ORGANIZING COMMITTEE

Dr. Trilochan Mohapatra, Secretary, DARE & Director General, ICAR, New Delhi

Dr. Anand Kumar Singh, Deputy Director General (Horticultural Science), ICAR, New Delhi

National Advisory Committee

Padam Shree Dr. K. L. Chadha, Former DDG (HS), ICAR, New Delhi

Dr. Kirti Singh, Former Chairman, ASRB, New Delhi

Dr. S. P. Ghosh, Former DDG(HS), ICAR, New Delhi

Dr. G. Kalloo, Former DDG(HS), ICAR, New Delhi

Dr. H. P. Singh, Former DDG(HS), ICAR, New Delhi

Dr. N. K. Krishnakumar, Regional Representative (SCA), Bioversity International, New Delhi

Dr. T. A. More, Former Vice Chancellor, MPKV, Rahuri

Prof. B. R. Chhipa, Vice Chancellor, SKRAU, Bikaner

Dr. Balraj Singh, Vice Chancellor, AU, Jodhpur

Dr. S. K. Malhotra, Commissioner Agriculture, GOI, Krishi Bhawan, New Delhi

Dr. B. N. S. Murthy, Commissioner Horticulture, GOI, Krishi Bhawan, New Delhi

Dr. W. S. Dhillon, ADG (HS-I), ICAR, New Delhi

Dr. T. Janakiram, ADG (HS-II), ICAR, New Delhi

Dr. O. P. Pareek, Former Director, ICAR-CIAH, Bikaner

Dr. G. B. Raturi. Former Director. ICAR-CIAH. Bikaner

Dr. S. K. Sharma, Former Director, ICAR-CIAH, Bikaner

Dr. M R Dinesh, Director, ICAR-IIHR, Bengaluru

Dr. O. P. Yadav, Director, ICAR-CAZRI, Jodhpur

Dr. Vishal Nath, Director, ICAR-NRC on Litchi, Muzaffarpur

Dr. B. Singh, Director, ICAR-IIVR, Varanasi

Dr. S. Rajan, Director, ICAR-CISH, Lucknow Dr. D. B. Singh, Director, ICAR-CITH, Srinagar

Dr. M. S. Ladaniya, Director, ICAR-CICR, Nagpur

Dr. S. D. Sawant, Director, ICAR-NRCG, Pune

Dr. Gopal Lal, Director, ICAR-NRCSS, Ajmer

Dr. N. V. Patil, Director, ICAR-NRC on Camel, Bikaner

Prof. P. L. Saroj, Director, ICAR-CIAH, Bikaner

Conference Organizing Committee

Prof. P. L. Saroj, Director, ICAR-CIAH, Bikaner

Dr. B. D. Sharma, Head, Division of Crop Production, ICAR-CIAH, Bikaner

Dr. Sanjay Singh, Head, ICAR-CIAHRS, CHES, Godhra

Dr. D. Singh, Head Division of Crop Improvement, ICAR-CIAH, Bikaner

Dr. R. S. Singh, Principal Scientist, ICAR-CIAH, Bikaner



Dr. P. L. Nehra, Director Research, SKRAU, Bikaner

Dr. N. D. Yadava, Head, CAZRI, RRS, Bikaner

Dr. A. K. Patel. Head. ARC. CSWRI. Bikaner

Dr. S. C. Mehta, I/c EPC, Bikaner

Dr. I. M. Verma, Head, DOH, COA, SKRAU, Bikaner

Dr. P. K. Yadav, Professor (Horticulture), COA, SKRAU, Bikaner

Dr. Udaibhan, Deputy Director, (Agril.), GOR, Bikaner

Dr. R. Bhargava, Principal Scientist & I/c PHT, ICAR-CIAH, Bikaner

Dr. D. K. Samadia, Principal Scientist, & I/c HRD & TOT, ICAR-CIAH, Bikaner

Dr. A. K. Singh, Principal Scientist, CHES, Godhra

Dr. S. K. Maheshwari, Principal Scientist, ICAR-CIAH, Bikaner

Dr. Hare Krishna, Principal Scientist, ICAR-CIAH, Bikaner

Dr. S. R. Meena, Principal Scientist, ICAR-CIAH, Bikaner

Dr. M. K. Jatav. Principal Scientist, ICAR-CIAH, Bikaner

Dr. P. P. Singh, Principal Scientist, ICAR-CIAH, Bikaner

Dr. Kanak Lata, Head, KVK, Panchmahal, Gujarat

Dr. V V. Apparao, Sr. Scientist CHES, Godhra

Dr. D. S. Mishra, Sr. Scientist CHES, Godhra

Dr. B. R. Choudhary, Sr. Scientist, ICAR-CIAH, Bikaner

Dr. D. K. Sarolia, Sr. Scientist, ICAR-CIAH, Bikaner

mportant dates

Registration Fee

Date of first circular: Last date of submission of abstract: Communication of acceptance of abstract: Last date of full length Invited papers: Last date of receipt of registration fee:

