



CIAH NEWSLETTER

ICAR-CENTRAL INSTITUTE FOR ARID HORTICULTURE

Beechwal, Bikaner-334 006, Rajasthan



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July - December , 2018

Silver Jubilee celebration of ICAR-CIAH and Organization of National Conference at the Institute from 27.10.2018 to 29.10.2018.



Dr. Trilochan Mohapatra, Secretary DARE and DG, ICAR, New Delhi, addressing on the occasion of Silver Jubilee Celebration and organization of National Conference on "Arid Horticulture for Enhancing Productivity and Economic Empowerment" at ICAR- CIAH, Bikaner (Rajasthan).



Dr. Trilochan Mohapatra, Secretary DARE and DG, ICAR, New Delhi; Dr. A. K. Singh, DDG (Hort. Science), ICAR, New Delhi; Dr. Kirti Singh, Ex- Chairman, ASRB, ICAR, New Delhi; Padam Shree Dr. Brahma Singh; Dr. S. D. Shikhamany, Ex-VC, YSRAU, Andra Pradesh; Dr. W. S. Dhillon and Dr. T. Janakiram, ADG (HS), ICAR, New Delhi; Prof. (Dr.) P. L. Saroj, Director of the Institute releasing publication during the conference.

From the Director's Desk



ICAR-Central Institute for Arid Horticulture, Bikaner has completed 25 year of its inception in 2018. Therefore, the Silver Jubilee Year of the Institute was celebrated during year 2018. On this occasion, a National Conference on "Arid Horticulture for Enhancing Productivity and Economic Empowerment" was also organized at the Institute from 27.10.2018 to 29.10.2018 which was inaugurated by Dr. Trilochan Mohapatra, Secretary DARE and DG, ICAR, New Delhi. During the occasion, several high dignitaries including Dr. Trilochan Mohapatra, Secretary DARE and DG, ICAR, New Delhi; Dr. A. K. Singh, DDG (Hort. Science), ICAR, New Delhi; Dr. Kirti Singh, Ex- Chairman, ASRB, ICAR, New Delhi; Padam Shree Dr. Brahma Singh; Dr. S. D. Shikhamany, Ex-VC, YSRAU, Andra Pradesh; Dr. T. A. More, Ex-VC, MPKV, Rahuri (Maharatra); etc., visited the Institute and appreciated the R & D programmes and achievements of the Institute. During the reported period of time, some potential varieties of arid fruits and vegetables were released for the benefits of the farmers and some promising genotype of the same were also indentified. The Institute conducted a large number of demonstrations and trainings for the benefit of the farmers. During the reported period of this Newsletter, the Institute bagged ICAR Second Rajarshi Tandon Puraskar- 2016-17. The major research achievements and other developmental activities carried out in 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 :

An evaluation of pomegranate germplasm for growth, yield and screening against mites: Pomegranate germplasm were evaluated and highest fruit weight recorded in Jalore Seedless (262.50 g) followed by G-137 (258.12 g). Some of the germplasm were recorded with desirable characters which can be utilized for development of varieties for the different purposes like table purpose, preparing of anardana and breeding for tolerance to biotic and abiotic stresses or can be used as rootstock (**Ramesh Kumar, S.M. Haldhar and Ramkesh Meena**).



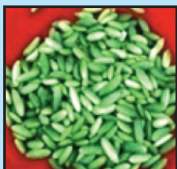
Variability in rind and aril colour of pomegranate germplasms

New released varieties of arid vegetables

- Palak variety "Thar Hariparna" is an improvement over the native population and produces excellent quality of leaves with 7–9 pickings from October to March.



- Ivy gourd variety "Thar Sundari" was developed through clonal selection from regional diversity. Its plants are gynoeceous and prolific in bearing female flowers with parthincarpic fruit development.



- Sponge gourd variety "Thar Tapish" was selected and developed through hybridization. It exhibited superiority for first harvesting (49.2–52.4 DAS). The yield potential is 142.2–155.8 q/ha with varying production situations (**D. K. Samadia, S. M. Haldhar, A. K. Verma and P. L. Saroj**).

**YF 5-2-7: A biofortified watermelon:**

Among the existing genetic variability, identified a saffron fleshed genotypes (YF 5-2-7) with high carotenoid content (7.0-7.2 µg/g FW) in comparison to popular red fleshed varieties (3.92 - 4.14 µg/g FW) (**B.R. Choudhary and M.K. Berwal**).

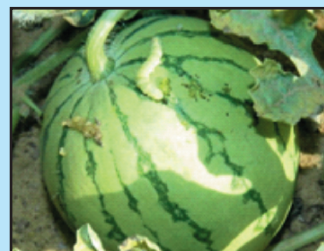


Identification of promising lasoda genotype LP-9: One promising genotype of lasoda (LP 9) was identified during the reported period of time which was extra large having more pulp content, very small stone, round in shape, very sweet in taste at ripening, light green in colour with waxy surface and bearing in bunches (**Kamlesh Kumar, D.K. Sarolia, Chet Ram, S.M. Haldhar & D. Singh**).

Testing of greater yam (*Dioscorea alata* L.) and colocasia in the arid region for new introduction: The experiments were conducted and it was found that the vegetative growth and yield of greater yam was high in open conditions while in case of the colocasia, the vegetative growth and yield was maximum when grown in between the interspaces of aonla plantation (**P. L. Saroj, M.K. Jatav, Roop Chand Balai and Ajay Kumar Verma**).

**Report of fruit borer, *Helicoverpa armigera* in cucurbits:**

H. armigera is a polyphagous and serious pest of cucurbits in the recent years. Larger larvae tend to burrow holes through thick areas of fruits. Ridge gourd (68.33%) is the most susceptible to injury followed by sponge gourd > bottle gourd > watermelon > muskmelon > long melon > snap melon (47%). The population of *H. armigera* was recorded from 35 days after sowing to 84 days after sowing in summer season (**S. M. Haldhar**).

**Development of Newly designed packaging box for Fresh dates:**

New boxes for packaging of fresh fruits of dates were designed using high density plastic (HDP) with good ventilation capacity, easy to handle, transport fresh fruits and with good consumers appeal due proper labeling on the box. packing box was released by Shri. Rahul Kuswan, MP, Churu district of Rajasthan on 13.07.2018 at the Institute.



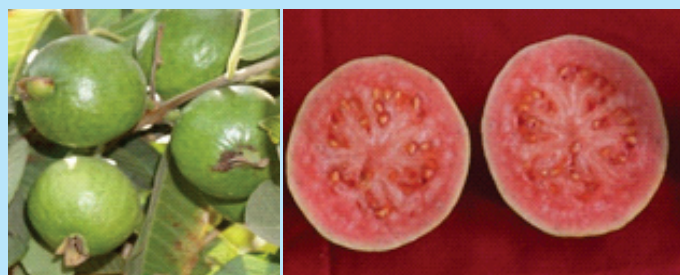
A delicious product "ketchup" of fully ripe fruits of snapmelon (*Cucumis melo*) was also prepared during the reported period of time. (**V. R. Reddy, R. K. Meena, R.S. Singh and P. L. Saroj**)

At CHES, Vejalpur, Godra, Gujarat.

