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Hon'ble Vice Chancellor's Message

Global food security is one of the most critical issues for humanity, and agricultural production is critical for achieving this. Plant and animal diseases, environmental degradation and climate change are all pressing issues affecting the global population. By 2022, India is predicted to have the largest population in the world, surpassing China. With the massive growth in the world population, the farmers are diverted to the advanced and smarter techniques that can enhance success with maximum utilization of land, water and energy to feed the planet and evade the global food crisis. Robotics and artificial intelligence (AI) are developed that could be employed successfully in several industries, and now, it is set to revolutionize the future of farming with drones, robots and intelligent monitoring systems.



Robotics is mechanical instrument supported with computerized programme to execute a task in proper way with speed and precision at field level. To fulfill the requirement of food thrive, it is the need to scale up the farm operations by using automation technology in the farm. Robots and drones are now an integral part of the agricultural industry and assisting farmers to increase farm yield, reduce cost of production with the quality product. Spraying pesticides and herbicides into fields is not only wasteful; it can severely harm the environment. Robots provide a much more efficient method. Use of robotics for thinning and pruning will be very much useful to farmers. Harvesting of fruits and vegetables and picking can be done precisely with robotics with cutting the cost. There is great development using collaborative robots in animal husbandry which help in the milking process on dairy farms as well as for veterinarian in operations precisely and also for pharmacists in screening of drugs for human and animals as huge pressure for development of newer drugs for better health in prime need.

Artificial Intelligence (AI) is the only tool for better farm production, which empowers farmers for monitoring weather, farm environment and crop growth. Robotics and artificial intelligence serve very different purposes. Use of artificial intelligence in agricultural sciences will change future process of crop production and it is the prime need in today's time due to global environmental transformation. The requirement of farming community at this level is to enhance the success by monitoring the macro environment nearby crop and to regulate the task very precisely for better production. Use of past data related to morphology of plants and environmental conditions can be used for better prediction as well as for preventive measure to increase chance of success in crop production.

Artificial intelligence is the future of the agriculture, but unfortunately with some challenges in India AI technology needs to be customized according to requirement of Indian farming community. Animal husbandry is becoming a data-centric business powered by artificial intelligence. An intelligent cow breeding system can detect contagious viral disease in livestock with more accuracy. The system is being adopted with automatic milking machines and feeding robots. Several dairy farms in foreign countries are using the system along with wearable devices to fine-tune milking and feeding.

A. R. Pathak

Fourteenth Annual Convocation

Glimpses of 14th Annual Convocation

In beautiful morning of December 28, 2018; the JAU campus became vibrant with students came for degrees in convocation. The campus was adorned on this grand auspicious function of prime activity, education, of JAU. The convocation program started with welcome address of Dr. A R Pathak, Hon'ble Vice Chancellor of JAU. He presented the glimpses of activities and achievements of JAU for the period of 2017-18 and the remarkable multifaceted success in teaching, research and extension activities impressed the audience.



Hon'ble Vice Chancellor Dr. A. R. Pathak welcoming the dignitaries, students and guests

Shri Om Prakash Kohliji, Hon'ble Governorshri of Gujarat and Hon'ble Chancellor of University conferred degrees to Graduates and Post Graduate students of various Faculties of JAU. A total 58 Gold Medals/Gold Plated Silver Medals including 03 Chancellor's Gold Medals, 04 Vice Chancellor's Gold Medals, 51 Donors' Gold Plated Silver Medals and 02 cash prize awarded to 20 graduate and post graduate students of different faculties for their brilliant academic performance.



On this highest academic occasion, Best teacher Award was given to Dr. D. R. Mehta, Associate Professor, Department of Genetics and Breeding, College of Agriculture, Junagadh for the academic year 2017-18.



Three publications prepared by different Scientists of JAU were released by Hon'ble Governorshri, Hon'ble Vice Chancellor and esteem dignitaries on this auspicious occasion.



