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Sh. Ramdhan Raigar, Comptroller, AU, Kota, Raj.
Smt. Mamta Kumari Tiwari, Registrar, AU, Kota, Raj.
Er. V.K. Jain, Estate Officer, AU, Kota, Raj.

PATRON

Prof. D. C. Joshi, Hon'ble Vice-Chancellor, Agriculture University, Kota, Rajasthan, India

ORGANIZING COMMITTEE

Chairman

Dr. I. B. Maurya,
Dean, College of Horticulture and Forestry,
Jhalarapatan, Jhalawar

Organizing Secretary

Dr. Jitendra Singh, Professor & Head, Fruit Science,
CHF, Jhalarapatan, Jhalawar

Co-ordinator

Dr. Ashutosh Mishra, Prof. & Head, FLS, CHF, Jhalawar
Dr. P.S. Chauhan, Assoc. Prof. & Head, FBTL,
CHF, Jhalawar
Dr. S. B. S. Pandey, Assoc. Prof. & Head, SAF,
CHF, Jhalawar
Dr. Priyanka Solanki, Asstt. Prof., Agri. Busi. Mgt.
CHF, Jhalawar

VENUE

The College of Horticulture & Forestry, Jhalarapatan, Jhalawar is a constituent unit of Agriculture University, Kota. The college is located in Jhalarapatan city in the suburb of Jhalawar. The Jhalawar lies 85 km away from Kota, by road-ways en-route to Indore-Bhopal Highway. The nearest railway station is Ramganj Mandi, 25 km away from Jhalawar and the next nearest railway station is Kota Junction which is 85 km away from Jhalawar. Jhalawar is well connected by rail/bus from other parts of the country.

ABOUT JHALAWAR

Jhalawar, the princely state of *Jhalas* was founded by Jhala Zalim Singh. It is situated in South-Eastern region of Rajasthan at the edge of Malwa plateau. In Agricultural-Horticultural ecology Jhalawar district has the dominance of crops like mandarin, coriander, garlic, poppy, soybean among other crops. Jhalawar district has parched rocky terrain along its geographical spread. The black cotton soil is dominant soil type which supports growing of very many crops.

Jhalawar district receives on an average 950 mm annual rainfall. It is fed by rivers like Kali Sindh, Parvati, Chhoti Kali Sindh and Niwaz. During the summer the temperature is around 45°C and during winter it deeps down to about 1°C.

Jhalawar has standing on tourist map of the country. Gagron Fort, Chandrabhaga Temple, Gagron Dargah, Kolvi Caves, Sun Temple, Chandkheri Jain Temple and Jain Temple Unhel, Nageshwar are important places worth visiting.

WEATHER

During January, the mean maximum temperature is around 20°C and the mean minimum around 05°C. The atmosphere remains cool during winter period and woollen clothes are required for protection from prevailing weather.

ACCOMMODATION

Limited accommodation is available at the College/Govt guest houses. Accommodation at affordable rate is available at hotels. The tariff rates for Non-AC hotels are around Rs. 1000 - 1500 a day and that for AC hotels Rs. 2000 - 2500 a day. Delegates are advised to make their own arrangement for accommodation at their own expenses but all sorts of assistance will be rendered to the worthy delegates in getting reservation for accommodation in hotels.

IMPORTANT DATES

Last date for submission of paper January 15, 2020
Communication of acceptance of paper January 20, 2020



ADDRESS FOR CORRESPONDENCE

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National Seminar

(Under NAHEP, ICAR New Delhi, India)

on

SMART-HORTICULTURE

January 30-31, 2020



Venue : College of Horticulture and Forestry, Jhalawar

Organised by :



NAHEP



Agriculture University, Kota

Campus : College of Horticulture and Forestry,
Jhalarapatan, Jhalawar - 326 023, Rajasthan
India

INTRODUCTION

India with its agro-climatic diversity amenable grows a large variety of horticultural crops. They play an important role in Indian economy contributing about 30 per cent of GDP from agriculture. Horticulture sector, which includes fruits, vegetables, floriculture, spices, plantation crops, medicinal plants, nuts and tuber crops, among others, covers 25.49 million hectares of land (2018-19) with the total production of 313.85 million tonnes.

In spite of strenuous production strength, India's share in the global market is still nearly 1 per cent only. There is a need to hasten global market share. It calls for adoption of technology led measures. Smart horticulture practices become especially inevitable in present day socio-economic scenario when pressure on agricultural resources especially land and water are becoming challenging day after day. At the global level, 11 million km land area has to cater the need of 83 per cent global consumption of food caloric supply and 67 per cent global consumption of food protein supply from plant based foods. The situation further aggravates when earth sphere witness rise of temperature. During 20th century, there has been rise of around 15cm in the sea level globally. Global surface temperature increased by 0.74± 1.8°C during last 100 years. As per IPCC report the range of emission of CO₂ will be around 541 to 970 ppm by the 2100 as against the present level of 392 ppm.

In all such scenario, technological innovation led development is much sought after aspect. Smart horticulture is one such viable option. This is expected to lead horticulture in revolutionary way. Smart horticulture uses modern technology to increase the quantity and quality of agricultural produce. It harnesses the techniques of GPS, soil scanning, data management, ICT, autonomous robots, drones or UAVs, sensors and the IoT technologies etc. By precisely measuring variations within a field and adapting the strategy accordingly, farmers can greatly increase the effectiveness of inputs and resources, and use them more selectively.