New variety of wood apple "Thar Gaurav": After evaluation of existing germplasm, a new variety of wood apple named as "Thar Gaurav" was released at institute level (**Vikash Yadav**).



Selection of a promising genotype of guava: During the reported period of time, a promising new genotype (CHESG-15) of guava was selected from open pollinated seedling of local red fleshed germplasm collected from Bhavnagar, Gujarat. This genotype has bigger fruit size (452.25g) with pleasant aroma useful for both table and processing purpose, drought tolerant and also early maturing (November) with high yielding (115.05 kg/plant at 10th year) nature and suitable for cultivation in rainfed semi-arid regions (**D. S. Mishra and Sanjay Singh**).



Mature fruits of CHES-15

Deep red pulp colour of CHES-15

Identification of lines/genotypes of ivy gourd, Spine gourd and drumstick: (i) Ivy gourd: CIAH/ CHES/ LPY/ CHESIG-3, CIAH/ CHES/ LPY/ CHESIG-4, CIAH/ CHES/ LPY/ CHESIG-7, CIAH/ CHES/ LPY/ CHESIG-8, CIAH/ CHES/ LPY/ CHESIG-9 and CIAH/ CHES/ LPY/ CHESIG-10 (ii) Spine gourd : CIAH/ CHES/ LPY/ CHESG-1, CIAH/ CHES/ LPY/ CHESG-11, CIAH/ CHES/ LPY/ CHESG-15 (iii) Drumstick :CIAH/ CHES/ LPY/ CHESD-34 and CIAH/ CHES/ LPY/CHESD-40 (**Lalu Prasad Yadav**).

Standardization of Squash of pomegranate: Squashes were prepared by mixing pomegranate juice and sugar syrup as per different treatment combinations. Fruit aril juice and sugar syrup percentage were standardized for proper combination of the squash. The squash prepared by the best selected combination of 50: 50 per cent juice & sugar syrup on the basis of sensory evaluation was packed in pre-sterilized bottles (**R. K. Meena, Vijay Rakesh Reddy and R Bhargav**).

Identification of promising genotypes of Dolichosbean and cowpea (vegetable type):

(I) Dolichosbean:

CHESIB07: The dark pink pods, medium length (Av. 10.6cm), first harvesting at 110 to 115 DAS and an average yield was 4.1 kg/plant were the major characteristics of this genotype.

CHESIB-50: Attractive green and long pods (Av. 17.6 cm), first harvesting at 98 to DAS with an average yield of 4.1 kg/plant were the major characteristics of this genotype.

CHESIB 31: Attractive light greenish white and long pods (Av. 15.0cm), first harvesting of fresh pods at 115 to 120 DAS with an average yield of 4.1 kg/plant fresh pods.



CHESIB07

CHESIB-50

CHESIB 31

(ii) Cowpea (yardlong bean):

CHESVC-01: Attractive parrot green and long pods (Av.66 cm) with first harvesting at 55-60 DAS and an average yield of 1.8 to 2kg/plant fresh green pods were the major characteristics of this genotype.

CHESVC-22: Attractive red and long pods (Av. 36.8cm) and first harvesting of fresh pods at 64-65 DAS with an average yield of 0.7 to 0.75 kg/plant fresh pods were the major characteristics of this genotype (**Gangadhara K.**).

Phytochemical profiling of dried phog flower bud through GC-MS/MS: In GC-MS/MS chromatogram 92 peaks were identified with online phytochemical library search. Among the identified phytochemicals, major portions were fatty acids (>62%) followed by and phenolic compounds (>13%) which are of pharmaceutical importance and remaining other metabolites. The major portion of fatty acids in flower buds of phog were essential fatty acids and also contains 12 carbon long fatty acids called lauric acid (Dodecanoic acid) which is the precursor of mono laurines having vast medicinal properties. A very novel compound Deoxyspergualin was also detected which is an immunosuppressant with tumoricidal and antimalarial properties (**Mukesh K Berwal, Shravan M. Haldhar and Chet Ram**).

Multiplication of mulberry varieties through semi-hard wood cuttings: Propagation of improved varieties (Thar Lohit and Thar Harit) of mulberry was practiced

through semi-hard wood cuttings and observed that the survivability was better in Thar Lohit (85 % in protray and 80 % in polybags conditions) over the Thar Harit variety (**D. K. Sarolia, U. V. Singh and P. L. Saroj**).



Farmers' programmes and extension activities

(a) At H.Q. Bikaner

- During the reported period of time, 04 on/off campus farmers' training programmes, 07 FLDs and 23 method demonstration were conducted.

- The Institute participated and displayed our technologies in 03 technological exhibition organized at NRCC, Bikaner on 05.07.2018 & 02.10.2018 (Got Third Best Exhibition Award on 02.10.2018) and at ICAR-CAZRI, Jodhpur 13.09.2018.

- More than 26 lectures related arid horticultural technologies were delivered during the different farmers' training programmes, to visiting farmers, students and stakeholders.

- A Farmers' School on "Production technologies of improved variety (AHS-82) of snapmelon" was conducted during the Kharif season - 2018-19 at Ambasar village of Bikaner district, Rajasthan.

- Organization of Kisan Kalyan Abhiyan : As per directions of GOI, Kisan Kalyan Abhiyan (01.06.18 - 31.07.18) was organized in collaboration with KVK of Jaisalmer district and distributed plants/seeds of improved varieties of khejri (Thar Shpbha), Lsora (Thar bold) snapmelon (AHS-82) to more than

- 100 farmers of 25 villages in Jaisalmer district of Rajasthan on 27.07.2018



- Organization of Farmers- Scientists Interaction meet: Two days 'Farmers-scientists interaction meet' was organized at ICAR-CIAH, Bikaner from 28.10.18 to 29.10.18 in collaboration with ATMA, Bikaner in which 32 progressive farmers participated.
- Contribution in "Gram Swaraj Abhiyan" programme: The scientist of the Institute attended and contributed in "Farmers Welfare Workshop" organized by ATMA, Bikaner at different locations of the Bikaner district on 02.04.18 under "Gram Swaraj Abhiyan" programme of Govt. of India for doubling the farmer's income by 2022.
- More than 600 farmers, students, field worker, supervisors, SMS, dignitaries, NGO representatives were visited to the Institute.
- Twenty four on/off campus Research- Extension - Farmers-Interface- Meetings were held with visiting farmers/ stakeholders.
- Twenty four diagnostic or advisory visit to farmer's fields were made to provide technical help/suggestions for their better crop production/farming system.
- Some of the commodity (like kachri, snapmelon, ber, khejri, patota, etc.) interest based farmers groups were developed for encouraging the wide adoption of the same.
- The activities like visits, meetings/group discussion training, interaction, etc., were also organized to empower the farm women in the field of arid horticulture.
- During the reported period of time, more than 100 technological advisory work (One line / telephonic/off line discussions/ guidance/Qns.-Ans) with farmers were performed.
- More than 500 copies of technical literature were distributed among the farmers/clients during different extension programmes/activities within/outside of the Institute during reported period of time (**Dr. S. R. Meena, Dr. D. K. Samadia, Dr. D. K Sarolia and Sh. R. C. Balai**).
- Programmes and activities organized/conducted in adopted villages of the Institute under MGMG Scheme: Several extension programmes and activities were organized under Mera Gaon Mera Gaurav MGMG) Scheme in adopted villages of the Institute like farmers' visits, meeting/ Sangosthi, discussions, training, FLDs, method demonstrations, mobile advisory, creating linkages, creating knowledge and awareness, distribution of seeds and planting materials, technical literature, etc., during the reported period of time (**S. R. Meena**).