Hon'ble Shri R. C. Faldu, Minister of Agriculture, Rural Devpt., Fisheries and Transport, Govt. of Gujarat appreciated achievements of JAU and highlighted the scope and challenges in agriculture sector in Gujarat. He gave an account of fascinating achievements in agricultural development of state supported with facts and figures. Also, he advised degree recipients to serve the society and contribute in the development of nation.



Dr. P. K. Mishra, Hon'ble Additional Principal Secretary to Hon'ble Prime Minister, Govt. of India and Chief Guest of function delivered convocation address. He ignited the minds of the scientists, teachers and students of JAU in taking Indian agriculture to new horizons and gave emphasize to use their skill and expertise for the Hon'ble Prime Minister Shri Narendra Modi's flagship programme "Doubling the farmers' income by 2022" to mark 75 years of India's independence. This is a major shift in our approach, a clear focus on farmer and farmer welfare, rather than simply production and productivity. He advised the



Graduates to apply knowledge into action and bring more accuracy and perfection in given task which ultimately bring joy and happiness in Indian farming community.

Hon'ble Chancellor Shri O. P. Kohliji appreciated students for their academic excellencies and asked them to solve the constraints faced by our farmers by making new innovation in agriculture to serve the farming community. He blessed all the degree recipients for the success in future endeavours.



Dr. V. P. Chovatia, Registrar, followed the prescribed procedure of convocation. He thanked dignitaries, all the members of Board of Management, Academic Council and Board of studies of JAU, Vice Chancellors of all the SAUs of Gujarat, Shri Sanjay Prasad, Chief Secretary, Agriculture, Government of Gujarat, Officers from the line department, faculty members of JAU, renowned educationists and leaders of Junagadh, Media personnel, Guests and students of JAU.



Inauguration of *Krishi Darshnalaya*

Under the guidance and untiring efforts of Dr. A. R. Pathak, Hon'ble Vice Chancellor, JAU, Junagadh and Director of Extension Education, Dr. P. V. Patel a state of art and newly modernized "*Krishi Darshnalaya*" (Educational Museum) at Junagadh Agricultural University campus was inaugurated by Shri Om Prakash Kohliji, Hon'ble Governorshri, Gujarat State on 28th December, 2018. Shri R. C. Faldu, Hon'ble Minister of Agriculture, Rural Development, Fisheries and Transport, Government of Gujarat; Dr. P. K. Mishra, Additional Chief Secretary to Hon'ble Prime Minister, Government of India, Shri Sanjay Prasad, Chief Secretary Agriculture, Government of Gujarat, Dr. A. R. Pathak, Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh, Dr. C. J. Dangaria, Hon'ble Vice Chancellor, Navsari Agricultural University, Navsari and Dr. P. V. Patel, Director of Extension Education, JAU, Junagadh remained present. In this museum information on Agriculture, Horticulture, Agricultural Engineering, Animal Husbandry, Fisheries and all other faculties is accessible.



Inauguration of *Krishi Darshnalaya* by Shri Om Prakash Kohliji, Hon'ble Governorshri



Glimpses of *Krishi Darshnalaya* given by Dr. A. R. Pathak, Hon'ble Vice Chancellor

Unveiling of Sardar Patel Statue

A statue of Sardar Vallabhnbhai Patel, Iron Man of India was unveiled by Hon'ble Minister of State (Agri.), Govt. of India, Shri Parshottambhai Rupala. Dr. A. R. Pathak, Hon'ble Vice Chancellor, JAU, Director of Research, Dr. V.P. Chovatia, Director of Extension Education, Dr. P.V. Patel, Shri Sanjaybhai Koradiya, Shri Shashikant Bhimani and Shri Punit Sharma grace the function.



