



CIAH NEWSLETTER

ICAR-CENTRAL INSTITUTE FOR ARID HORTICULTURE Beechwal, Bikaner-334 006, Rajasthan

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Organization of Kisan Sammelan



Sh. Kailash Choudhary, Hon'ble Union Minister of State, Agriculture and Farmers Welfare GIO, addressing during *Kisan Sammelan* at ICAR-CIAH, Bikaner on 30.08.2019. Sh. Arjun Ram Meghwal, Hon'ble Minister of State, Parliamentary Affairs, Heavy Industries and Public Enterprises GIO. Dr. Vishwanath Meghawal, Ex-MLA; Sh. Satya Prakash, President BJP, Bikaner; Prof. P. L. Saroj, ICAR-CIAH, Bikaner and Dr. T. Janakiram, ADG (HS), ICAR on the dias.

Organization of National Rajbhasha Workshop



Sh. Arjun Ram Meghwal, Hon'ble Minister of State, Parliamentary Affairs, Heavy Industries and Public Enterprises GIO, addressing during inaugural function of the National Rajbhasha Workshop at ICAR-CIAH, Bikaner on 30.08.2019

■ From the Director's Desk



It gives me immense pleasure in bringing out this six monthly newsletter of the ICAR-Central Institute for Arid Horticulture, Bikaner. Ever since its inception on 1st April 1993, the Institute, is dedicated to serve the farmers and stake holders of arid and semi-arid regions by developing technologies, introduction of genotypes of crops from iso-climatic conditions, package and practices of arid horticultural crops, development of quality planting materials for the farmers under adverse climatic condition with limited resources. Various improved varieties of the arid fruits and vegetables have been released with their proper package and practices for the benefits of the farmers. The Institute conducted a large number of demonstrations and trainings/ capacity building programmes, farmer interactions, field visit, Kisan Sammelan, etc., for the benefit of the farmers. A Kisan Sammelan/ Scientists'-Farmers Interaction Meet and National Rajbhasha Workshop were organized in the Institute as mega event Sh. Kailash Chaudhary, Hon'ble Union Minister of State, Agriculture and Farmers' Welfare, Government of India was the Chief Guest of this programme and Sh. Arjun Ram Meghwal, Union Minister of State, Parliamentary Affair, Heavy Industries and Public Enterprises, Government of India was the Special Guest on this occassion. The major achievements/ activites of the Institute during the reported period are being highlighted through this six monthly Newsletter in brief.

> (P.L.Saroj) Director

■ Research Spectrums

At H. Q., Bikaner:

Registration of watermelon germplasm: Identified an andromonoecious plant of watermelon from segeregating population and homogenized through repeated inbreeding.

The developed material (AHW/BR-5; IC-0627526) possess unique trait *i.e.* stable andromonoecious sex form and able to set fruits under net house conditions without pollinators and produced viable seeds, round shaped fruits having red flesh and green rind with devoid of stripes. Fruits ready for harvesting in 80-85 DAS. This material (AHW/BR-5; IC-



0627526) was registered with ICAR-NBPGR, New Delhi under INGR 19081 for stable andromonoecious trait (B.R. Choudhary, S.M. Haldhar and P.L. Saroj).

Quality improvement in fruits of pomegranate through bagging technique: The fruit cracking is the major problem in

pomegranate production in hot arid regions of the country. Hence, an experiment was conducted for the management of fruit cracking and quality production of pomegranate in hot arid climatic conditions. In the experiment, pomegranate fruits of cv. Bhagwa were covered with different bagging materials. Among all the treatments, perforated



transparent poly bags were significantly reduced fruit cracking (10.0%) as against control (26.67%). It also resulted in highest marketable yield of fruits with bright red colour fruits followed by white paper bags, non woven fabric bags and lowest in control (R. Kumar, J.S. Gora, R.K. Meena and Ramyashree DGS).

Superior growth, yield and fruit quality of *Satgudi* **on rough lemon rootstock:** Nine sweet orange cultivars (Washington Navel, Blood Red, Newhall Navel, Jaffa, Satgudi, Hamlin,

Mosambi, Pineapple and Valencia Olinda) were tested & evaluated at the Institute on rough lemon rootstock for growth, yield and fruit quality attributes under hot arid climatic conditions. The Satgudi was found significantly



superior on rough lemon rootstock as compared to other cultivars of sweet orange varieties under hot arid climatic conditions (R. Kumar, J.S. Gora and B.D. Sharma).

Effect on quality of mandarin cv. Fremont of different

rootstocks: The interspecific Mandarin hybrid cv. 'Fremont' was evaluated at the Institute on Rough lemon, Karna Khatta, Pectinifera and Troyer rootstocks under hot arid climatic conditions. All fruit quality parameters of



mandarin cv. Fremont were observed best on rootstock of pectinifera (J.S. Gora, R. Kumar and B.D. Sharma).

A selection of Sehjan (Moringa oleifera) "AHMO-1-4s":

Selection of Sehjan (Moringa oleifera) "AHMO-1-4s" is versatile plant for vegetable culinary. It was selected among the identified elite lines. It is high yielding and produces medium sized pods of excellent quality. It is drought tolerant, fast growing and took 3-4 m height in one



year. For nursery raising, freshly harvested seeds of mature pods are used for sowing during the first week of June - August (D. K. Samadia, A. K. Verma, S. M. Haldhar and Chet Ram).

Standardization technique for reduction of browning in dry dates (*chhuhara*): Dry dates (*chhuhara*) prepared from the doka stage fruits are prone to browning due to enzymatic as well as non-enzymatic reactions. To reduce this problem, some chemicals like 1,2 and 5 % Sodium formaldehyde sulfoxylate (SFS), 1% Potassium metabisulfate (KMS) and 1 % Ascorbic

acid were applied as pretreatment during hot water treatment to fruits of doka stage of dates. The fruits were boiled for 8-10 minutes in boiling water. After that, the fruits were drained well, dried with fan at room temperature and placed in drier's tray at 60-65 °C for



18-20 hours. Among various treatments 2 % SFS was found to be effective in good color development in dry dates (*chhuhara*) of cv. Barhee and Zahidi after drying them (V. R. Reddy, R. S. Singh, R. K. Meena, M. K. Berwal and S. R. Meena).

Evaluation of sweet potato varieties/germplasm: Eleven

varieties and two local germplasm collected from Bikaner district were evaluated to assess their performance in hot arid climatic conditions. Among 13 collections, four germplasm, namely Co-3-4, Sree Rethna, Local 1 and Local 2 performed well and were found high yielding which may be exploited for



the cultivation in hot arid climatic conditions of the western Rajasthan (MK Jatav and Ramyashree DGS).