(b) At Reginal Station (CHES), Godhara (Gujarat)

- During the reported period of time, 709 farmers and farm women were visited to the experimental blocks of the Station.
- Conducted 15 on/off campus farmers' training during the reported period of time.

(c) At KVK, Panchmahal, Gujarat

- During reporting period of time the KVK-Panchmahal, Godhra, Gujarat conducted 08 on farm trial (OFT), 16 trainings (16), FLDs (107), exhibition (01), field days/ Abhiyan/ campaign (02), animal health awareness camps (02), advisory services (195), telephone helpline (345), diagnostic visit (77), method demonstration (32), lecture deliver (385), radio talks (5), T.V. Programme on DD Kisan News channel (1) and celebrated women empowerment day, Independents day, Hindi Diwas, Kisan Diwas and World Soil health day.



Dr. A. K. Singh, DDG (Extension Education), ICAR, New Delhi and Prof. (Dr.) P. L. Saroj, Director, ICAR- CIAH, Bikaner releasing a extension bulletin on the occasion of Kisan Ghosthi organized by KVK, Panchmaha, Godra, Gujarat on 3.12.2018.

HRD Programmes/activities

Organization of National Conference

The Institute (ICAR-Central Institute for Arid Horticulture, Bikaner) Organized a National Conference on "Arid Horticulture for Enhancing Productivity and Economic Empowerment" in collaboration Indian Society for Arid Horticulture during 27-29th October 2018 at ICAR- CIAH, Bikaner. The Conference was inaugurated on 27th October 2018 by Dr. Trilochan Mohapatra, Secretary, DARE & Director General ICAR, New Delhi as the Chief Guest; Dr. Anand Kumar Singh, Deputy Director General (Horticultural Science), ICAR, New Delhi presided over the function and Dr. Kirti Singh, Former Chairman, ASRB, New Delhi; Padam Shree Dr. Brahma Singh and Dr. S. D. Shikhamany were the guests of honour of conference. Dr. W. S. Dhillon and Dr. T. Janakiram, ADG (HS) were special guests of the function. Five publications i.e. Souvenir of the Conference, e-Book of Abstracts, Special Issues of India Horticulture, Hindi Patrika Maru Bagwani and a book on Soil and water management were released by the dignitaries.



Dr. Trilochan Mohapatra, Secretary DARE and DG, ICAR, New Delhi; Dr. A. K. Singh, DDG (Hort. Science), ICAR, New Delhi; Dr. Kirti Singh, Ex- Chairman, ASRB, ICAR, New Delhi; Padam Shree Dr. Brahma Singh; Dr. S. D. Shikhamany, Ex-VC, Dr. YSRHU (AP), Dr. W. S. Dhillon and Dr. T. Janakiram, ADG (HS), ICAR, New Delhi and Prof. (Dr.) P. L. Saroj, Director, ICAR-CIAH, Bikaner.

During inauguration past directors viz, Dr. B. Raturi and Dr. T. A. More were felicitated for their contribution in building up the Institute. First Life Time Achievement Dr. D. G. Dhandar Award was presented to Dr. R. K. Pathak, Former Director, ICAR-CISH, Lucknow and Dr. G. S. Cheema Memorial Award was presented to Dr. T. A. More, Former Vice Chancellor, MPKV, Rahuri (Maharashtra) who have made significant contributions in the field of arid horticulture and fruit crops improvement. The society also awarded the persons who have contributed in expanding the arid and semi-arid horticultural crops by presenting the Udyan Shree Award. The inaugural function was followed by Silver Jubilee Lecture on Arid Horticulture which was delivered by Dr. S. D. Shikhamany, Former Vice Chancellor, Dr. YSRHU, Andhra Pradesh. A total of six presentations were made covering the scenario of arid and semi-arid horticulture at global and national level. A special lecture was delivered by Padam Shree Dr. Brahma Singh on Greening Cold Arid Zones through Horticulture. On second day (28-10-2018) of the conference, a technical session on Genetic Resource management, Improvement and Biotechnological Interventions were held during which total of five lead lectures were delivered and eight oral presentations were made. Other technical sessions on Innovative Approaches in Productivity Enhancement, Approaches for Production of Quality Seed and Planting Materials, Biotic Stress Management, Organic Farming, Integrated Cropping/ Farming Systems and advances in Abiotic Stress Management held and majority of the speakers laid emphasis generation of quality seed and planting material for farmers, utilization of indigenous fruit crops, resistance genes in horticultural crops, local isolates, bio-agents in IPM, adapted germplasm of different crops, traditional water harvesting practices and rearing of animals with crop production, etc., for enhancing production and productivity of the horticultural crops under stress condition of the arid and semi-arid regions of the country. Concurrent to different sessions poster presentation were also held and evaluated. On third day i.e. 29th October 2018, a technical session on Post Harvest management, Value Addition and Trade Policies for Sustainable Development, Ecotourism

and Impact Assessment, farmers-industry-scientists interaction were held. Among them farmers-industry-scientists interaction was very important in which various representatives of agro-based industries, farmer and representatives of state government were participated. Plenary session was held under the Panelists of Dr. B N S Murthy, Commissioner Horticulture, GOI, New Delhi and Prof (Dr.) P. L. Saroj Director, ICAR-CIAH and Chairman of Organizing Committee and discussions were held on the various recommendations of the different technical sessions. Dr. Murthy appreciated the outcome of the Conference and suggested that detail programme on quality seeds and planting material of Khejri should be developed for which Ministry of Agriculture & Farmer Welfare, GOI will support. In total 275 participants participated in the conference.

- A Hindi Workshop was held in the Institute on 31.12.2018
- Dr. S. K. Maheshwari attended 'Management Development Programme on PME of Agricultural Research Projects' during 17-22 December, 2018 at ICAR-NAARM, Hyderabad.
- Dr. R S Singh attended workshop on status and strategies for enhancing crop water productivity in IGNP area held at ICAR-CAZRI, RRS, and Bikaner on 26.6.2018.
- Prof. (Dr.) P. L. Saroj, Director of the Institute participated in the One day Workshop at ICAR, New Delhi on 28th July, 2018.
- All scientists of the Institute participated in National Conference on "Arid Horticulture for Enhancing Productivity and Economic Empowerment" organized by Indian Society for Arid Horticulture in collaboration of ICAR-Central Institute for Arid Horticulture, Bikaner during 27-29th October 2018 at ICAR-CIAH, Bikaner.

Organization/Celebration of days/weeks/fortnights.

- **Press conference held:** A "press conference" was held at the Institute on 25.10.18 in which more than 30 press media persons participated and various discussions were made with Dr. W. S. Dhillon, ADG (HS-II), New Delhi, Director and Scientists of the Institute about arid horticultural development.



