

Background

The main objective of good nursery management is to supply elite planting material of the highest possible quality for establishment of new orchards. This objective is of the greatest importance since the areas planted are likely to have a long productive life span of several decades. Production and supply of poor planting materials will lead to low yield and causes severe economic losses to planters. So, the selection of good planting materials and strict culling in nursery are the important step. The importance of the best quality planting material as an initial investment is a well realized factor for persons engaged in Horticulture field. So nurseries have great demand for the production of plants, bulbs, rhizomes, suckers and grafts. But in general good quality and assured planting material at reasonable price is not available. So persons having a skill of propagation of plants can go for this avenue as an agro-business of future.

Updating of knowledge and skills of technical personal in this area is very essential for successful conduct and completion of research by scientific personal. Hence the present training programmes aims at imparting the technical staff the basic knowledge about importance of nursery management practices for producing elite, disease free planting material by different propagation methods including tissue culture. The staff will be exposed to practical experience of several techniques in propagation of horticultural crops and also exposed to commercial nurseries who multiply large number of plants and meet the demand of industry.

About ICAR-IIHR

ICAR-Indian Institute of Horticultural Research was established on 5th September, 1967 as a national institute for horticultural research in the country. It is spread over 263 ha of land and has 11 divisions and four sections involved in research, education and extension activities in different facets of horticulture. The Institute has a scientific strength of about 150 scientists drawn from various disciplines



Objectives of the training

- To impart basic knowledge and develop skills about propagating different types of plants by seed, cuttings, budding and grafting, separation, division, layering as well as micro-propagation in commercially viable way
- To provide basic knowledge about tools, equipments and growing structures used in nursery for plant production
- To impart knowledge on establishment of commercial plant tissue culture unit
- To infuse entrepreneurial skills of commercialization of nursery production.



Course content

- Introduction to horticulture nursery management – history, importance and scope of propagation of horticultural nursery management
- Role of nurseries in horticulture development – demand and supply analysis of nursery plants
- Economics and regulations of horticulture nursery management
- Plant nutrition and its management in nursery
- Input management – physical and financial resources
- Selection and maintenance of mother trees, collection of scion wood stick, scion-stock relationship and bud wood certification

- Introduction and use of grafting machine
- Propagation by cuttings, layering, grafting, budding, specialized structures and micro-propagation
- Seed propagation and production
- Use of growth regulators in seed and vegetative propagation
- Bud wood certification, virus indexing and cross protection
- Tissue culture structures, media preparation etc
- Packing and transport of nursery plants
- Management practices of nursery practices record keeping, nursery standards
- Visit to commercial nurseries and tissue culture laboratory

Eligibility

The training course is meant for technical staff working in ICAR institutes/SAUs/CAUs/ICAR funded KVKs. Technical staff associated with production of quality planting material and nursery management will be preferred. There will be no fee for ICAR employees, but a fee of Rs 5000/- will be charged for non-ICAR employees. Maximum of 20 participants will be selected and the number of non-ICAR employees is restricted to 10, with preference being given first to ICAR employees

Venue and duration

Division of Fruit Crops, ICAR-IIHR
13th November to 23rd November

How to apply

Nomination forms will be available for downloading on the website of ICAR-IIHR from 5th January 2017. Interested candidates can download the same and apply through proper channel after completing all the required details. The completed application forms duly endorsed by the Directors of the respective Institutes should be sent to the Director, ICAR-Indian Institute of Horticultural Research, Hessaraghatta Lake PO, Bengaluru- 560089. Advance nomination copy can be sent by e-mail to director@ihr.res.in with copy to satishaj@ihr.res.in

Training programme On

**Propagation and Nursery Management
for Production of Quality Planting
Material**

(13th November to 22nd November, 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 th Class			
12 th Class			
Degree/JOC			
PG/other			

Date:

Place: *Signature of the applicant*

Date: *Recommendation of the Forwarding Authority*

Name & Designation Signature & Seal

Important dates

Last date for receipt of application : 15.10.2017
Intimation of selection : 25.10.2017
Confirmation of participation by candidates to IIHR : 02.11.2017

TA/DA

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. However, travel cost for the local study tour and field visit during the training will be met by ICAR-IIHR

Boarding and Lodging

Trainees will be provided accommodation 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 the programme. Working lunch and inter session 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.

Bengaluru is well connected by road, rail and air to other parts of the country. IIHR is located about 29 km from the main city centre and can be reached by city bus services / auto rickshaws / taxi

Contact Details

The Director,
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OR

Dr J. SATISHA
Principal Scientist & **Course Director**
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**ICAR Sponsored
Training on**



**Propagation and Nursery
Management for Production of
Quality Planting Material**

(13th November to 22nd November, 2017)



**Course Director
Dr. J. SATISHA**

**Course Coordinators
Mr. Chandrakant A. Madhav
Mrs. Anushma L**

**Organized by
Division of Fruit Crops
ICAR-Indian Institute of Horticultural Research
Hesaraghatta Lake, Bengaluru-560089**