Celebration of "Sardar Patel Jayanti"

147th birth Anniversary of Iron Man of India Shri Sardar Vallabhbhai Patel was celebrated at Sardar Smruti Kendra (SSK) on 31st October, 2018. On this occasion Dr. A. R. Pathak, Hon'ble Vice Chancellor; Dr. V. P. Chovatia, Director of Research, Dr. P. V. Patel, Director of Extension Education, all principal and deans of JAU, prominent social leaders Shri Shaileshbhai Dave, Shri Lalitbhai Suvagiya, Shri Dhirubhai Purohit, staff members and students of JAU were remained present and a floral tribute were given to the statue of Shri Sardar Vallabhbhai Patel at SSK.



Hon'ble Vice Chancellor, JAU, Junagadh giving tribute to the Iron Man of India



Oath on national unity was taken by University officers, Dignitaries and staff of JAU

Unveiling of Dr. Babasaheb Ambedkar Statue

A statue of Bharat Ratan, Dr. Babasaheb Ambedkar was unveiled by Shri Om Prakash Kohliji, Hon'ble Governor Shri, Gujarat State on 28th December, 2018. Shri R. C. Faldu, Hon'ble Minister of Agri., Rural Develop. Fisheries and Transport, Govt. of Gujarat, Dr. P. K. Mishra, Addi. Chief Secretary to Hon'ble Prime Minister, Govt. of India, Shri Sanjay Prasad, Chief Secretary, Agriculture, Government of Gujarat, Dr. A. R. Pathak,



Hon'ble Vice Chancellor, Junagadh Agricultural University, Dr. P. V. Patel, Director of Extension Education, JAU, Junagadh, Shri D. K. Chavda, Chairman of JAU SC/ST cell, Shri Pareshbhai Dafda and Shri Devenbhai Vanvi of Saurashtra Dalit Association remained present at this memorable occasion.

Our Valued Visitors

Hon'ble Union Minister, Shri Parshottambhai Rupala visited our Fisheries Res. Station, Okha

Hon'ble Union Minister of State for Agriculture and Farmers' Welfare, Panchayati Raj, Govt. of India, Shri Parshottambhai Rupala visited the Fisheries Research Station, JAU, Okha on 7th October, 2018. He visited different units, museum and hatchery unit and congratulated the staff for their keen work. He interacted with the scientists and advised to play a vital role in the fisheries development at coastal area of Gujarat.



Hon'ble Union Minister, Shri Parshottambhai Rupala interacting with scientists

ICAR/AICRPScientist at JAU

Dr. R. K. Singh, Assistant Director General (Commercial Crops), ICAR, New Delhi, Dr. V. N. Waghmare, Director, ICAR-CICR, Nagpur, Dr. A. H. Prakash, Project Coordinator and Head, Coimbatore and Dr. M. V. Venugopalan, Head, PME cell and Principal Scientist, ICAR-CICR, Nagpur visited and observed our Cotton Research Stations at Junagadh.



Dr. Lakhan Singh, Director, ATARI, Pune and Dr. P. V. Patel, DEE, JAU, Junagadh visited KVK, Targhadia on 6th Dec., 2018. Dr. B. B. Kabaria and KVK Scientists introduced them about KVK Activities. They visit training hall, vermicompost and roof water harvesting unit, etc. They appreciated efforts of scientists in developing models.



AICRP monitoring team with Dr. S. Manickam (Pl. Breeder), Coimbatore; Dr. Rathod, (Crop production), PDKV, Akola, Dr. Nemade (Ento.), PDKV, Akola, Dr. S.K. Sain (Patho.) Sirsa, and Dr. M. Sabesh, (Social Sci.), Coimbatore visited at CRS, JAU, Junagadh during 26-27 October, 2018.