Selection of promising genotypes (CHESCA-4) of custard

apple: The promising genotypes (CHESCA-4) of custard apple was selected and evaluated under field conditions (2009-2018). The selection performed better in respect of flowering, fruiting and fruit quality attributes under



rainfed conditions of hot semi-arid ecosystem

Selection of promising genotypes (CHESW-6) of wood apple: The selected genotype "CHESW-6" of wood apple has round shape fruit with average 375.00 g weight. The plant is dwarf with lanky growth of shoots. Suitable for planting under rain fed conditions of western India. This genotype was found superior in fruit quality like TSS, acidity, fruit aroma in comparison to other available variety of woo dapple.



Selection of promising genotypes-CHESB-27 (IC-06293867) of bael: This genotype is a heavy yielder, fruit weight ranged between 1.35-1.50 kg, fruit size 18.20 cm x15.40 cm, TSS pulp

between 1.35-1.50 kg, fruit size 18.20 cm x15.40 cm, TSS pulp 37.15°B. It is medium maturing variety (3rd week of May). The fruits of this genotype are having good



flavour and aroma. It is highly suitable for processing and value addition (A. K. Singh, Sanjay Singh, P. L. Saroj and R. S. Singh).

Development of Hyb. 4/3 of Guava: The trees of Hyb. 4/3 of Guava are moderately tall with good spreading, loose canopy, prolific early bearer, fruits are roundish in shape and medium in size. The colour of fruit peel is yellowish pink while pulp is deep pink at maturity/ripened stage



and keeping quality of fruits is good at ambient storage temperature (D. S. Mishra).

Mutant variety of tomato "Thar Annant": The tomato variety "Thar Annant" was developed through induced mutation. This mutant variety has superior phenotypic traits, homogenized based horticultural attributes and



performance. It has high flesh thickness (0.85cm), deep red fruit colour with rich lycopene content (7.9mg/100g), medium acidity (0.42%) under hot semi-arid climatic conditions. It is distinguished by indeterminate plant habit, fruit size, fruit color

and yield potential over the parent. It is highly tolerant to heat stress and drought with high yield potential (4.2 - 4.9 kg/plant) under hot semi-arid climatic conditions. The variety is highly suitable for table, processing and export purposes (Lalu Prasad).

Identification of promising genotypes of vegetable cowpea:

CHESVC-01: The pods of this genotype are very attractive parrot green in colour, average pod length is 66cm and girth is 3.4cm with pod weight of 45.2g. The fresh tender green pods were harvested at 55-60 DAS.

CHESVC-33: This genotype is photo insensitive with attractive green colour pods, average pod length (26.50cm) and girth (2.5cm) with pod weight of 9.65g and an average yield is 1.4kg/plant of fresh pods (Gangadhara K, L.P.Yadav and V.V. Apparao).

■ Farmers' programmes and extension activities

(a) At H.Q. Bikaner

- During the reported period of time, 12 on/off campus farmers' training programmes, 39 FLDs (of improved varieties of arid vegetables & potato) and 25 technological method demonstrations were conducted.
- More than 700 farmers, students, field workers, SMS, dignitaries, NGO personnel were visited to the Institute.
- Conducted a "Farmer,s School" on improved variety of kachri (AHK-119) during kharif season, 2019-20. The Institute participated and displayed 03 technological exhibitions at ICAR-CIAH, Bikaner on 30.08.2019 and at KVK, Nagaur-I on 03.09.2019, at ICAR-CIAH, Bikaner on 28.09.2019 and at Jaipur on 17.12.2019.



Sh. Kailash Choudhary, Hon'ble State Minister of Agriculture and Farmers Welfare and Sh. Arjun Ram Meghwal, Hon'ble State Minister of Parliamentary Affairs, Heavy Industry and Public Enterprises, Government of India visiting exhibition stall of Institute during *Kisan Sammelan*/Scientists'-Farmers Interaction Meet held at ICAR-CIAH, Bikaner (Rajasthan) on 30.08.2019.

- Twenty six on/off campus Research- Extension Farmers-Interface-Meetings were held with visiting farmers at the Institute/ at their fields.
- Eleven diagnostic & advisory visits were made to farmer's fields and interacted with them.
- More than 200 lectures on arid horticultural technologies were delivered during the different farmers' programmes.
- Some of the commodity (like kachri, snapmelon, ridgegoud, cluster bean, ber, khejri, potato, etc.) interest based farmers groups were developed.
- The various activities like visits, meetings/group discussion training, interaction, etc., were also organized to empower the farm women in the field of arid horticulture.
- More than 100 technological online/off line/digital advisory, guidance/Qns.-Ans, etc., services were also provided to farmers/clients.
- Six hundred and forty copies of technical literature were distributed among the farmers/clients during different extension programmes / activities organized at the Institute or outside of the Institute during reported period of time (S. R. Meena, D. K. Samadia, D. K Sarolia and R. C. Balai).
- Programmes and activities under MGMG: The Institute organized several extension programmes and activities under Mera Gaon Mera Gaurav (MGMG) Scheme in adopted villages of the Institute like distribution of seeds and planting materials, fertilizers, technical literature, and other items useful in farming. The farmer's fields were visited and held meeting/ Sangosthi, discussions, training, FLDs, method demonstrations, mobile advisory, etc., to create knowledge and awareness among the farmers of adopted villages about improved production technologies of arid horticultural crops.

(b) At CHES, Vejalpur, Godhra (Gujarat)

The regional station of the Institute, CHES, Vejalpur, Godhra (Gujarat) organized 30 on/off campus farmers' training programmes and 02 technological exhibitions at Mahatma Ashram, Ghandhinagar, Gujarat and at KVK, Panchmahals ,Gujarat during 28.01.2020 to 31.01.2020 and 21.01.2020 to 22.01.2020, respectively

(c) At KVK, Panchmahal, Gujarat

KVK-Panchmahal, Godhra (Gujarat) working under this Institute conducted 06 On Farm Trials (OFT), 21 front Line Demonstrations (FLD) with 225 method demonstrations on various crops, 26 training programs, two Field Days, two Farmer Scientist interaction, two Kisan Goshthi, one Exhibition, 11 Film Shows, 245 farmers visited to KVK, three SGH meeting, four farmers and a review meeting, 91 visits to farmers field, 195 advisory services, one animal health camp, 33 diagnostic visit, 177 lectures in training programme, three radio talk, and two TV talk. Moreover, KVK organized 02 technological exhibitions at KVK, Panchmahal itself and 01 exhibition in Sanjivav village of Panchmahal district, Gujarat during the reported period of time.



KVK launching of National Animal Disease Control and National Artificial insemination Programme on 11.09.2019 at KVK, Panchmahal.