- **Celebration of Hindi Pakhwada:** Hindi Pakhwada programme carried out at the Institute during 14-29 September, 2018.
- **Celebration of Agriculture Education Day:** A "Agriculture Education Day" was organized in the Institute on 03.12.18 in which more than 100 students, scientists, officials, field workers participated.

● **Celebration the World Soil Health Day:** The "World Soil Health Day" was celebrated in Khinchiya (4KHM) village of Bikaner district on 05.12.18 in which about 100 farmers, scientists and field workers participated.



● **Swachchh Bharat**

Abhiyan (Campaign): During the reported period of time, the Swachchh Bharat Abhiyan (Campaign) was carried out in the Institute time to time and all the employee/staff of the Institute contributed a lot in cleaning the Institute's premises.

● **Fortnight Campaign on "Swachchhata Hi Jivan":** The Fortnight Campaigns on cleaning work under the programme "Swachchhata Hi Jivan" was carried out inside the Institute and in the villages/Kachi Basti situated nearby Institute during the 15-30 September, 2018.



● **Dr. G. S. Cheema Jayanti** was celebrated at the Institute on 2.8.2018

● **Agricultural Education Day** was organized at ICAR-CIAH, Bikaner on 3.12.2018 in which > 100 school and college students/teachers/officials participated.

● **Organization of Kisan Diwas:** A kisan Diwas was celebrated in Kolasar village of Bikaner on 23.12.2018 in which more than 100 farmers and scientists, public representatives participated.



Visit of VIPs/ Dignitaries at the Institute

At H. Q. Bikaner.

- Sh. Rahul Kaswan, Hon'ble M.P., Churu district of Rajasthan visited the Institute on 13.07.2018.
- Mrs. Neelkamal Darbari, Additional Chief Secretary, Govt. of Rajasthan, Jaipur visited Institute on 07.09.2018.
- Dr. Trilochan Mohapatra, Secretary, DARE and DG, ICAR, New Delhi visited the Institute on 02.10.2018 and transplanted the tissue cultured date palm plant developed in Biotechnology Lab of the Institute (ICAR-



CIAH, Bikaner) in the campus premise. He observed the recent improved varieties of the arid vegetables like AHK-119 of Kachri (Cucumis var. calosus) and highly appreciated the same.



- Dr. Trilochan Mohapatra, Secretary, DARE and DG, ICAR, New Delhi visited the Institute for second time on 27-29 October, 2019.
- Dr. A. K. Singh, DDG (Hort. Science), ICAR, New Delhi visited the Institute on 27-29 October, 2019.
- Dr. Kirti Singh, Ex- Chairman, ASRB, New Delhi visited the Institute on 27-29 October, 2019.
- Dr. W. S. Dhillon, ADG (Horti. Science-II), ICAR, New Delhi visited the Institute on 27-29 October, 2019.
- Dr. T. Janakiram, ADG (Hort. Sci-I), ICAR, New Delhi visited the Institute on 27-29 October, 2019.
- Dr. B.N.S. Murthy, Horticulture Commissioner, GOI, New Delhi visited the Institute on 27-29 October, 2019.
- Mr. Chhabilendra Roul, Special Secretary, ICAR, New Delhi visited the Institute on 06.10.2018.
- Dr. M. Muthukumar, IAS, Director (Agril. & Food Production), Govt. of Odisha, Bhubneshwar visited the Institute on 29.11.2018.



At CHES, Vejalpur, Godhra, Gujarat.

- Sri. Sanjay Prasad (I A S) Addl. Chief Secretary, Govt. of Gujarat visited the Regional Station CHES, Vejalpur, Godra, Gujarat on 22.07.2018
- Sri. Jasant Singhji Bhabhor, Union State Minister of Tribal Affairs, Govt. of India visited the Regional Station CHES, Vejalpur, Godra, Gujarat on 21.10.2018
- Dr. A.K Singh, DDG Agri. Extension Education, ICAR, New Delhi visited the Regional Station CHES, Vejalpur, Godra, Gujarat on 03.12.2018
- Dr. Lakhan Singh, Director, ATARI, Pune visited the Regional Station CHES, Vejalpur, Godra, Gujarat on 03.12.2018.

Institute's Developmental Activities.

- Dr. Trilochan Mohapatra, Secretary DARE and DG, ICAR, New Delhi visited the Institute and laid Foundation Stone of new Library Building of the Institute on 03.10.2018.



Dr. T. Mohapatra, Secretary DARE and DG, ICAR, New Delhi, is laying the Foundation Stone for the new Library Building of the Institute 03.10.2018 in the presence of Dr. J. K. Jena, DDG (Fisheries & Animal Science), ICAR, New Delhi, Dr. O. P. Yadav, Director, ICAR-CAZRI, Jodhpur, Prof. (Dr.) P. L. Saroj, Director of the Institute and other dignitaries.

- DDG (Horti. Science), ICAR, New Delhi, inaugurated the children park, at ICAR- CIAH Campus, Bikaner on 27.10.2018



Dr. A. K. Singh, DDG (Horti. Science), ICAR, New Delhi; is inaugurating the opening of the children park of the Institute in the presence of Prof. (Dr.) P. L. Saroj, Director of the Institute and other persons/scientist.

Important Meetings held.

- IRC Meeting was held at the Institute during 09-10th August, 2018 under the Chairmanship of Prof. (Dr.) P. L. Saroj, Director of the Institute. The research achievements of the scientist for the year 2017-18 were presented, discussed and the research targets/works were finalized for the next year (2018-19).
- RAC meeting was held on 25.10.2018 under Chairmanship

of Dr. T. A. More, Former Vice Chancellor, MPKV, Rahuri and members of RAC including Dr. M. Anandraj, Ex-Director ICAR-IISR, Calicut, Dr. W. S. Dhillon, ADG (HS-II) ICAR, New Delhi and Prof. (Dr.) P.L. Saroj, Director, ICAR-CIAH, Bikaner.



Visits/meeting/programmes attended/participated by the Director of the Institute.

(a) Professor (Dr.) P. L Saroj, Director of the Institute attended/ participated in the following meetings/ programmes / workshops /conference, etc., during July -December, 2018.

- Participated in the Foundation Day of ICAR and Director's Conference at ICAR, New Delhi during 16-18 July, 2018.
- Participated in one day Workshop at ICAR, New Delhi on 28th July, 2018.
- Participated in the inaugural function of State Level Farmers Fare at CAZRI, Jodhpur on 12 Sept., 2018 and discussed with the concerned scientist of Date Palm Tissue Culture Project at CAZRI, Jodhpur on 13.09.2018.
- Participated in Foundation Day of CAZRI at CAZRI, Jodhpur on 01 Oct., 2018.
- Participated in a meeting as a nominee of President of India at BHU, Varanasi on 19.11.2018.
- Participated in the Kisan Goshthi at KVK Panchmahal, Godhra, Gujarat on 03.12.2018.
- Participated in the 6th Technical Session of International Conference as Chairman at NRC on Seed Spices, Tabiji, Ajmer on 21.12.2018

(b) Professor (Dr.) P. L. Saroj, Director of the Institute visited the following AICRP centres/other places during July - December, 2018.