Submission of 26th January 2018 15th June 2018 abstract 15th July 2018 Extended 30th August 2018 30th September 2018 upto

31-July-2018

Category	Upto September 2018 (Rs.)	After September 2018 (Rs.)					
ISAH member	3000	4000					
Non-ISAH Member	4000	5000					
Students/Research Scholar	1500	2000					
Deviate the first tells and the solid through DD as beginning Observation for a second Operation							

Registration fee is to be paid through DD or bankers Cheque in favour of Organizing Secretary payable at Bikaner.

Registration fee does not include accommodation charges. Limited accommodation can be arranged in ICAR/University guest houses. Most of the delegates will have to stay in the hotels and private guest houses. A wide range of hotels and private guest houses are available in Bikaner city. The likely tariffs are as follows:

---Rs. 2000.00 to 6000.00 per day

Guest Houses-----Rs. 1000.00 to 2000.00 per day

The hotel accommodation could be arranged on request and payment basis.







National Conference on Arid Horticulture for Enhancing Productivity and Economic Empowerment (27-29 October, 2018)

Organized by

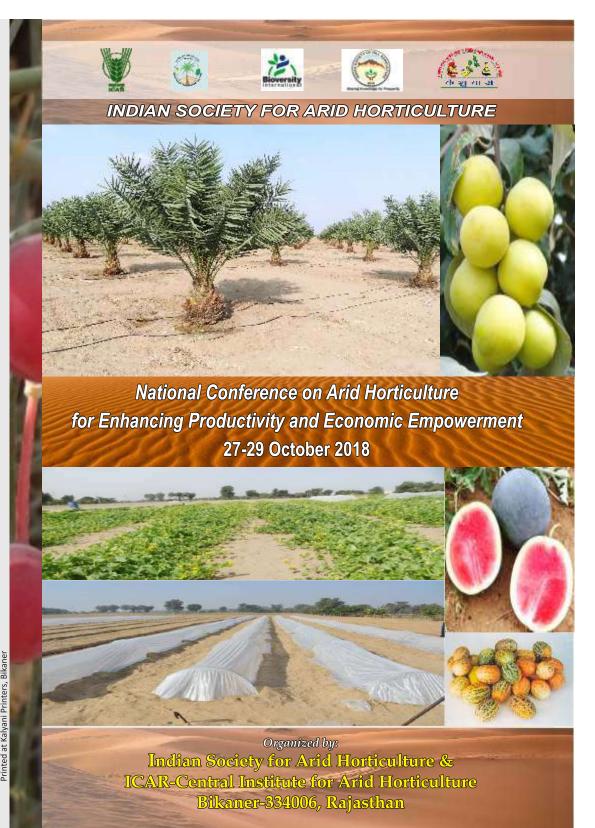
Indian Society for Arid Horticulture

ICAR-Central Institute for Arid Horticulture, Bikaner (Rajasthan)

REGISTRATION FORM

ame							
esignation							
ender:	Male/Female,		Date of Birt	:h			
iscipline/Subje	ect						
pecialization							
rganization							
ffice Address-							
lobile No	, E	mail					
tle of the Paper							
terested in (tid	ck your choice): Oral()	Po	ster ()		
ccommodatio	n Required	(Yes/N	o)				
ayment Detail I am en	s iclosing a DD/BC		date	d			
or Rs	in	favour o	f Organizing	Secreta	ry		
ayable at Bikaner as Registration Fee							
ny other inforr	nation						

