

## 12. Academic record

Degree	Discipline	Year of passing	Class/ Rank	University/ /Institution
Ph.D.				
Master				
Bachelor				
Other				

Date: \_\_\_\_\_ Signature of the applicant  
Place: \_\_\_\_\_

## 13. Recommendation of the Forwarding Institute/ University

Date: \_\_\_\_\_ Signature  
Name  
Designation

### Certificate

It is certified that the information furnished has been verified from the office records and found correct.

Signature & Designation of the  
Sponsoring Authority



हर कदम, हर डगर  
किसानों का हमसफर  
भारतीय कृषि अनुसंधान परिषद  
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## LOCATION OF BIKANER

The erstwhile Princely state of Bikaner and its capital city Bikaner was founded by Rao Bika (1465-1504 AD.) by the blessings of Goddess Karni Mata in the year 1488 AD. In those days this vast tract of desert was called "Jangaladesh". The desert city of Bikaner is located in north-western Rajasthan. The gaudy palaces, the magnificent fortress and the richly sculptured temples of red and yellow sandstone exemplify some of the finest creations of Rajput culture and tradition. Some major attractions of Bikaner are Junagarh Fort, Camel Research Farm, Lal Garh Palace, Gajner Wild Life Sanctuary, Karni Mata Temple to name a few. 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 October-November, the temperature normally ranges from 25-35°C.



Junagarh Fort, Bikaner

## CORRESPONDENCE

*All correspondences addressed to:*

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*Circular*

## ICAR Sponsored Winter School on Doubling Income Through Advance Approaches for Fruits and Vegetables in the Arid Region

28<sup>th</sup> October to 17<sup>th</sup> November, 2017



Course Director : **Prof. P. L. Saroj**  
Course Coordinators : **Dr. B. D. Sharma**  
: **Dr. M. K. Jatav**



**Organized by**



**ICAR-Central Institute for Arid Horticulture**  
**Sri Ganganagar Road, Beechwal,**  
**Bikaner-334 006, INDIA**

## ABOUT THE COURSE

In India, about 12% of the total geographical area is under hot arid ecosystem, which spreads in Rajasthan, Gujarat, Haryana, Punjab and peninsular India and cold arid region in J & K and Himachal Pradesh. This region is characterized by high and low temperatures, low rainfall, low relative humidity, high potential evapotranspiration, high sunshine, abundant solar energy, sparse vegetation and high wind speed during summer.

Sustainable livelihood of resource poor farmers is the top priority for the nation today. The productivity of various horticulture commodities in arid and semi arid regions are far below than the potential productivity. Hence, sustained and steady growth in rural income is critical for positive impact on living standard of various stakeholders. Recently, our Hon'ble PM has proposed an agenda of doubling the farmers' income by 2022. In this context, the farm income of resource poor farmers in the arid regions could be improved substantially through advance approaches/technologies in the field of fruits & vegetables production and their post harvest management. In doubling the farmers' income, major constraints in fruit and vegetable production of arid ecosystems are; (i) Low crop productivity, (ii) Poor soil conditions and ground water resource, (iii) Yield loss due to abiotic stresses (Low and erratic rainfall) (iv) Low availability of quality plant material (v) Inadequate crop diversification and Post harvest losses (vi) Resource constraint farmer resulting in poor adoption of recommended package of practices (vii) Bio-physical constraints.

However, to double the income of farmers by 2022, in numerical terms would imply restructuring agriculture processes & policy interventions. The net income of farmers can surely be doubled well within the stipulated period by efficient management of water and agri-input, integrated horticulture based farming system, better market price realization and thereby improving productivity of arid horticultural crops.

