Dr. S.Shankara Hebbar, Principal Scientist

**Course Coordinators**

Dr A.K.Nair, Principal Scientist

Dr , Balakrishna B, Principal Scientist

Dr.Senthil Kumar M., Scientist

DIVISION OF VEGETABLE CROPS  
ICAR-INDIAN INSTITUTE OF  
HORTICULTURAL RESEARCH  
BANGALORE-560089

**Background**

This course is designed to provide knowledge on vegetable cultivation and hybrid vegetable seed production under protected environment. Major advantage of protected cultivation is that we can achieve quantum jump in yield, improve quality, produce during off season and make the vegetables available round the year. It is a precision farming approach to improve the efficiency land, water, labour and other factors of production. To make the venture profitable to the farmer, structure suitable to the climate and crop need to be selected, crops and variety to be identified for the right season and good agricultural practice to be followed to attain higher productivity. Protected structure is essential to produce quality seeds of some sensitive crops, that too hybrids of these crops. Hence this training programme is designed with following objectives.

**Training objectives**

- To impart the knowledge and develop skills on hi-tech vegetable seedling production including grafting in vegetables
- To provide knowledge about cultivation of major vegetables like colour capsicums, tomato, English cucumbers in side the protected structure

- To impart the knowledge and skills of hybrid seed production of tomato, chilli, capsicum, brinjal & onions in protected structures

**Course Content**

Options of protected structure suitable for vegetable growing/seed production, Measurement of temperature, humidity and light inside the greenhouse environment, Hitech-vegetable seedling production, Grafting in vegetables, Media preparation for Hi-tech vegetable nurseries, Pre-plant soil management for growing of vegetables in protected environment, Training and pruning in vegetables, Mulching, irrigation and fertigation for vegetable production, Crops and varieties suitable for protected cultivation, Soilless cultivation, Integrated pests, disease and nematode management in vegetables and hybrid vegetable seed production, Post harvest management and marketing of fresh vegetables, Hybrid seed production techniques in tomato, chilli, brinjal and onion.

**Course duration:** March 14-21, 2017

**Eligibility**

The training course is designed for young technical staff working in ICAR institutes with minimum educational qualification of graduation. Preference will be given to individuals below 45 years of age.

Technical staff interested in gaining knowledge on protected cultivation of vegetables need to apply. The number of participants would be restricted to 20 only on first come first serve basis.

#### Boarding and Lodging

Accommodation will be arranged for the non local participants on sharing basis at the trainees' hostel of the institute at nominal cost for the period of training as well as one day prior and after. Working lunch and intersession tea will be provided free of cost to the participants during the training period by the host institute. All other boarding as well as lodging charges are to be borne by the sponsoring institute of the participants.

#### Travel

Travel cost for the local study tours and field visits will be met by ICAR-IIHR . Travel expenses (TA and DA) to the venue and back are to be borne by the sponsoring institute of the participants as per their entitlement. Bengaluru is well connected by road, rail and air to other parts of the country. IIHR is located about 25 KM from the city center and can be reached by city bus services / auto rikshaws / taxi

#### How to apply

Nomination forms is also be available for download on the website of ICAR-IIHR. Interested candidates can download the same and apply through their respective institute Directors after filling in the details and taking the printout to the Director, Indian Institute of Horticultural Research, Hesaraghatta Lake PO, Bengaluru 560089. Advance nomination copy can be sent by e-mail to [director@iibr.res.in](mailto:director@iibr.res.in) with a copy to [hebbar@iibr.res.in](mailto:hebbar@iibr.res.in)

#### IMPORTANT DATES

Last date to receive application: 31.1.17  
Intimation of Selection : 2.2.2017  
Confirmation of participation by candidates to IIHR: 10.2.2017

#### Contact details:

**The Director**, ICAR – Indian Institute of Horticultural Research, Hesaraghatta Lake, Bengaluru 560089, Karnataka; E-mail: [director@iibr.res.in](mailto:director@iibr.res.in); Website: <http://www.iibr.res.in>; Fax : +91 80 28466291; Phone: +91 80 28466420 – 23  
**Course Director** : Dr. S.Shankara Hebbar, Principal Scientist, Division of Vegetable Crops, ICAR-IIHR, Hesaraghatta lake PO, Bangalore-560089,  
E-mail: [hebbar@iibr.res.in](mailto:hebbar@iibr.res.in);  
Phone: 9449105802

#### Training programme On

Protected cultivation of vegetables and vegetable seed production under protected structures

(March 14-21, 2017)

#### NOMINATION FORMAT

- Name:
- Date of birth:
- Sex: male/female
- Designation:
- Experience (in years):
- Present employer and address:
- Correspondence address:
- Email:
- Fax:
- Phone & Mobile number:
- Whether accommodation is required in the trainees' hostel: Yes / No
- Educational qualifications:

Exam passed	Passing year	Marks/class	University/institution
10 <sup>th</sup> Class			
12 <sup>th</sup> Class			
Degree/JOC			
PG/other			

Date:

Place: Signature of the applicant

**Recommendation of the Forwarding Authority**

Date:

Signature & Seal  
Name & Designation