Signature



Preamble

In India, about 169 mha (53%) of the total geographical area is under arid and semi-arid regions, spread over different parts of the country. Out of this, 39.54 mha is under hot and cold arid ecosystem which spreads in Rajasthan, Gujarat, Haryana, Punjab and peninsular India and cold arid in J & K and Himachal Pradesh. The hot arid region is characterized by extremes of temperature, low and erratic rainfall, low precipitation, high potential evapo-transpiration, abundant solar energy, sparse vegetation and high wind speed. Soils are dry for most part of the year, having aridic moisture regime. These regions are most fragile and have productivity constraints, because of various biotic and abiotic stresses. The traditional horticulture in these resource-poor areas have provided only sustenance to both land owners and large population of the land less people whose livelihood depends on rainfed farming. However, under the changed scenario the focus has shifted from sustenance to remunerative horticulture. The increased population pressure aggravates the problems in various production systems in arid and semi-arid areas, affecting the food and livelihood security. This necessitates the sustainable management of available resources and to adapt innovations made in recent past in the field of horticultural so as to address the future challenges. In fact horticultural crops of the arid and semi-arid regions have tremendous potential which needs to be harnessed for further economic arid environmental benefits. At this stage, it was felt that there is need to have interaction among stakeholders to implement technologies for improving horticultural productivity and profitability in arid and semi-arid regions. The conference intends to provide an unique platform for scientists, extension workers along with policy planners, agri-entrepreneurs, NGOs and farmers, etc to focus on important issues concerning the empowerment and livelihood security of the inhabitants of these regions.

It is a pleasure to inform that ICAR-Central Institute for Arid Horticulture, Bikaner (Rajasthan) is completing 25 years of its existence, therefore, during Silver Jubilee Year-2018, the Indian Society for Arid Horticulture (ISAH) and ICAR-Central Institute for Arid Horticulture, Bikaner (Rajasthan) are jointly organizing a three days National Conference on Arid Horticulture for Enhancing Productivity and Economic Empowerment during 27-29 October, 2018 at ICAR-CIAH, Bikaner (Rajasthan).

About Bikaner

The erstwhile Princely state of Bikaner and its capital city Bikaner was founded by Rao Bikaji (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 Jangladesh. The desert city of Bikaner is located in northwestern part of Rajasthan. The gaudy palaces, the magnificent fortress and rich sculptured temples of red and yellow stone exemplify some of the finest creations of Rajput culture and traditions. Some major attractions of Bikaner are Junagarh Fort, Camel Research Farm, Lalgarh Palace, Gainer Wild Life Sanctuary, Karni Mata



Temple to name a few. ICAR-Central Institute for Arid Horticulture, Bikaner is located 12 KM away from Railway Station and 8 KM from Roadways Bus Stand on Bikaner-Ganganagar Highway and is well connected by road, rail and air. During the month of October-November, the climate is pleasant and the temperature normally ranges from 25-29° C.

About ICAR-CIAH, Bikaner

Realizing the potential of horticulture in arid and semi-arid regions, the Department of Agricultural Research and Education, Ministry of Agriculture and Farmers Welfare, Govt. of India approved establishment of a National Research Centre for Arid Horticulture (NRCAH) in 1993. Considering the peculiar agro climatic conditions of arid and semi-arid regions, the large number of horticultural



crops and a wide range of disciplines that are involved to develop usable technologies for horticultural sustenance for the region, holistic approach could not be taken under the limited mandate of NRCAH. Therefore on the recommendation of a High Power Committee NRCAH was upgraded into an Institute namely ICAR-Central Institute for Arid Horticulture w.e.f. 27-09-2000 and to consolidate the research in the region, the CHES, Godhra was also merged with the CIAH w.e.f. 01-10-2000 so that the issue of horticulture in arid and semi-arid regions can be addressed in a holistic manner. For quick dissemination of technologies and capacity building of farmers, a KVK was also established in 2005 in Panchmahal district of Gujarat.

The ICAR-CIAH since its inception in April 1993 has conducted several mission oriented research for improvement of horticultural crops and development of horticulture based cropping system under arid and semi-arid environment. The Institute has released 39 varieties of arid and semi-arid horticultural crops, besides agro-techniques such as propagation, planting system, crop geometry, canopy management, fruit growth and development, crop diversification, protected cultivation, soil and moisture conservation techniques, organic cultivation, micro-irrigation, fertigation techniques and development of several value added products of date palm have been standardized in mandated horticultural crops. Biotic and abiotic stress mangement modules of arid and semi-arid horticultural crops are in operational mode. The Institute is also shouldering the responsibility of All India Coordinated Research Project on Arid Zone Fruits having 18 Centers in spread 10 states.

Technical Sessions

There will be 12 technical sessions spanning over three days. Each session will have 3-4 invited lectures from the specialized speakers followed by oral presentation by distinguished speakers, poster presentations will also be organized session wise.

The participants from different parts of the country are expected to deliberate during post presentation discussions to share their knowledge and experiences to finalize the future strategies for improving production, productivity and utilization of arid and semi-arid horticultural crops for economic empowerment and livelihood security of the inhabitants in these regions.