The Institute since its inception in April, 1993 has conducted several mission oriented research for improvement and development of horticultural and horticulture based cropping system under arid and semi-arid environment and acted as repository of information related to arid horticulture. The Institute has released improved varieties of fruit and vegetable for arid region. Technologies on agro-techniques such as propagation, planting systems, crop geometry, canopy management, plant architecture engineering, fruit growth and development, crop diversification, protected cultivation, moisture conservation techniques, tissue sampling techniques, organic cultivation, tunnel cultivation, fruit based various cropping models, micro-irrigation, fertigation, IPM/IDM have been standardized. Post harvest management and further streamlining them into value added products have been worked out in datepalm, bael, karonda, kachri, pomegranate, snapmelon, ber, ker, lasoda, mulberry, kinnow, aloe vera and vegetable type cactus pear. The Institute is also shouldering the responsibility of the All India Coordinate Research Project on Arid Zone Fruits spread over at eighteen centers in ten states and developed various agro techniques and varieties of arid fruits

The present winter school will try to address the major issues for arid horticultural crops for doubling income through advance approaches for fruit and vegetables in the arid region and disseminate the technologies developed to the participants, so that these can be translated on the farmer's field for optimum utilization of these scarce resources for doubling income of farmers in the arid region. In Arid zone agro-

climate offers a great potential for production of high quality produce, there is great opportunity for production for export. There is great scope for developing high value products from the indigenous produce. The high solar radiation resource in the arid areas provides opportunity for its harvesting by optimization of cropping system models incorporating multi-layer receptor crops. As part of dedicated efforts of ICAR-CIAH along with Coordinating centers of AICRP-AZF, immense information has been generated and the need of the hour is to share information with agricultural scientists/extension worker who are engaged in similar line of work.

## HOW TO APPLY

Eligible and interested candidates may submit application form in prescribed proforma or apply online as per the steps given: 1. Visit the website <http://www.iasri.res.in/cbp> or click on capacity building programme link at <http://icar.org.in> 2. Login using your User Id and Password. To create User ID use "Create New Account" link 3. After login, click on "Participate in Training" link and fill the proforma. Take a printout and send nomination duly forwarded by the competent authority in the prescribed format to Prof. P. L. Saroj, Director, ICAR-CIAH, Beechwal, Bikaner - 334006 alongwith Demand Draft of Rs. 50/- as registration fee (non refundable) in favour of 'ICAR Unit-CIAH payable at Bikaner.

## ELIGIBILITY

Applicant should be Post Graduate in any branch of Horticulture/Agriculture and not working below the rank of Assistant Professor or equivalent in the concerned subject under the NARS or SAUs.

## TRAVEL

Participants will be paid travel fare to and fro by the shortest route restricted to the maximum of AC-II tier fare or bus or any means of transport in vogue, as the case may be, as per the norms & guidelines of ICAR.

## BOARDING AND LODGING

Free Boarding and Lodging (shared) will be provided to participants only during the training programme by ICAR-CIAH, Bikaner

**NUMBER OF PARTICIPANTS : 25**

## IMPORTANT DATES:

Last date of nomination : 30.09.2017  
Communication of selection : 03.10.2017

## VENUE

ICAR-CIAH, Beechwal, Bikaner- 334 006 (Rajasthan),

## Winter School on "Doubling income through advance approaches for fruit & vegetables in the arid region"

From 28<sup>th</sup> Oct. to 17<sup>th</sup> Nov., 2017

## Application format for participation in Winter School

**1. Full Name (in block letter):** \_\_\_\_\_

**2. Designation :** \_\_\_\_\_

**3. Present employer address:** \_\_\_\_\_

**4. Address to which:** \_\_\_\_\_  
reply should be sent \_\_\_\_\_  
(in block letter) \_\_\_\_\_

**5. Present :** \_\_\_\_\_  
**Address** \_\_\_\_\_

**6. Date of Birth:** \_\_\_\_\_

**7. Sex:** \_\_\_\_\_

**8. Teaching/Research/ Professional experience** (mention post held during last five years and number of research publications) : \_\_\_\_\_

**9. Marital status : Married/Unmarried**

**10. Mention if you have participated in any Summer/ Winter School/ Short course, etc. during the last (5) years under ICAR/ Other organizations**

**11. Draft/Postal Order No. .... dated** \_\_\_\_\_  
of Rs. 50/- (in favour of ICAR Unit CIAH, payable at Bikaner) towards registration (Non Refundable),