■ HRD Programmes / Activities

(a) At HQ Bikaner

• Organization of Kisan Sammelan/ Scientists'-Farmers Interaction Meet: A mega Kisan Sammelan / Scientists'-Farmers Interaction Meet was organized in the Institute on 30.08.2019 in which about 600 farmers, scientists, experts, students and other dignitaries participated. Sh. Kailash Chaudhary, Hon'ble Union Minister of State, Agriculture and Farmers' Welfare, Government of India was the Chief Guest and Sh. Arjun Ram Meghwal, Union Minister of State, Parliamentary Affair, Heavy Industries and Public Enterprises, Government of India was the Special Chief Guest of the programme. Dr. R. P. Singh, VC, SKRAU; Bikaner was also a Special Guest of this programme. Other respected dignitaries presented during this programme were, Dr. T. Janakiram, ADG (HS-I), ICAR, New Delhi; Sh. Vishwanath Meghwal, Ex- MLA, Khjuwala, Bikaner; Sh. Sumit Godara, MLA, Lunkarnsar, Bikaner; Dr. O.P. Yadav, ICAR-CAZRI, Jodhpur, Prof. (Dr.) P. L.Saroj, Director, ICAR-CIAH, Bikaner; Dr. Gopal Lal, Director, ICAR-NRCSS, Ajmer; Smt. Sima Chopra, Director (Rajbhash), New Delhi; Sh. Madhu Acharya, Senior Journalist and I/c Editor, Dainik Bhaskar, Bikaner, etc.



Sh. Kailash Choudhary, Hon'ble Union Minister of State, Agriculture and Farmers Welfare, GIO, and Sh. Arjun Ram Meghwal, Hon'ble Minister of State, Parliamentary Affairs, Heavy Industry and Public Enterprises, Government of India on dias along with other dignitaries during the Kisan Sammelan at ICAR-CIAH, Bikaner (Rajasthan).

• Organization of National Rajbhasha Workshop ICAR - CIAH, Bikaner: National workshop of language officers of ICAR was organized in the Institute on "Changing dimensions of official language in ICAR" from 30.08.19 to 31.08.2019 in which more than 100 Rajbhasha officers and other dignitaries participated. Sh. Kailash Chaudhary, Hon'ble Union Minister of State Agriculture and Farmers' Welfare, Government of India was the Chief Guest of this programme. Sh. Arjun Ram Meghwal, Union Minister of State, Parliamentary Affair, Heavy Industries and Public Enterprises, Government of India was the Special Chief Guest this programme.



Sh. Kailash Choudhary, Hon'ble Union Minister of State, Agriculture and Farmers Welfare, GIO and Sh. Arjun Ram Meghwal, Hon'ble Minister of State, Parliamentary Affairs, Heavy Industry and Public Enterprises, Government of India addressing during the inaugural function of National Rajbhasha Workshop held at ICAR-CIAH, Bikaner from 30.08.19 to 31.08.2019.

• Organization National Conference on "Arid Horticulture": A National Conference on "Arid Horticulture: A way forward for sustainable production and nutritional security" was organized jointly by University of Agricultural Sciences, Raichur (Karnataka) and ICAR-Central Institute for Arid Horticulture, Bikaner (Rajasthan) 28-30th November, 2019 at UAS, Raichur (Karnataka) where more than 250 scientists/teachers/ students/ farmers and personnel from growers associations participated. The AICRP on Arid Zone Fruits workers were also participated in this conference.



Dignitaries on dias during inaugural function of the National Conference on "Arid Horticulture: A way forward for sustainable production and nutritional security" 2019 at UAS, Raichur (Karnataka).

• Organization of the International training Programme:

The Institute organized an International training programme on "Hi-tech propagation and production of fruits and vegetables in arid and semi-arid agroecosystem" at the Institute from 09.08.2019 to 18.08.2019 in which 05



scientists/officers of African countries (like Morocco, Nigeria, Zambia and Ghana) participated.

- Organization of training programmed on "Pomegranate production technology": Three days training programme on "Integrated production technologies for pomegranate under dry lands" was organized from on 26th to 28th August, 2019 at the Institute for a group of farmers came from Bhuj district of Gujarat.
- Organization of Model Training: Eight Days Model Training on "Integrated Pests Management of arid fruit and vegetable crops" was organized for 19 extension personnel/field workers at the Institute from 02.09.2019 to 09.09.2019.
- Organization of a training programme on IPM: Five days training programme on "Integrated Pest's Management in arid horticultural crop" was organized at the Institute for a group of 30 farmers of ATMA Jhunjhunu (Raj.) from 16.09.2019 to 20.09.2019.
- Organization of the workshop: One day workshop on

"Technologies developed for horticultural crops for the arid regions" was organized in the Institute on 15.11.19 in which more than 150 farmers and scientists/officials of ICAR sister organization, KVKs,



State Govt. Departments, etc., participated

• Organization of trainings and inputs distribution under SCSP Scheme: During the reported period of time, 05 training programmes were organized in which more than 200 SC farmers/ farm women participated. The horticultural/ agricultural inputs (like fertilizers, seeds of improved varieties of arid vegetables and spices, kitchen gardening vegetable packets, etc. for FLDs/growing on their fields) and items like milk canes, seed bins, technical folders, etc were also distributed/provided among above SC trainee farmers/ farm women under SCSP Scheme.



- In addition to above, Director and eleven scientists of the Institute participated in 15 different National seminars/conferences, workshops, symposium, etc., organized by different organization/Institutions in the country during the reported period of time.
- Organization of Diwas / Day/ Abhiyan/ Campaign, Meet, Week, Fortnight, etc.

At CIAH, H.Q. Bikaner.

- Celebration of Sadbhawana Diwas: Sadbhawana Diwas was celebrated in the Institute and all staff participated in it on 20.08.2019
- Observance of Parthenium Awareness Week: The Institute observed the "Parthenium Awareness Week" from 22.08.2019 to 22.08.2019.
- Organization of Safai Abhiyan: The Institute implemented the Safai Abhiyan from 19.08.2019 to 23.08.2019 and carried out cleaning work in the Institute's premises and outside the Institute
- Organization Jal Sakti Abhiyan: As per the instructions of Government of India, the Institute initiated "Jal Sakti Abhiyan" from 01.07.2019 to 15.09.2019 to create awareness and knowledge among the farmers/clients/people to save precious water and conservation of water resources for future.
- Observance of Visitors Week: The Institute observed "visitors week" from 05.09.202119 to 12.09.2019.
- Organization of Swachhta Hi Sewa Abhiyan: As per the instructions of Government of India, the Institute initiated "Swachhta Hi Sewa Abhiyan" from 11.09.2019 to 02.10.2019 during which cleaning works was under taken in the Institute, surroundings, railway station, bus stand, local market, Kachchi Basti, villages, etc.



