



INFORMATION BROCHURE

Model Training Course On

“Integrated Pest Management of Arid Fruit and Vegetable Crops”

(September 2–9, 2019)

Sponsored by

Department of Agriculture Cooperation &
Farmers Welfare,
Ministry of Agriculture & Farmers
Welfare,
Govt. of India, New Delhi

Course Director

Prof. (Dr.) P L Saroj, Director

Course Coordinators

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Sri Ganganagar Road, Beechwal,
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About the Course

India with diversified agro-ecosystems responded spontaneously to the technologies of green revolution with introduction of several components in crop production like developing and adopting high yielding varieties, hybrids, usage of new agro-chemicals and adoption of intensive crop cultivation techniques. Arid and semi-arid horticultural crops are becoming popular for nutritional and health security point of view as they are excellent sources of minerals, vitamins, protein, antioxidants and photochemical. Among the arid and semi-arid horticultural crops ber (*Ziziphus mauritiana*), date palm (*Phoenix dactylifera*), lasora (*Cordia myxa*), aonla (*Emblica officinalis*), bael (*Aegle marmelos*), jamun (*Syzygium cumini*), pomegranate (*Punica granatum*), mulberry (*Morus alba*), khejri (*Prosopis cineraria*), karonda, phalsa, citrus, mosmbi, kinnow, woodapple, drumstick, and cucurbits are the major crops which can be grown easily in arid and semi-arid eco-system of the country. Arid and semi-arid region are marked by abiotic limitations such as high temperature, high potential evapotranspiration, low erratic rainfall, low soil fertility, high wind velocity, poor quality of ground water, etc., which lead to poor crop growth and yield. Apart from the climatic limitations, the biotic factors like insect-pests and diseases are also one of the limiting factor for crop production in hot arid ecosystem. Horticultural crops in arid areas have to encounter with a fast changing growing habitats. Besides these physiological stresses and weather aberrations, crops also have to overcome the biotic stresses posed by pests, i.e. the insects, diseases and weed competitors.

Changes in farming systems and cropping intensities lead to new pest and disease records and changes in their status and earmarking the importance of periodic pest surveillance and monitoring for effective pest management strategies. Appreciably, the arid zone horticultural crops have very long history of their evolution and the continued process of their natural and deliberate selections; have developed elasticity and plasticity in their genomes hence, providing adaptation to varied ecological constraints at a time and space.

Objectives

- Health management of horticultural crops
- Identification of insect-pests and diseases of arid horticultural crops.
- Insect-pest and disease-resistant (HPR) in arid horticultural crops.
- Judicious use of pesticides to control insect-pests, and diseases
- Principles of Integrated Pest Management (IPM) and IDM.
- Cultural practices that maximize biological prevention of pests and diseases
- Organic management practices where and when applicable for pests management.
- Significance of homemade bio-pesticides
- Pest and disease forecasting techniques
- Equipment used for the handling and application of pesticides

Location of Bikaner

ICAR-CIAH, Beechwal, Bikaner is located 12 km away from Railway Station and 8 km from Bus Stand on Bikaner- Ganganagar Highway and is well connected by Road and Rail.

During the month of September, the temperature normally ranges from 25-38°C.

Course duration

September 02–09, 2019

Eligibility

This Model Training Course is meant for the state extension/developmental officers of agriculture and horticulture and KVK scientists of ICAR/SAUs in the area of Horticulture/Crop Protection/Agricultural Extension or any other related Agriculture disciplines. The total number of participants shall be limited to 20. All the applications must be routed through proper channel. There are no course fee charges to participants for attending this training.

Travel, Boarding and Lodging

The boarding, lodging and TA expenses of the selected participants from the State Departments of Agriculture/Horticulture and other related allied state departments will be met from the funds provided by the Ministry of Agriculture as per norms and operational guidelines for organization of Model Training Courses. Participants will be paid to-and-fro fare for journey by train (**strictly III AC**) or bus or other means of transport in vogue as the case may be. Actual TA will be paid on production of a tickets/certificate by the participants. However, the participants coming from ICAR/SAUs/KVKs, the TA and DA expenditure will have to be borne by their

nominating organization/institute, and the boarding and lodging will be provided by the organizers. The participants will be provided accommodation in the Guest Houses/Kisan Hostels of the Institute.

How to apply?

Application for participation in the MTC may be made in the prescribed format as given herewith and forwarded by the competent authority where the candidate is employed. Applicants may send an advance copy if they anticipate delay in forwarding through proper channel. However, the final selection will be made only if the application duly recommended by the competent authority is received. The selected candidates will be intimated after receipt of their application as prescribed data below.

After the candidates are intimated of their selection, they should immediately reply with firm acceptance. Cancellation at the last moment for casual reasons after acceptance is undesirable as it will deprive other eager candidates who could have availed of the opportunity

Important dates

Last date for receipt of the application	20/08/2019
Intimation of Selection	21/08/2019
Participation confirmation by the candidates	22/08/2019

Application form for Participation in MTC

1. Full name (in block letters):
2. Designation:
3. Present employer and address:
4. Address for correspondence (give e-mail, Tel. / Mobile No.):
5. Permanent address:
6. Sex: Male/Female
7. Marital status: Married/unmarried
8. Academic record (Indicate in tabular form examinations passed from B.Sc. degree onwards, Main subjects, Year of passing, Class/ rank/ University/ Institution, Other information):
9. Service experience:
10. Signature of applicant (indicate name of place and date):
11. Recommendation of the forwarding Institute (Signature, date, designation / address):

Certificate

It is certified that the above information was furnished as per the office record and was found correct.

Signature
Designation of sponsoring authority

Applications/nominations may be sent to:

Dr. Shravan M Haldhar
Course Coordinator
Division of Crop Production
ICAR-Central Institute for Arid Horticulture, Beechwal, Bikaner-334 006
Mobile: 09530218711
Email: haldhar80@gmail.com