- Visited and inspected different projects under the scheme of the AICRP on AZF Centre of Bawal (Haryana) during 16-18 July, 2018.
- Visited and inspected different projects under the scheme of the AICRP on AZF Centre of Jobner (Rajasthan) on 03.12.2018.

Awards and Peer Recognitions.

Institute received ICAR Rajarshi Tondon Rajbhasha Award: 2016-17 on 16.07.2018 at New Delhi.



Director, ICAR-CIAH, Bikaner Prof. (Dr.) P. L. Saroj and Sh. P. P. Pareek, ACTO (OL) receiving ICAR Rajarshi Tondon Rajbhasha Award-2016-17 from Union Minister of Agriculture and Farmers Welfare, GOI, New Delhi Shri. Radha Mohan Singh and Union Minister for State, MA&KW, GOI, Sh. Gajendra Singh Sekhawat on 16-07-2018.

- Dr. S. M. Haldahr Nodal Officer, KRISHI, ICAR-CIAH received 'Certificate of Appreciation' Indian Council of Agriculture Research, New Delhi.
- Dr. S. M. Haldahr, received 'Best Oral Presentation Award' in National Conference on Arid Horticulture for Enhancing Productivity & Economic Empowerment at ICAR-CIAH, Bikaner from 27-29 October, 2018.
- Dr. M.K. Jatav, received the Best poster Presentation award during National Conference on Arid Horticulture or Enhancing Productivity and Economic Empowerment held on 27-29th October 2018, CIAH, Bikaner.
- Prof. (Dr.) P. L. Saroj, Director of the Institute worked as a member of Judging Committee for the 15th Hooker Award at IARI, New Delhi on 21.01.2019.
- Prof. (Dr.) P. L. Saroj, Director of the Institute participated as Guest of Honor during the Seed Spices Farmers Fare and Conference organized by NRC on Seed Spices, Tabiji, Ajmer on 08.02.2019.
- Prof. (Dr.) P. L. Saroj, Director of the Institute participated in a meeting as a nominee of President of India at BHU, Varanasi on 19.11.2018.
- Dr Vijay Rakesh Reddy, S. received First Prize in HINDI Poster making competition organized as a part of HINDI Chetna Pakhwada during Sept 2018 at ICAR-CIAH, Bikaner.
- Dr Vijay Rakesh Reddy, S. received the Young Scientist Award in the field of Horticulture from Venus International Foundation, Chennai during August, 2018.
- Dr. S. K. Maheshwari got III position in Unicode Hindi Tankan Pratiyogita during Hindi Chetna Pakhwada at ICAR-CIAH, Bikaner during 14-29th September, 2018.
- Dr. Lalu Prasad Yadav awarded with First prize for poster presentation on "Genetic variability in Ivy gourd under rainfed semi arid conditions" in "National conference on Arid Horticulture for enhancing productivity and economic empowerment" (Indian Society for Arid Horticulture) held at

ICAR-CIAH, Bikaner from 27-29/10/2018.

- Dr. S. R. Meena, Principal Scientist (Argil. Extension) was honoured as "Fellow ISAH-2018" by the "Indian Society for Arid Horticulture (ISAH) C/o ICAR- CIAH, Bikaner (Rajasthan) on the occasion of the National Conference Organized by ISAH and ICAR- CIAH from 27th - 29th October 2018 at ICAR- CIAH, Bikaner.
- Dr. Kanak Lata, Head, KVK-Panchmahal Godhra (Gujarat), received Prof. Yesh Pal Memorial International Award- 2018 and cash 50,000.00 from Foundation for Global Science Initiatives, on the occasion of 14th International Exhibition for Young Innovators, held at VIVANTA BY TAJ, SURAJKUND (Faridabad) Haryana, India on 20 October 2018.
- The Institute participated and displayed the technological exhibition of the Institute in "Kisan mela (Agrifest)" organized by NRCC, Bikaner on 02.10.2018 where our exhibition was awarded with Third Best Exhibition Award during the Mela.



Staff News

Appointment/joining/transfer:

- Ms. Ramyashree Devi G. S., joined the Institute as a Scientist (Plant Pathology) on 09.10.2018.
- Dr. Hare krishana, Principal Scientist (Horticulture) relieved in the afternoon of 13.07.2018 on transfer to ICAR- IIVR, Varanasi (UP).
- Sh. D. U. Chauhan, L. D. C., relieved in the afternoon of 15.11.2018 on transfer to CHES, Vejalpur, Godra (Gujarat).

Promotion/Assessment:

- Sh. K. M. Parmar, Sr. Technical Assistant (Mechanic), CHES, Vejalpur, Godhra promoted to Technical Officer (Mechanic), PB-2 Rs. 9300-34800 with grade pay of Rs. 4600 (pre-revised).
- Sh. T. S. Dhakiya, Technical Assistant (Driver), CHES, Vejalpur, Godhra promoted to Sr. Technical Assistant (Driver), Pay Level-6.
- Sh. I. P. Thakor, Technical Assistant (Electrician), CHES, Vejalpur, Godhra promoted to Sr. Technical Assistant (Electrician), Pay Level-6.

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**Editors : Dr. S. R. Meena
: Sh. P. P. Pareek
: Miss Ramyashree D.G.S.**

**Photography : Sh. S. Patil
Setting Designing : Er. B. R. Khatri**



शुष्क बागवानी समाचार



भाकृअनुप-केन्द्रीय शुष्क बागवानी संस्थान
बीछवाल, बीकानेर - 334 006, (राजस्थान)

अंक-18 क्रमांक-2

जुलाई-दिसम्बर, 2018

भाकृअनुप-केशुबासं के रजत जयंती समारोह एवं राष्ट्रीय सम्मेलन का आयोजन 27-29 अक्टूबर, 2019



संस्थान में आयोजित रजत जयंती समारोह एवं 'उत्पादकता बढ़ाने और आर्थिक सशक्तिकरण के लिए शुष्क बागवानी' के राष्ट्रीय सम्मेलन के अवसर पर सम्बोधित करते हुए डॉ. त्रिलोचन महापात्र, सचिव, डेयर एवं महानिदेशक, भाकृअनुप, नईदिल्ली।



संस्थान में आयोजित रजत जयंती समारोह एवं 'उत्पादकता बढ़ाने एवं आर्थिक सशक्तिकरण के लिए शुष्क बागवानी' के राष्ट्रीय सम्मेलन के अवसर पर संस्थान के प्रकाशन का विमोचन करते हुए डॉ. त्रिलोचन महापात्र, सचिव, डेयर एवं महानिदेशक, भाकृअनुप, नईदिल्ली, डॉ. ए. के. सिंह, उ.म.नि (बाग. विज्ञान), डॉ. कीर्ति सिंह, पूर्व अध्यक्ष, कृ.वै.च.म., नई दिल्ली, पद्मश्री ब्रह्म सिंह, पूर्व निदेशक, डीआरडीओ, डॉ. एस. डी. शिखामणी, पूर्व कुलपति, वाईएसआरएचयू, आन्ध्र प्रदेश, डॉ. वसाखा सिंह दिल्ली एवं डॉ. टी. जानकीराम, स.म.नि. (बाग. विज्ञान), भाकृअनुप, नई दिल्ली और संस्थान के निदेशक प्रो. (डॉ.) पी. एल. सरोज।

■ निदेशक की कलम से....