 Observance of *Hindi Pakhawara*: Hindi Pakhawara was observed in the Institute from 14.09.2019 to 30.09.2019 during which various activities/competitions were conducted.



The children paticipating in drawing competition during Hindi Pakhwada.

• Celebration of Foundation Day of the Institute: The Foundation Day of the Institute (ICAR-CIAH, Bikaner) was celebrated on 28.09.2019. Prof. Vijay Paul Sharma, Chairman of Commission for Agricultural Costs and Prices, Ministry of Agriculture and Farmer's Welfare, GOI, New Delhi, was the Chief Guest of this function. More than 200 farmers, students, scientists, filed workers and other dignitaries participated in this programme.



The Chief Guest Prof. Vijay Paul Sharma was addressing on the occasion of the celebration of Foundation Day of the Institute on 28.09.2019.

• Celebration of Mahatma Gandhi Jaynti: Mahatma Gandhi Jayanti was celebrated in the Institute on 02.010.2019.



- Observance of Vigilance Awareness Week: The Institute observed the "Vigilance Week" from 28.10.2019 to 02.11.2019.
- Observance of Communal Harmony Week: As per the letter of National Foundation for Communal Harmony, New Delhi, ICAR-CIAH, Bikaner observed/celebrated the "Communal Harmony Week" from 19.11.2019 to 25.11.2019.
- Celebration of Agriculture Education Day: Agriculture Education Day was celebrated in the Institute on 03.12.2019 in which > 100 students (KV-II, Bikaner), scientists, teachers, and other people participated.
- Celebration of World Soil Heath Day: The Institute celebrated the "World Soil Heath Day" on 05.12.2019 at farmers' fields in Meghasar village of Bikaner district in which > 100 farmers and scientists participated.

At KVK, Panchmahal, Gujarat

During the reported period of time, KVK, Panchamaha district (Gujarat) organized 03 field days, 03 animal health camps, world soil health day, world Yoga Diwas, Hindi Diwas, Kisan Diwas, Mahila Kisan Diwas, International women day, Swachchta Abhiyan, etc.

■ Visit of VIPs/Dignitaries at the Institute

At H.Q. Bikaner.

- Ms. Sushila Sivar, Jila Pramukh, Bikaner visited the Institute on 06.08.2019.
- Sh. Kailash Chaudhary, Hon'ble Union Minister of State, Agriculture and Farmers Welfare, GIO, visited the Institute on 30.08.2019.



Sh. Kailash Choudhary, Hon'ble Union Minister of State, Agriculture and Farmers Welfare, GIO, visited research farm of the Institute and discussed with Scientists of the Institute about the arid horticultural technologies developed.

- Sh. Arjun Ram Meghwal, Hon'ble Union Minister of State, Parliamentary Affair, Heavy Industries and Public Enterprises, Government of India visited the Institute on 30.08.2019
- Dr. R. P. Singh, VC, SKRAU; Bikaner visited the Institute on 30.08.2019.
- Dr. T. Janakiram, ADG (HS-I), ICAR, New Delh visited the Institute on 30.08.2019.
- Sh. Vishwanath Meghwal, Ex- MLA, Khjuwala, Bikaner visited the Institute on 30.08.2019
- Sh. Sumit Godara, MLA, Lunkarnsar, Bikaner visited the Institute on 30.08.2019
- Dr. O.P. Yadav, Director, ICAR-CAZRI, Jodhpur visited the

- Institute on 30.08.2019.
- Dr. Gopal Lal, Director, ICAR- NRCSS, Ajmer visited the Institute on 30.08.2019
- Smt. Seema Chopra, Director (Rajbhasha), ICAR, New Delhi visited the Institute on 30.08.2019
- Sh. Madhu Acharya, Senior Journalist and I/c Editor, Dainik Bhaskar, Bikaner visited the Institute on 30.08.2019.
- Prof. Vijay Paul Sharma, Chairman, Agriculture Cost and Price Commission, New Delhi visited the Institute on 28.09.2019
- Prof. Vishnu Sharma, Vice-Chancellor, RAJUVAS, Bikaner visited the Institute on 28.09.2019
- Prof. R.P. Singh, Vice-Chancellor, SKRAU, Bikaner visited the Institute on 28.09.2019
- Prof. Jeet Singh Sandhu, Vice-Chancellor, SKNAU, Jobner visited the Institute on 16 Nov., 2019

At CHES, Vejalpur, Godhra (Gujarat).

- Dr. K. S. Khokhar, Ex-Vice Chancellor, C.C.S.H.A.U., Hisar, Haryana visited the CHES on 26. 11.2019.
- Dr. Sudhir Raizada, Emirates Scientist, N.B.F.G.R. Luckhnow, U.P. visited the station on 26.11.2019
- Dr. Lakhan Singh, Director ATARI, Pune, Maharastra visited the Station on 26.11.2019
- Dr. M.C.Jain, Dean, COA, Kota Rajasthan, visited the Station on 02. 12.2019

■ Important Meetings held.

- IRC Meeting was held at ICAR-CIAH, Regional Station Vejalpur, Godhra (Gujarat) during 08-09th July, 2019 under the Chairmanship of Prof. (Dr.) P. L. Saroj, Director of the Institute. The research achievements of the scientist for the year 2018-19 were presented, discussed and the targets/works were finalized for the next year (2019-20).
- IJSC Meeting on 21.08.2019
- Hindi Meeting on 24.12.2019

■ Visits / Meeting / programmes attended / participated by the Director of the Institute.

- (a) Prof. (Dr.) P. L Saroj, Director of the Institute attended/participated in the following meetings/programmes/workshops/confereces, etc., during July December, 2019.
- Participated in the Brainstorming Session on "Technologies Innovation and Strategies for Farmer's Prosperity in Rajasthan" at ICAR New Delhi on 13th July, 2019.
- Participated in the Foundation Day and Award Ceremony programme at ICAR, New Delhi on 16th July, 2019.
- Visited ICAR-CAZRI, Jodhpur to attend meeting Chaired by Sh. Kailash Chaudhary, Hon'ble Union Minister of State, Agriculture and Farmers' Welfare, Government of India on 12.08.2019.
- Attended the meeting of State Seed Sub Committee at Pant Krishi Bhavan, Jaipur on 23.08.2019.
- Attended the meeting as Chairman of Interview Committee for the selection of SMS at KVK Panchmahal, Vejalpur, Godhra (Gujarat) on 25.09.2019.
- Attended the meeting as Nominee of Hon'ble President in the recruitment of teachers at BHU, Varanasi during 04-05 Oct., 2019.