Conference Themes

1. Arid Horticulture: Retrospect and Prospects

- Status of arid and semi-arid horticulture in India
- Resource inventory, constraints and innovations in arid and semi-arid horticulture
- Strategy and way forward

2. Genetic Resources Management, improvement and bio-technological interventions

Germplasm characterization and utilization of arid and semi-arid horticultural crops

- Augmenting input efficient horticultural crops through novel plant breeding approaches
- Improvement in arid and semi-arid horticultural crops through conventional breeding techniques
- Biotechnological interventions to harness higher yield under constrained natural resources of horticultural crops

3. Innovative approaches in productivity enhancement

- Innovations in production management for enhancing productivity
- Smart delivery system of water and nutrients in horticultural crops and cropping systems
- Disease and pest management approaches to boost the productivity and production of horticultural crops.
- Hi-tech interventions/Protected cultivation in horticultural crops

4. Approaches for production of quality seed and planting materials

- Quality and health standards of seed and planting materials
- Novel methods for production of seed and planting materials
- Nursery practices and handling of planting material
- Growing structures, plant containers and hydroponics

5. Organic Farming: Potential and Prospects

- Scope of organic farming in arid and semi-arid regions
- Certification system
- Quality evaluation of organic produce and safety concern

6. Integrated cropping/farming system

- Integrated farming system
- Agro-horti-pasture system to boost income in arid region
- Fruit based diversification and risk management
- Tree-Crop interaction and Microclimate moderation

7. Advances in abiotic stress management

- Impact of drought, heat, frost and salinity on plant productivity
- Mitigation strategies to manage abiotic stresses
- Climate resilient horticulture

8. Biotic Stress Management

- Surveillance of pest and diseases
- IPM/IDM and bio-control measures to manage diseases and pests
- Host -Pest/Pathogen Interaction
- New molecules to manage biotic stresses
- Nematode and Weed management

9. Post Harvest Management and Value addition

- Post harvest handling of arid horticultural produce
- Codex standards
- Processing of produce
- Marketing intelligence

10. Policies and Trade for Sustainable Development of Arid and Semi-Arid Horticulture

Government initiatives to promote arid horticulture

- Infrastructure development for promotion of arid horticulture
- Economics, trade and marketing of produce

11. Arid horticulture based eco-tourism

- Aesthetic value and environment protection
- Policy and planning of ecotourism
- Arid ornamentals and urban horticulture

12. Technology dissemination, Impact assessment and farmers empowerment

- Innovation in transfer of technology
- Impact of advance technologies in improving horticulture scenario in arid region
- Economic empowerment and livelihood security

Invitation

The organizing Committee of "National Conference on Arid Horticulture for Enhancing Productivity and Economic Empowerment" cordially invites you to participate in this seminar at ICAR-CIAH, Bikaner (Rajasthan) during 27-29 October 2018. The seminar aims to create a platform for exchange of ideas and thoughts among the scientific fraternity, entrepreneurs, farmers, growers, etc from ICAR institutions, SAUs, KVKs, line departments and related organizations from different parts of the country who have been associated with arid and semi-arid horticultural development in the country.

Poster presentations

The organizers also invite focused research abstracts on areas of any aspect of arid and semi-arid horticulture to be presented as poster paper also. Space of 90 cm (Height) x 70 cm (Width) will be provided for each poster. Posters pertaining to all the sessions will be exhibited at the designated poster session areas in the conference venue. Apart from the abstracts from the researchers, students are encouraged to submit abstracts of research carried out during their Post Graduate research on related theme of the conference.

Guidelines for submission of Abstract and Papers

Abstracts are invited on any of the above themes or other related areas. The abstracts should not exceed 300 words, should be typed in MS word format with double space leaving the 2.5 cm margin on all sides on A-4 size paper. The font should be Times New Roman in 12 pt size. 3-5 key words should be given below the abstracts. The title of the article should be in bold letters along with complete address of the authors including e-mails and cell number of corresponding author. The abstracts should be sent through e-mail at drbrijeshdutt@yahoo.co.in. A committee will review the abstracts and decide about the nature of presentation (oral/poster). Authors will be intimated regarding the acceptance of the papers.

Local visit

Post conference excursion will be conducted on paid basis, please contact to Dr. S R. Meena (email: srm.extn@gmail.com; Mobile No. 9414261238).

Venue

ICAR-Central Institute for Arid Horticulture, Beechwal, Bikaner-334006 (Rajasthan)