To make agrarian journey successful on time scale in rampantly progressing scientific world, with a view to have open market competitive bounteous and quality production, it is proposed to organize a national seminar on "Smart-Horticulture". The seminar would provide a forum to the scientist community involved in the thematic field to deliberately discuss issues and exchange the idea to proceed on to the desired field. It is sure to strengthen the capacity building of scientific manpower engaged in the field, in handling horticulture in smart resilient way.

The Agriculture University, Kota is the host institution of the seminar. It is among the 17th Universities of the country which has received Innovation Grant under the National Agriculture Higher Education Project (NAHEP) as a part of offering quality education to

strengthen the move of academic institutions towards excellence.

The College of Horticulture and Forestry, Jhalawar shall be the venue of the seminar. It has its modest beginning during 2004 with UG degree programme in Horticulture and Forestry disciplines. Now, the college offers PG and Ph.D degree programmes also separately across the faculty of horticulture and forestry. The college spreads over 120 hectare area and holds good basic infrastructural facilities amenable to cater quality education. It has recognition as one of the premier institutions of the country among agricultural institutions on the map of the country. The alumni of the college had been flag bearer in many national level examinations conducted by ICAR and other institutions as well.

THEME

It is proposed to organize the national seminar on the broader theme of Smart- Horticulture out of grants-in-aid received under NAHEP, ICAR, New Delhi, India.

The seminar shall have its focus on technological led innovations to make the horticulture competitive in vibrant open market scenario under following sub-themes:

Innovative Production Approaches in Horticulture: Soil-less culture in fruits and vegetables production; Protected Cultivation/ Hi-Tech Horticulture; Climate Smart Horticulture System; Fertigation; Remote Sensing and use of Artificial Intelligence; Biotechnological Interventions in Horticulture; Effective utilization of resources and adoption of technologies.

Organic Farming: Resource conservation; Good agricultural practices, Integrated cropping system; Roof top farming; Urban and peri-urban horticulture.

Post Harvest Management: Emerging technologies for Post harvest management and value addition of horticultural crops; Cool-chain, Value chain and Supply chain management.

Marketing and Business: Marketing, Distribution, Retailing and Innovations in Agribusiness, Public Private Partnership, Farmer Producer Organization, e-NAM, Mobile Apps.

SUBMISSION OF ABSTRACT/FULL LENGTH PAPER

Abstracts/full length papers are invited from functionaries in the field of Horticulture/allied areas on the broad sub- themes of the seminar. These will be peer reviewed and selected for presentation during the seminar. Abstract prepared in MS Word not exceeding 250 words in 12 font size in Times New Roman, typed in 1.5 space and full length paper not exceeding 6-8 typed pages with font and spacing similar to abstract containing heading in capital letters along with author(s) name (no designation) and affiliation in small letters should be submitted to the Organizing Secretary through e-mail or by post in hard as well soft copies. One author can submit at the most two papers/abstracts.

PRESENTATION

During the seminar sub-theme wise lead lectures will be arranged exclusively through invitation from eminent scientists in the field of horticulture and allied areas.

FORMAT FOR PAPER/ABSTRACT

The paper should be prepared in order of : Title (all caps), Author(s) & Affiliation, Abstract, Introduction, Materials & Methods, Results and Discussions, and References. The reference may be cited in the manner of: Pandey, Swapnil; Singh, Jitendra and Maurya, I.B. (2015) Effect of black polythene mulch on growth and yield of Winter Dawn strawberry by improving root zone temperature. *Indian Journal of Agri. Sciences*, 85 (9): 1219-22.

LANGUAGE

English will be the official language of the seminar.

PROGRAMME

January 30, 2020 : Registration, inauguration, technical and poster sessions.

January 31, 2020 : Technical, poster and plenary sessions.



Chandrabhaga Temple, Jhalrapatan

REGISTRATION FEES

The registration form, duly filled in by the participant along with demand draft, of specified fee, drawn in favour of Dean, College of Horticulture and Forestry, Jhalawar, payable at Jhalawar should be submitted well in time.

Category	Early Bird Registration upto 15.01.2020 (Rs.)	On Spot Registration (Rs.)
Teachers/Scientists	2000	2500
Accompanying person	1000	1500
Students	500	1000
Private Organization/ Industry	3000	3500

NATIONAL SEMINAR

(Under NAHEP, ICAR New Delhi, India)

on

SMART-HORTICULTURE

January 30-31, 2020

Registration Form

Name : _____

Designation : _____

Gender (Male/Female) : _____

Category (SC/ST/OBC/Disabled/General) : _____

Organization : _____

Address : _____

State _____ Pin Code _____

Phone _____ (Off.) _____ (Res.)

Mobile _____

E-mail : _____

Title of abstract /paper _____

Whether intends to submit (paper/abstract) _____

Sub- theme of abstract/paper _____

Accompanying person, if any _____

Accommodation choice: Pl. tick (✓) which you like

AC Hotel: { }

Non-AC Hotel: { }

Single bed/ double bed: { }

Registration fee: Amount (Rs.) _____

DD. No. and Date: _____

Date : _____

Place : _____ Signature of Delegate

N.B.

- Photocopied registration form is acceptable.
- Payment can be made online through NEFT/ RTGS as per furnished detail :

Account Name :

Dean, College of Horticulture & Forestry, Jhalawar

Bank: ICICI Bank, Patni Complex, Jhalawar

Account No.: 686501419185

IFSC Code: ICIC0006865