- Participated in the valedictory function of ICAR Zonal Tournament as Chief Guest on 18th November 2019 at ICAR-CWSRI, Avikanagar, Tonk (Rajasthan).
- Participated in the 3rd Global Meet at ICAR- NRCSS, Ajmer during 01-03 Dec., 2019.
- Participated in the "Progressive Horticulture Conclave-2019" at ICAR-IISR, Lucknow during 08-10 December, 2019 and presented lead lecture on arid horticulture.
- (b) Prof. (Dr.) P. L. Saroj, Director ICAR-CIAH, visited the following AICRP centres/other places during July December, 2019.
- Visited and inspected different projects under the scheme of the AICRP on AZF Centre of Bawal (Haryana) during 16-18 July, 2019 and Jhalrapatan, Jhalawad (Rajasthan).

■ Awards and Peer Recognitions.

- Prof. (Dr.) P. L. Saroj, received Life Time Achievement Award from Hi-tech Horticulture Society during 3rd Global Meet on Science and Technology at ICAR-NRCSS, Ajmer on 1st Dec., 2019
- Dr. S. M. Haldhar, received the Young Scientist Award from Agriculture Today Group at New Delhi by Sh. N. S. Tomar, Union Minister of Agriculture and Farmers Welfare, Govt. of India on 11th July, 2019.
- Dr. S. M. Haldhar, received the Young Scientist Award from Dr. B. Vasantharaj David Foundation at Chennai dated 17th July, 2019.
- Dr. Anita Meena, received Young Scientist Award From Society for Scientific Development in Agriculture and Technology during International Conference on Global Research Initiatives for sustainable agriculture allied sciences during 20-22th October, 2019 at ICAR-NAARM, Hyderabad.
- Dr. Ajay Kumar Verma, received Bharat Gaurav Puraskar from Best Citizen Publishing House, New Delhi.
- Dr. R. S. Singh, received best oral presentation award during the ISEE-National Seminar held at SKRAU, Bikaner from 14-16th November, 2019.
- Dr. M. K. Jatav, recieved best oral presentation award for paper potato varieties "Performance in nontraditional area of north-western Rajasthan of India" in Progressive Horticulture Conclave during 8-10th December, 2019 at Lucknow organized by ISHRD in collaboration with ICAR-CISH, Lucknow (UP).
- Dr. D. S. Mishra, received best oral presentation award for the paper "Hybridization and evaluation of F1 hybrids in guava under semi-arid ecosystem" of central Gujarat in Progressive Horticulture Conclave-2019 on held at ICAR-IISR, Lucknow during 8-10th December, 2019.
- Dr. D. S. Mishra, received best poster paper award-2019 for the paper "Seed germination of fruit crops: a review" published in HortFlora Research Spectrum, 1(3):199-201.
- Dr. Ramkesh Meena, received best oral paper presentation award for paper "Diversified uses of date palm fruits for nutrition and livelihood security in arid region" in National seminar held at SKRAU, Bikaner during 14-16th November, 2019.
- Dr. Vikas Yadav, received best oral presentation by presenting "Thar Gaurav: A new wood apple variety for dry land" in

- International seminar on modern agriculture approaches in 21st century, 22-23rd November, 2019 at Lucknow (UP).
- Ms. Ramyashree DGS, received First Prize in shotput at ICAR inter institutions sports (West Zone) held at ICAR-CSWRI, Avikanagar, during 14-18th November, 2019.
- Ms. Ramyashree DGS, received Second Prize in discus throw at ICAR inter institutions sports (West Zone) held at ICAR-CSWRI, Avikanagar, during 14-18th November, 2019.

■ Staff News

Appointment/joining/transfer:

- Sh. B.M. Patelia, TO (Field) relieved in the afternoon of 05.10.2019 from Institute headquarters ICAR-CIAH, Bikaner on transfer to Regional Station CHES, Vejalpur, Godhra.
- Dr. P. P. Singh, Principal Scientist (Vegetable Science) relieved from the Institute in the afternoon of 09.12.2019 on transfer to IIFSR, Meerut.
- Sh. A.V. Dhobi, STO (Overseer) joined at Institute headquarters ICAR-CIAH, Bikaner on 02.09.2019 on transfer from Regional Station CHES, Vejalpur, Godhra.

Promotion/Assessment:

- Sh. H.S. Patel, Assistant, Level 6, probation was cleared on 22.01.2018.
- Dr. Balu Ram Choudhary, Sr. Scientist (Horticulture Vegetable Science), ICAR-CIAH, Bikaner promoted to next higher grade / Rs37400-67000 + RGP of Rs.9000/- (Revised level-13 A) with effect from 27.06.2017.
- Dr. Ramkesh Meena, Scientist, (Horticulture-Fruit Science)
 CIAH, promoted to next higher grade / Rs15600-39100 +
 RGP of Rs.8000/- (Revised level-12) with effect from 06.06.2017.
- Shri Rawat Singh, LDC, ICAR-CIAH, Bikaner promoted to the post of Upper Division Clerk in the Level-4 (Pre-revised Pay Band-1/Rs.5200-20200 with Grade Pay of Rs.2400) at ICAR-CIAH, Bikaner with effect from 06.11.2019.
- Shri Gulla Ram, LDC, ICAR-CIAH, Bikaner promoted from level 2 to level 3 with effect from 12.09.2016.
- Shri Shiv Lal, SSS, ICAR-CIAH, Bikaner promoted from level 2 to level 3 with effect from 02.07.2016.
- Shri Mohan Lal, SSS, ICAR-CIAH, Bikaner promoted from level 2 to level 3 with effect from 10.02.2017.
- Shri Manoj Kumar Vyas, SSS ICAR- CIAH, Bikaner promoted from level 2 to level 3 with effect from 10.11.2017.

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: Miss Ramyashree D.G.S., Scientist

: Sh. P. P. Pareek, ACTO

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शुष्क बागवानी समाचार



भाकृ अनुप-केन्द्रीय शुष्क बागवानी संस्थान बीन्नान, बीनानेर - ३३४ ००६, (रानस्थान)

अंक-19 क्रमांक-2 जुलाई-दिसम्बर, 2019

किसान सम्मेलन का आयोजन



मंचासीन, श्री कैलाश चौधरी, माननीय केंद्रीय कृषि और किसान कल्याण राज्य मंत्री, भारत सरकार, 30.08.19 को भाकृअनुप—केशुबासं, बीकानेर (राजस्थान) में किसान सम्मेलन के दौरान संबोधित करते हुए। श्री अर्जुन राम मेघवाल, माननीय संसदीय कार्य, भारी उद्योग और सार्वजनिक उद्यम राज्य मंत्री, भारत सरकार, डॉ. विश्वनाथ मेघवाल, पूर्व विधायक, श्री सत्यप्रकाश आचार्य, अध्यक्ष भाजपा, बीकानेर, डॉ. टी. जानकीराम, एडीजी (बा.वि), भाकृअनुप, प्रो. पी. एल. सरोज, निदेशक, केशुबासं तथा अन्य गणमान्य अतिथि।

राष्ट्रीय राजभाषा कार्यशाला का आयोजन



दिनांक 30.08.2019 को संस्थान में आयोजित भाकृअनुप के उत्तरी भारतीय संस्थानों के राजभाषा अधिकारियों की राष्ट्रीय हिंदी कार्यशाला को संबोधित करते हुए श्री अर्जुन राम मेघवाल, माननीय संसदीय कार्य, भारी उद्योग और सार्वजनिक उद्यम राज्य मंत्री, भारत सरकार, I

निदेशक की कलम से....