भाकृअनुप-केन्द्रीय शुष्क बागवानी संस्थान, बीकानेर ने वर्ष 2018 में अपनी स्थापना के 25 वर्ष पूरे कर लिए हैं। इसलिए, वर्ष 2018 के दौरान संस्थान का रजत जयंती वर्ष मनाया गया। इस अवसर पर, संस्थान में दिनांक 27.10.2018 से 29.10.2018 के दौरान 'उत्पादकता और आर्थिक सशक्तिकरण के लिए शुष्क बागवानी' पर एक राष्ट्रीय सम्मेलन का आयोजन किया गया, जिसका उद्घाटन डॉ. त्रिलोचन महापात्र, सचिव डेयर और महानिदेशक, भाकृअनुप, नई दिल्ली द्वारा किया गया। इस अवसर के दौरान, डॉ. त्रिलोचन महापात्र, सचिव डेयर एवं महानिदेशक, आईसीएआर, नई दिल्ली; डॉ. ए. के. सिंह, उप महानिदेशक (बागवानी विज्ञान), भाकृअनुप, नई दिल्ली; डॉ. कीर्ति सिंह, पूर्व अध्यक्ष, एसआरबी, भाकृअनुप, नई दिल्ली; पद्मश्री डॉ. ब्रह्मा सिंह, डॉ. एस. डी. शिखामणी, पूर्व कुलपति, डॉ. वाईएसआरएचयू, (आन्ध्र प्रदेश), डॉ. टी. ए. मोरे, पूर्व कुलपति, एमपीकेवी, राहुरी (महाराष्ट्र), सहित बहुत से गणमान्य व्यक्तियों, ने संस्थान का दौरा किया और संस्थान के अनुसंधान एवं विकास कार्यक्रमों और उपलब्धियों की सराहना की। इस अवधि में शुष्क फलों और सब्जियों की कुछ संभावित किस्में किसानों के लाभ के लिए जारी की गईं, इसके अलावा इनके उन्नत जननप्रकारों की पहचान भी की गई। संस्थान ने किसानों के लाभ के लिए बड़ी संख्या में प्रदर्शन और प्रशिक्षण आयोजित किए। इस समाचार पत्र की अवधि के दौरान, संस्थान ने भाकृअनुप के राजर्षि टंडन राजभाषा पुरस्कार- 2016-17 में दूसरा स्थान प्राप्त किया। संस्थान द्वारा इस अवधि के दौरान किए गए प्रमुख अनुसंधान उपलब्धियों और अन्य विकास गतिविधियों को इस छमाही समाचार पत्र के माध्यम से संक्षेप में बताया जा रहा है।

पी.एल.सरोज

(पी.एल.सरोज)
निदेशक

अनुसंधान ज्योति

अनार जननद्रव्यों का विकास, उपज और छटनी के लिए मूल्यांकन

अनार के जननद्रव्यों का मूल्यांकन किया गया और सबसे अधिक फल वजन जालोर सीडलेस (262.50 ग्राम) में दर्ज किया गया, इसके बाद जी-137 (258.12 ग्राम) का स्थान रहा। कुछ जननद्रव्यों में वांछनीय विशेषताएं दर्ज की गईं, जिनका उपयोग विभिन्न उद्देश्यों जैसे— सीधे खाने में, अनारदाना बनाने और जैविक अजैविक तनावों के प्रति सहिष्णुता हेतु प्रजनन के मूलवृत्त के लिए किया जा सकता है (रमेश कुमार, एस.एम. हलधर, रामकेश मीणा)।



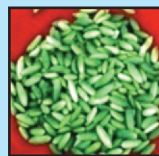
अनार जननद्रव्यों के आवरण और दानों के रंगों में विविधता

शुष्क सब्जियों की जारी की गई नयी प्रजातियां :

पालक किस्म "थार हरीपर्णा": यह किस्म स्थानीय प्रकार का एक उन्नत सुधार है और इससे अक्टूबर से मार्च तक उत्कृष्ट गुणवत्ता पालक पत्तों की 7-9 कटाई के रूप में उत्पादन प्राप्त किया जा सकता है।



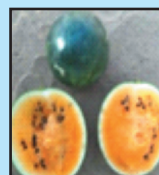
कुंदरु की किस्म "थार सुंदरी": यह किस्म क्षेत्रीय विविधता से क्लोनल चयन के माध्यम से विकसित की गई है। इसके पौधे जाया जनेनिक हैं जिनमें अनिषेकफलन विकास के साथ मादा फूल अधिक मात्रा में आते हैं।



चिकनी तोरई की किस्म "थार तापिश": इस किस्म का विकास संकरण के माध्यम से किया गया है। इसने पहली फल तुड़ाई (49.2-52.4 दिन) में श्रेष्ठता का प्रदर्शन किया। अलग-अलग उत्पादन स्थितियों में उपज क्षमता 142.2-155.8 किंगटल प्रति हेक्टेयर रहा (डी. के. समदिया, एस.एम. हलधर, ए. के. वर्मा और पी. एल. सरोज)।



उच्च कैरोटिनोईड मात्रा के तरबूज जननप्रकार की पहचान : उपलब्ध जननिक विविधता के मध्य, लाल रंग के गूदे वाले तरबूज (3.92 - 4.14 $\mu\text{g/g}$ एफडब्लू) की तुलना में केसरिया रंग के गूदे के साथ कैरोटिनोईड की उच्च मात्रा (7.0-7.2 $\mu\text{g/g}$ एफडब्लू) के एक तरबूज के एक नये जननप्रकार (वाईएफ 5-2-7) की पहचान की गयी है (बी. आर. चौधरी एवं एम. के. बेरवाल)।



ताजा खजूर फलों की नई डिब्बाबंदी तकनीकी का विकास : खजूर के ताजे फलों की पैकिंग के लिए उच्च घनत्व वाले प्लास्टिक (एचडीपी) के नए बक्से तैयार किए गए जो अच्छे हवादार क्षमता के साथ, ताजे फलों को रखने और परिवहन के लिए सरल, दिखने में सुंदर तथा उचित लेबलिंग चिपका कर डिजाइन किए गए। इन डिब्बों को राजस्थान के चूरु जिले



से सांसद श्री राहुल कर्वां द्वारा 13.07.2019 को संस्थान में जारी किया गया। इस अवधि में फूटककड़ी के पूर्ण पके हुए फलों से स्वादिष्ट "केचअप" भी तैयार किया गया था। (वी. आर. रेडडी, आर. के. मीना, आर. एस. सिंह एवं पी. एल. सरोज)।

केबापके, वेजलपुर गोधरा में

काष्ठ सेब (वुड एपल) की नई किस्म "थार गौरव": काष्ठ सेब के उपलब्ध जननप्रकारों के विस्तृत मूल्यांकन के बाद "थार गौरव" नाम से एक नई किस्म का विकास किया गया (विकास यादव)।



अमरुद के नये जननप्रकार का चयन :

भावनगर, गुजरात से संग्रहित स्थानीय लाल गूदे के जननप्रकारों में से एक नये जननप्रकार (सीएचईएसजी-15) का चयन किया गया है। इसके फल आकार में बड़े और उपज भी अच्छी देते हैं (डी. एस. मिश्रा एवं संजय सिंह)।



अमरुद के नये जननप्रकार (सीएचईएसजी-15) के फल

किसानों के लिए कार्यक्रम और विस्तार गतिविधियां

(अ) मुख्यालय, बीकानेर में

- संस्थान ने एनआरसीसी, बीकानेर में 05.07.2018 तथा 02.10.2018 और भाकृअनुप-काजरी, जोधपुर में 13.09.2018 के दौरान आयोजित प्रदर्शनियों में भाग लेकर संस्थान की तकनीकियों का प्रदर्शन किया। एनआरसीसी, बीकानेर में संस्थान की प्रदर्शनी ने तीसरा पुरस्कार प्राप्त किया।



- किसान कल्याण अभियान का आयोजन : भारत सरकार के निर्देशों के अनुसार किसान कल्याण अभियान (01.06.18-31.07.2018) के दौरान कृषि विज्ञान केन्द्र, जैसलमेर के सामंजस्य में दिनांक 27.07.