भाकृअनुप-केन्द्रीय शुष्क बागवानी संस्थान, बीकानेर के इस छमाही समाचार पत्र को प्रकाशित करते हुए मुझे बहुत खुशी होती है। 1 अप्रैल 1993 को अपनी स्थापना के बाद से, संस्थान, प्रौद्योगिकियों का विकास, विलग-जलवायु परिस्थितियों से फसलों के जननप्रकारों का प्रवेशन, शुष्क बागवानी फसलों के कार्य और क्रियाओं, सीमित संसाधनों के साथ प्रतिकूल जलवायु स्थिति के अंतर्गत किसानों के लिए गुणवत्तायुक्त पौध सामग्री के विकास के द्वारा शुष्क और अर्ध-शुष्क क्षेत्रों के किसानों और हितधारकों की सेवा करने के लिए समर्पित है। किसानों के लाभ के लिए शुष्क फलों और सिब्जयों की विभिन्न उन्नत किस्मों को उनके उचित कृषिकार्य और क्रियाओं के साथ जारी किया गया है। संस्थान ने किसानों के लाभ के लिए बड़ी संख्या में प्रदर्शन और प्रशिक्षण /क्षमता निर्माण कार्यक्रम, किसान परिचर्चा, प्रक्षेत्र भ्रमण, किसान सम्मेलन, आदि आयोजित किए हैं। संस्थान में वृहद् कार्यक्रम के रूप में किसान सम्मेलन / वैज्ञानिक –िकसान–संवाद बैठक और राष्ट्रीय राजभाषा कार्यशाला का आयोजन किया गया। इस अवसर पर श्री कैलाश चौधरी, माननीय केंद्रीय कृषि और किसान कल्याण राज्य मंत्री, भारत सरकार, मुख्य अतिथि और श्री अर्जुन राम मेघवाल, माननीय संसदीय कार्य, भारी उद्योग और सार्वजनिक उद्यम राज्य मंत्री, भारत सरकार, विशेष अतिथि थे। इस अवधि के दौरान संस्थान की प्रमुख उपलब्धियों / गतिविधियों को इस छमाही समाचार पत्र के माध्यम से संक्षेप में प्रस्तृत किया जा रहा है। पीयात्रभराज

> (पी.एल.सरोज) निदेशक

🔲 अनुसंघान ज्योति

तरबूज जननद्रव्य का पंजीकरण: तरबजू में चयनित सामग्री में से एक द्विलिंगी पौधे की पहचान कर उसे बार—बार प्रजनन से शुद्ध किया गया है। विकसित

सामग्री (एएचडब्लू / बीआर—5: आईसी— 0627526) में अद्वितीय गुण हैं अर्थात स्थिर द्विलिंगी रूप और हरतिगृह में परागणकों के बिना फल उत्पादन में सक्षम और प्रचुर मात्रा में बीज, लाल गूदे युक्त गोल आकार के फल और धारियों रहित हरे रंग का छिलका होता है। फसल 80—85 दिनों में तुडाई के लिए तैयार हो जाती है। यह सामग्री (एएचडब्लू/



बीआर—5ः आईसी—0627526) स्थिर द्विलिंगी गुणों के कारण भाकृअनुप—एनबीपीजीआर, नई दिल्ली में आईएनजीआर 19081 के अंतर्गत पंजीकृत की गयी है (बी.आर.चौधरी, एस.एम.हलधर और पी. एल. सरोज)।

सहजन (मोरिंगा ओलिफेरा) एएचएमओ—1—4एस का चयन: चयनित सहजन (मोरिंगा ओलीफेरा) 'एएचएमओ —1—4एस' सब्जी उपयोग हेतु एक

बहुउपयोगी पौधा है। इसे उन्नत रेखाक्रमों में से चुना गया था। यह अधिक उपज देने वाला और उत्कृष्ट गुणवत्ता के साथ मध्यम आकार की फली का उत्पादन करने वाला पौधा है। यह तेजी से बढ़वार वाला, सूखा सिहण्णु है और एक वर्ष में 3—4 मीटर की ऊंचाई प्राप्त कर लेता है। पौध बनाने के लिए, परिपक्व



फलियों के ताजे बीजों का उपयोग जून—अगस्त के पहले सप्ताह में बुवाई के लिए किया जाता है (डी. के समादिया, ए. के वर्मा, एस.एम. हलधर और चेतराम)।

बेल के उन्नत जननप्रकार सीएचईएसबी 27 (आईसी-06293867) का चयन:

यह जननप्रकार अत्यधिक उपज देता है, फल का वजन 1.35—1.50 किग्रा. फल आकार 18.20 x 15.40 सेमी, गूदा टीएसएस 37.15 डिब्रि. के बीच होता है। यह मध्यम परिपक्व किस्म है (मई का तीसरा सप्ताह)। फलों में अच्छा स्वाद और सुगंध होती है। यह प्रसंस्करण और मूल्य संवर्धन के लिए अत्यधिक उपयुक्त है (ए. के. सिंह, संजय सिंह, पी.एल. सरोज और आर. एस. सिंह)।



संकर अमरूद 4/3 का विकास : संकर अमरूद 3/4 का पौधा लम्बा अच्छा फैलाव वाला, ढीला छत्रक, अत्यधिक फलन और फल गोल व मध्यम आकार के होते हैं। पकने पर फल पीलापन लिए गुलाबी और गूदा गुलाबी होता है और साधारण तापक्रम में फलों की भण्डारण गुणवत्ता अच्छी होती हैं (डी. एस. मिश्रा)।



"थार अनंत" टमाटर की एक उत्परिवर्तित किस्म : टमाटर की थार अनंत किस्म कों उत्परवर्तन द्वारा विकसित किया गया है। इस उत्प्रेरित किस्म में

बेहतर वानस्पतिक गुण होते है जिसको बागवानी गुणों एवं प्रदर्शन के आधार पर शोधित किया गया है। इसमें गर्म अर्धा – शुष्क जलवायु परिस्थितियों में गूदा मोटाई अधिक (0.85 सेमी),