2018 को जैसलमेर में एक दिवसीय किसान कल्याण शिविर का आयोजन किया गया जिसमें संस्थान द्वारा विकसित खेजड़ी की थार शोभा, लसोड़ा की थार बोलड और फूटककड़ी की एचएस-82 किस्मों के पौधे/बीज वितरित किए।



- किसान-वैज्ञानिक संवाद गोष्ठी का आयोजन : आत्मा, बीकानेर के सहयोग से संस्थान में दिनांक 28-29 अक्टूबर, 2018 के दौरान दो दिवसीय किसान-वैज्ञानिक संवाद गोष्ठी का आयोजन किया गया जिसमें 32 प्रगतिशील किसानों ने भाग लिया।
- ग्राम स्वराज अभियान योजना में सहयोग : आत्मा, बीकानेर के द्वारा बीकानेर जिले के विभिन्न स्थानों पर 2022 तक किसानों की आय को दुगुनी करने के लिए चलाई जा रही भारत सरकार की योजना "ग्राम स्वराज अभियान" के अंतर्गत दिनांक 02.10.2018 को 'किसान कल्याण कार्यशाला' के आयोजन के दौरान संस्थान के वैज्ञानिकों ने भाग लेकर सहयोग दिया।
- इस छमाही के दौरान संस्थान में लगभग 600 किसान, विद्यार्थी, खेतीहर श्रमिक, पर्यवेक्षक, एसएमएस, गणमान्य व्यक्ति, एनजीओ प्रतिनिधियों आदि ने भ्रमण कर यहां चल रही अनुसंधान गतिविधियों की जानकारी प्राप्त की।

(ब) उपकेन्द्र, वेजलपुर (गुजरात) में

- उपकेन्द्र पर इस अवधि के दौरान 709 किसान पुरुष एवं महिलाओं ने भ्रमण कर वहां चल रही अनुसंधान गतिविधियों की जानकारी प्राप्त की। छमाही के दौरान 15 परिसर पर/बाहर किसान प्रशिक्षण कार्यक्रमों का आयोजन भी किया गया।

(स) कृषि विज्ञान केन्द्र, पंचमहल, गुजरात में किसान गोष्ठी का आयोजन



दिनांक 03 दिसम्बर, 2018 को कृषि विज्ञान केन्द्र, पंचमहल, गुजरात में आयोजित एक दिवसीय किसान गोष्ठी के दौरान तकनीकी पुस्तिका का विमोचन करते हुए डॉ. ए. के. सिंह, उप महानिदेशक (कृषि विस्तार), भाकृअनुप, नई दिल्ली एवं प्रो. (डॉ.) पी. एल. सरोज, निदेशक, भाकृअनुप-केशुबासं, बीकानेर।

- इस अवधि के दौरान कृषिकों के द्वारा चलाए जाने वाले नियमित कार्यक्रमों जैसे-खेत पर परीक्षण, अग्रिम पंक्ति प्रदर्शन, भ्रमण, किसान प्रशिक्षण, आदि का आयोजन भी किया गया।

मानव संसाधन कार्यक्रम/गतिविधियां

● राष्ट्रीय सम्मेलन का आयोजन

संस्थान ने बीकानेर में 27-29 अक्टूबर, 2018 के दौरान भारतीय बागवानी समिति के सहयोग से 'उत्पादकता बढ़ाने और आर्थिक सशक्तीकरण के लिए शुष्क बागवानी' पर एक राष्ट्रीय सम्मेलन का आयोजन किया। सम्मेलन का उद्घाटन 27 अक्टूबर 2018 को डॉ. त्रिलोचन महापात्र, सचिव, कृषि अनुसंधान एवं शिक्षा विभाग और महानिदेशक, भारतीय कृषि अनुसंधान परिषद्, नई दिल्ली द्वारा मुख्य अतिथि के रूप में किया गया। समारोह में डॉ. आनंद कुमार सिंह, उप महानिदेशक (बागवानी विज्ञान), भाकृअनुप, नई दिल्ली अध्यक्ष थे। इस अवसर पर डॉ. कीर्ति सिंह, पूर्व अध्यक्ष, एसएसआरबी, नई दिल्ली, पद्मश्री डॉ. ब्रह्मा सिंह और डॉ. एस.डी. शिखामणी, पूर्व कुलपति, डॉ. वाईएसआरएयू, वेंकटरामनगुडम (आंध्रप्रदेश) विशिष्ट अतिथि थे। समारोह में डॉ. डब्ल्यूएस ढिल्लों और डॉ. टी. जानकीराम, सहा. महानिदेशक (बागवानी विज्ञान) सम्माननीय अतिथि थे। सम्मेलन के दौरान संस्थान की ओर से प्रकाशित पांच प्रकाशनों — सम्मेलन स्मारिका, ई-बुक ऑफ एब्सट्रैक्ट, संस्थान के रजत जयंति के उपलक्ष में इंडियन हॉर्टिकल्चर का विशेष अंक, हिंदी पत्रिका मरु बागवानी और मिट्टी और जल प्रबंधन पर एक पुस्तक का विमोचन किया गया।



राष्ट्रीय सम्मेलन के दौरान मंचासीन डॉ. त्रिलोचन महापात्र, सचिव, कृषि अनुसंधान एवं शिक्षा विभाग और महानिदेशक, भारतीय कृषि अनुसंधान परिषद्, नई दिल्ली; डॉ. आनंद कुमार सिंह, उप महानिदेशक (बागवानी विज्ञान), भाकृअनुप, नई दिल्ली; डॉ. कीर्ति सिंह, पूर्व अध्यक्ष, एसएसआरबी, नई दिल्ली; पद्मश्री डॉ. ब्रह्मा सिंह, डॉ. एस.डी. शिखामणी, पूर्व कुलपति, डॉ. वाईएसआरएयू, वेंकटरामनगुडम (आंध्रप्रदेश), डॉ. डब्ल्यूएस ढिल्लों, डॉ. टी. जानकीराम, सहा. महानिदेशक (बागवानी विज्ञान) एवं प्रो. (डॉ.) पी. एल. सरोज, निदेशक, भाकृअनुप-केशुबासं, बीकानेर।