लाइकोपीन सामग्री से भरपूर (7.9 मिग्रा / 100 ग्रा), मध्यम अम्लता (0.42 प्रतिशत) के साथ फलों का रंग गहरा लाल होता है। यह मातृ पौधों से अलग अनियत स्वभाव, फलों के आकार, फलों के रंग और उपज क्षमता द्वारा पहचाना जाता है। यह उच्च उपज क्षमता (4.2—4.9 किग्रा/पौधा) के साथ ताप के प्रतिदाब और सूखे के प्रति अत्यधिक सिहष्णु है। यह किस्म सलाद, प्रसंस्करण और निर्यात उद्देश्यों के लिए अत्यधिक उपयुक्त है (लालू प्रसाद)।

किसानों के लिए कार्यक्रम और विस्तार गतिविधियां

(अ) मूख्यालय बीकानेर में

समाचार पत्र की अवधि के दौरान, परिसर में / के बाहर किसानों के 12 प्रशिक्षण कार्यक्रमों, 39 एफएलडी (शुष्क सब्जियों और आलू की उन्नत किस्मों का) और 25 तकनीकी विधि प्रदर्शन आयोजित किए गए।

संस्थान में 700 से अधिक किसानों, छात्रों, खेत श्रमिकों, एसएमएस, गणमान्य व्यक्तियों, एनजीओ कर्मियों को भ्रमण करवाया गया।

खरीफ मौसम 2019—20 के दौरान काचरी की बेहतर किरम (एएचके —119) पर एक 'किसान स्कूल' का आयोजन किया। संस्थान ने 04 तकनीकी प्रदर्शनियों, दिनांक 30.08.2019 को भाकृअनुप—केशुबासं, बीकानेर, 03.09. 2019 को केवीके, नागौर में, 28.09.2019 को भाकृअनुप—केशुबासं, बीकानेर में और 17.12.2019 को जयपुर में भाग लिया और तकनीकियों को प्रदर्शित किया।



श्री कैलाश चौधरी, माननीय केंद्रीय कृषि और किसान कल्याण राज्य मंत्री, भारत सरकार, एवं श्री अर्जुन राम मेघवाल, माननीय संसदीय कार्य, भारी उद्योग और सार्वजनिक उद्यम राज्य मंत्री, भारत सरकार, 30.08.19 को किसान सम्मेलन के दौरान भाकृअनुप—केशुबासं, बीकानेर में प्रदर्शित स्टालों का भ्रमण करते हुए।

(ब) क्षेत्रीय केन्द्र, गोधरा (गुजरात)

संस्थान के क्षेत्रीय केन्द्र वेजलपुर, गोधरा (गुजरात) ने परिसर से बाहर 30 किसान के प्रशिक्षण कार्यक्रमों और महात्मा आश्रम, गांधीनगर, गुजरात और केवीके, पंचमहल, गुजरात में क्रमशः 28.01.2020 से 31.01 2020 और 21.01. 2020 से 22.01.2020 के दौरान 02 तकनीकी प्रदर्शनियों का आयोजन किया।

(स) कृषि विज्ञान केन्द्र, पंचमहल (गुजरात)

इस संस्थान के अंतर्गत कार्यरत कविक—पंचमहल, गोधरा (गुजरात) ने विभिन्न फसलों पर 225 विधि प्रदर्शनों के साथ 06 ऑन फार्म परीक्षण (ओएफटी), 21 अग्रिम पंक्ति प्रदर्शन (एफएलडी), 26 प्रशिक्षण कार्यक्रम, दो प्रक्षेत्र दिवस, दो किसान वैज्ञानिक सहभागिता, दो किसान गोष्ठी, एक प्रदर्शनी, 11 फिल्म शो, 245 किसानों का भ्रमण, चार किसानों और एक समीक्षा बैठक, किसानों के प्रक्षेत्र में 91 दौरे, 195 सलाहकार सेवाएं, एक पशु स्वास्थ्य शिविर, 33 नैदानिक दौरे, 177 प्रशिक्षण कार्यक्रम, तीन रेडियो और दो टीवी वार्ता का आयोजन किया।



कृषि विज्ञान केंद्र पर दिनांक 11.09.2019 को आयोजित राष्ट्रीय पशु रोग नियंत्रण और कृत्रिम गर्माधान कार्यक्रम में भाग लेते किसान और केन्द्र के अधिकारीगण।

मानव संसाधन कार्यक्रम / गतिविधियां

(अ) मुख्यालय बीकानेर

किसान सम्मेलन / वैज्ञानिक—िकसान परिचर्चा बैठक का आयोजन : संस्थान में दिनांक 30.08.2019 को एक विशाल किसान सम्मेलन / वैज्ञानिक—िकसान संवाद बैठक आयोजित की गई, जिसमें लगभग 600 किसानों, वैज्ञानिकों, विशेषज्ञों, छात्रों और अन्य गणमान्य लोगों ने भाग लिया। कार्यक्रम में श्री कैलाश चौधरी, माननीय केंद्रीय कृषि और किसान कल्याण, राज्य मंत्री, भारत सरकार मुख्य अतिथि और श्री अर्जुन राम मेघवाल, केंद्रीय, संसदीय कार्य, भारी उद्योग और सार्वजनिक उद्यम, राज्य मंत्री, भारत सरकार विशेष अतिथि थे।



किसान सम्मेलन में मंचासीन श्री कैलाश चौधरी, माननीय केंद्रीय कृषि और किसान कल्याण राज्य मंत्री, भारत सरकार, एवं श्री अर्जुन राम मेघवाल, माननीय संसदीय कार्य, भारी उद्योग और सार्वजनिक उद्यम राज्य मंत्री, भारत सरकार, एवं अन्य गणमान्य अतिथि।

• राष्ट्रीय राजभाषा कार्यशाला का आयोजनः भाकृअनुप— केशुबास में दिनांक 30 और 31 अगस्त, 2019 को उत्तरी क्षेत्र में स्थित परिषद के संस्थानों में कार्यरत राजभाषा अधिकारियों के लिए दो दिवसीय राष्ट्रीय राजभाषा कार्यशाला का आयोजन किया गया। इस कार्यशाला में लगभग 100 अतिथियों, प्रतिभागियों और अधिकारियों ने भाग लिया। कार्यशाला का उद्घाटन श्री कैलाश चौधरी, केन्द्रीय कृषि एवं किसान कल्याण राज्य मंत्री एवं श्री अर्जुन राम मेघवाल, केन्द्रीय संसदीय कार्य एवं भारी उद्योग एवं सार्वजनिक उद्यम राज्य मंत्री ने किया।



दो दिवसीय राजभाषा कार्यशाला में संबोधित करते हुए श्री कैलाश चौधरी, माननीय केंद्रीय कृषि और किसान कल्याण राज्य मंत्री, भारत सरकार, एवं श्री अर्जुन राम

• शुष्क बागवानी पर राष्ट्रीय सम्मेलन का आयोजन: 'शुष्क बागवानी': टिकाऊ उत्पादन और पोषण सुरक्षा के लिए एक कदम आगे बढ़ना' विषय पर एक राष्ट्रीय सम्मेलन का कृषि विज्ञान विश्वविद्यालय, रायचूर (कर्नाटक) और भाकृअनुप—केशुबासं, बीकानेर ने संयुक्त रूप से दिनांक 28—30 नवंबर, 2019 के दौरान यूएएस रायचूर (कर्नाटक) में आयोजित किया।



यूएएस, रायचूर में आयोजित राष्ट्रीय सम्मेलन में मंचासीन अतिथिगण

• अंतर्राष्ट्रीय प्रशिक्षण कार्यक्रम का आयोजनः संस्थान में दिनांक 09.08.2019 से

18.08.2019 तक इण्डिं—अफिकन सहयोग के तहत अफीकी देशों के 05 वैज्ञानिकों को 'शुष्क व अर्ध शुष्क पारिस्थितिकी में फल— सब्जियों में उच्च प्रौधागिकीय प्रवर्धन और उत्पादन विषय पर प्रशिक्षण दिया गया।



- 'अनार उत्पादन तकनीक' पर प्रशिक्षण कार्यक्रम का आयोजनः संस्थान में 26—28 अगस्त, 2019 के दौरान आत्मा, भुज (गुजरात) के सहयोग से वहां के किसानों को यह प्रशिक्षण दिया गया।
- मॉडल प्रशिक्षण का आयोजन : संस्थान में दिनांक 02—09 सितम्बर, 2019 के दौरान 'शुष्क बागवानी फल व सब्जी में समेकित कीट प्रबंधन' विषय पर एक मॉडल प्रशिक्षण का आयोजन किया गया।
- आईपीएम पर प्रशिक्षण का आयोजन : संस्थान में दिनांक 16—20 सितम्बर, 2019 के दौरान 'शुष्क बागवानी फसलों में समेकित कीट प्रबंधन' विषय पर आत्मा, झुंझुनू के सहयोग से 5 दिवसीय प्रशिक्षण का आयोजन किया गया।
- शृष्क क्षेत्रों के लिए बागवानी फसलों की विकसित प्रौद्योगिकियां पर कार्यशाला का
- आयोजन: संस्थान में दिनांक 15.11.2019 को 'शुष्क क्षेत्रों के लिए बागवानी फसलों की विकसित प्रौद्योगिकियों पर एक दिवसीय कार्यशाला का आयोजन किया गया जिसमें 150 से अधिक किसान, वैज्ञानिक, छात्र, कृविके विशेषज्ञ, आदि ने भाग लिया।



• एससीएसपी योजना में प्रशिक्षण और सामग्री वितरण का आयोजनः संस्थान में चल रहे एससीएसपी योजना के अंतर्गत इस अविध में कुल 5 प्रशिक्षण और कार्ययोग्य सामग्री का वितरण कार्यक्रमों का आयोजन किया गया। इनमें कुल मिलाकर 200 से अधिक एसी किसानों / महिलाओं को लाभान्वित किया गया।



- 🔃 दिवसों / अभियान / बैठक / पखवाड़ा / सप्ताह / शिविर का आयोजन
- 'सद्भावना दिवस का आयोजनः संस्थान में 20 अगस्त, 2019 को सद्भावना दिवस का आयोजन किया गया।
- 'गाजरघास जागरूकता सप्ताह का आयोजनः संस्थान में 22–28 अगस्त, 2019 के दौरान गाजरघास जागरूकता सप्ताह का आयोजन किया गया।
- 'जल शक्ति अभियान का आयोजनः संस्थान में 1 जुलाई 2019 से 15 सितम्बर 2019 तक जल के प्रति जागरूकता लाने के हेतु जल—शक्ति अभियान का आयोजन किया गया।
- स्वच्छता ही सेवा अभियान का आयोजनः संस्थान में 11 सितम्बर से 02 अक्टूबर, 2019 के दौरान स्वच्छता ही सेवा का अभियान चलाकर शहर में कई स्थानों पर सफाई का आयोजन किया गया।



• हिंदी पखवाड़ा का आयोजनः संस्थान में दिनांक 14–30 सितम्बर, 2019 के दौरान हिंदी पखवाड़ा का आयोजन किया गया जिसमें विभिन्न विषयों पर कई प्रकार की प्रतियोगिताएं आयोजित की गयी।



• **संस्थान स्थापना दिवस का आयोजन** : संस्थान में दिनांक 28.09.2019 को स्थापना दिवस मनाया गया।



स्थापना दिवस समारोह में मुख्य अतिथि के रूप में संबोधित करते हुए भारत सरकार के कृषि एवं किसान कल्याण मंत्रालय के कृषि मूल्य एवं दर आयोग के अध्यक्ष प्रो. विजय पॉल शर्मा और मंचासीन अतिथि।

• महात्मा गांधी जयंती मनायी गयी : संस्थान में 02.10.2019 को महात्मा गांधी जयंती को समारोह पूर्वक मनाया गया।



- कृषि शिक्षा दिवस का आयोजन : संस्थान में दिनांक 03.12.2019 को कृषि शिक्षा दिवस का आयोजन किया गया।
- विश्व मृदा स्वास्थ्य दिवस का आयोजन : संस्थान के द्वारा दिनांक 05.12.2019 को मेघासर गांव में विश्व मृदा स्वास्थ्य दिवस का आयोजन किया गया।

गणमान्य अतिथियों का आगमन



श्री कैलाश चौधरी, माननीय केंद्रीय कृषि और किसान कल्याण राज्य मंत्री, भारत सरकार ने 30.08.2019 को संस्थान के प्रक्षेत्र का भ्रमण किया।

प्रकाशक : प्रो. (डॉ.) पी. एल. सरोज, निदेशक

भाकृअनुप–केन्द्रीय शुष्क बागवानी संस्थान

बीकानेर (राजस्थान)

संकलन एवं सम्पादन ः डॉ. शिवराम मीना, प्रधान वैज्ञानिक

: सुश्री राम्याश्री देवी जी. एस.,वैज्ञानिक

: श्री प्रेम प्रकाश पारीक, स.मुख्य तक. अधिकारी (राभा.)

शब्द—सज्जा : श्री भोजराज खत्री छायाचित्रण : श्री संजय पाटिल