इस अवसर पर संस्थान के पूर्व निदेशकों डॉ. ओ. पी. पारीक, डॉ. जी. बी. रतूड़ी, डॉ. टी. ए. मोरे, डॉ. एस. के. शर्मा का सम्मान भी किया गया। पूर्व निदेशक स्व. डॉ. डी. जी. धन्वर के नाम से बागवानी में लाईफ टाईम एचीवमेंट नाम से एक पुरस्कार आरंभ किया गया जो डॉ. आर. के. पाठक, पूर्व निदेशक भाकृअनुप-केजबासं, लखनऊ को प्रदान किया गया।

पखवाड़ा/सप्ताह/दिवसों का आयोजन/मनाना

- विश्व मृदा स्वास्थ्य दिवस का आयोजन : दिनांक 05 दिसम्बर,

2018 को बीकानेर जिले के खींचियां गांव (4केएचएम) में विश्व मृदा स्वास्थ्य दिवस का आयोजन किया गया। इस अवसर पर 100 से अधिक किसान/वैज्ञानिक और खेतीहर श्रमिक उपस्थित थे।



● **किसान दिवस** : दिनांक 23 दिसम्बर, 2018 को बीकानेर जिले के कोलासर गांव में एक किसान दिवस का आयोजन किया गया। इसमें 100 से अधिक किसान/ वैज्ञानिक और खेतीहर श्रमिकों ने भाग लिया।

संस्थान में विभिन्न महत्वपूर्ण /गणमान्य व्यक्तियों का आगमन

डॉ. त्रिलोचन महापात्र, सचिव, कृषि अनुसंधान एवं शिक्षा विभाग और महानिदेशक, भारतीय कृषि अनुसंधान परिषद्, नई दिल्ली ने दिनांक 02 अक्टूबर, 2018 को संस्थान का भ्रमण कर अनुसंधान गतिविधियों का अवलोकन एवं निरीक्षण किया। इस अवसर पर डॉ. महापात्र ने संस्थान द्वारा तैयार ऊतक संवर्धित खजूर के पौधे का रोपण किया। उन्होंने संस्थान द्वारा विकसित काचरी की किस्म एएचके-119 के बारे में जानकारी प्राप्त की और इस किस्म को मिल रही लोकप्रियता की प्रशंसा की।

राजभाषा गतिविधियां

हिंदी चेतना पखवाड़ा आयोजन :

भाकृअनुप-केन्द्रीय शुष्क बागवानी संस्थान में दिनांक 14 से 29 सितम्बर 2018 के दौरान हिंदी चेतना पखवाड़ा का आयोजन किया गया। इसका आरंभ हिंदी दिवस के अवसर पर किया गया। दिनांक 29 सितम्बर 2018 को चेतना पखवाड़ा का समापन किया गया। चेतना पखवाड़ा के दौरान कुल 06 गतिविधियों का आयोजन किया गया था। इनमें प्रथम, द्वितीय और तृतीय स्थानों पर रहे प्रतिभागियों को पुरस्कार प्रदान किया गया। इनके अतिरिक्त संस्थान में हिन्दी में सबसे अधिक प्रशासनिक कार्य करने वाले कर्मचारियों भी पुरस्कार दिया गया। हिन्दी के प्रति जागरूकता लाने के उद्देश्य से संस्थान ने बीकानेर स्थित राजकीय महारानी उच्च माध्यमिक विद्यालय तथा राजकीय उच्च माध्यमिक विद्यालय इंगानप के माध्यमिक परीक्षा में हिंदी विषय में सर्वाधिक अंक प्राप्त करने वाले विद्यार्थियों को भी सम्मानित किया गया।

● **हिन्दी कार्यशाला आयोजन** : पहली तिमाही कार्यशाला 26.09 2018 को तथा दूसरी 31 दिसम्बर 2018 को आयोजित की गई थी।

● **राजभाषा कार्यान्वयन समिति की बैठक** : इस अवधि के दौरान पहली बैठक 04.09.2018 को तथा दूसरी 06.12.2018 को आयोजित की गयी थी।

● **संस्थान द्वारा प्रकाशित प्रकाशन** : संस्थान की स्थापना के 25 वर्ष पूर्ण होने के उपलक्ष में इस वर्ष को रजत जयंती वर्ष के रूप में मनाया गया और हिंदी व अंग्रेजी के कुल 25 प्रकाशन निकाले गए।



पुरस्कार/ सम्मान

● संस्थान को वर्ष 2018 के दौरान नगर राजभाषा कार्यान्वयन समिति, बीकानेर ने हिंदी में किए गये बेहतर कार्य के लिए प्रशस्ति पत्र प्रदान कर सम्मानित किया।

● संस्थान को वर्ष 2018 के दौरान भारतीय कृषि अनुसंधान परिषद्, नई दिल्ली ने संस्थान द्वारा राजभाषा हिंदी में किए गये सर्वश्रेष्ठ कार्य हेतु राजर्षि टंडन राजभाषा पुरस्कार 2016-17 (द्वितीय) प्रदान किया गया।



भाकृअनुप का वर्ष 2016-17 का राजर्षि टंडन राजभाषा पुरस्कार (द्वितीय) प्राप्त करते हुए संस्थान के निदेशक प्रो. (डॉ.) पी. एल. सरोज एवं सहा. मुख्य तकनीकी अधिकारी (राजभाषा) श्री प्रेम प्रकाश पारीक।

संस्थान के विकास की गतिविधियां

पुस्तकालय भवन का शिलान्यास



दिनांक 03.10.2019 को डॉ. त्रिलोचन महापात्र, सचिव, कृषि अनुसंधान एवं शिक्षा विभाग और महानिदेशक, भारतीय कृषि अनुसंधान परिषद्, नई दिल्ली; डॉ. जे. के. जेना, उप महानिदेशक (मत्स्य एवं पशुपालन विज्ञान), भाकृअनुप, नई दिल्ली; डॉ. ओ. पी. यादव, निदेशक, काजरी, जोधपुर एवं प्रो. (डॉ.) पी. एल. सरोज, निदेशक, भाकृअनुप-केशुबासं, बीकानेर के साथ पुस्तकालय के नए भवन की आधारशिला रखी।

बाल उद्यान का उद्घाटन

संस्थान की आवासीय कालोनी में नव निर्मित बाल उद्यान का उद्घाटन दिनांक 27.10.18 को डॉ. आनंद कुमार सिंह, उप महानिदेशक (बागवानी विज्ञान), भाकृअनुप, नई दिल्ली के द्वारा किया गया। इस अवसर पर संस्थान के निदेशक प्रो. (डॉ.) पी. एल. सरोज एवं अन्य वैज्ञानिक भी उपस्थित थे।



प्रकाशक	प्रो. (डॉ.) पी. एल. सरोज, निदेशक, भाकृअनुप-केन्द्रीय शुष्क बागवानी संस्थान, बीकानेर (राजस्थान)
संकलन एवं सम्पादन	डॉ. शिवराम मीना श्री प्रेम प्रकाश पारीक सुश्री राम्याश्री डी. जी. एस.
शब्द-सज्जा छायाचित्रण	श्री भोजराज खत्री श्री संजय पाटिल