National Seminar /Conference/ Training

Strengthen Women's Role in Doubling Farmers Income & Sustainable Development

A National level seminar on "Strengthening Women's Role in Doubling Farmers' Income and Sustainable Development" was jointly organized by JAU, Junagadh, NCCSD and Vigyan Prasar - Noida on 22nd October, 2018 at JAU, Junagadh. During the inaugural function, Hon'ble Minister of State (Agriculture), Govt. of India, Shri Parshottambhai Rupala; Dr. A. R. Pathak, Hon'ble Vice Chancellor, JAU; Director of Research, Dr. V.P. Chovatia; Director of Extension Education, Dr. P.V. Patel, Shri Devabhai, MLA (Keshod), Shri Sanjaybhai Koradia remained present. More than 275 farm women of different villages of *Saurashtra* region got benefitted in the seminar.



Shri Parshottambhai Rupala, Hon'ble Minister of State (Agri.), GoI addressing the participants

Entrepreneurship training programme (Under IDP) on "Pet spa and Pet behavioural issues"

The Entrepreneurship training programme on "Pet spa and Pet behavioural issues" was organized at College of Veterinary Science and Animal Husbandry, JAU, Junagadh under Institutional Development Plan on 3rd December, 2018. Dr. Arvind Kotecha, DVM, Canada remained present as chief guest in the programme. Dr. P. H. Tank, Principal and Dean, College of

Veterinary Science and Animal Husbandry, JAU, Junagadh, Dr. P. Mohnot, Asso. Director of Research, Dr. A. Y. Desai, Principal and Dean, College of Fisheries Science, JAU, Veraval, Dr. P. M. Chauhan, I/c Principal, College of Agri. Engineering & Technology and Dr. M. A. Vadodaria, I/c Principal College of Agriculture, JAU, Amreli grace the occasion. In the programme various Pet owners participated and benefitted. Dr. Arvind Kotecha, DVM, Canada shared his experiences and highlighted significance of *pet* practice abroad. He also encouraged and guided UG Students for such entrepreneurship. *Pet* owners were guided on various aspects of its management including mouth wash, nail trimming, hair clipping, grooming, shampooing, perfuming, dental scaling, dental polishing, ear cleaning, deticking, medicated bath/*Spa*, general health checkup, deworming and vaccination. UG Students were benefitted by hands on training during the programme. Afternoon sessions included lectures based on field experiences shared by private veterinary practitioner, Dr. Mithun Khataria, alumni of this college. Another lecture was by Ms. Nidhi S. Mehta who delivered her talk on *Pet* behaviour which was very useful for the students facing different types of *pets* in the clinics during their VCP classes at TVCC. About 53 *pets*, 38 *pet* owners, 42 faculties, 71 UG Students and 20 PG students participated in the programme.



Dr. Arvind Kotecha, DVM, Canada interacting with *pet* owners

ZREAC Meeting

The 28th Zonal Research and Extension Advisory Committee (*Rabi-Summer*) meeting of South Saurashtra Agro-climatic Zone was held at JAU, Junagadh during October 05-06, 2018. The body of ZREAC includes scientists from different disciplines of JAU, officers from line departments as well as progressive farmers of the region. Results of the projects as well as suggestions for new technical programs for future research work were discussed. It is the multidisciplinary task to evaluate the research results of different disciplines. In this meeting, 18 recommendations for farmers, 13 for scientific community and 56 new technical programmes were approved for *Rabi-Summer* season for South Saurashtra Agro-climatic Zone.

Celebration of Mahatma Gandhi Jayanti

50th birth anniversary of Mahatma Gandhi has been celebrated at Polytechnic in Agriculture, JAU, Dhari by NSS unit. The celebration began with cleaning of hostel, hospital and temple etc. at Dhari. The celebration was containing songs, speeches about Mahatma Gandhi which includes how Mahatma Gandhi was struggled for the independence of our country named INDIA. Different events were also conducted for students like quiz, elocution competition, cleanliness and painting. It was followed by a prize distribution ceremony for the winners of different events. At the end the principal gave a very useful speech about Gandhi's work and advised all the students to obey those rules and to apply those in our daily life. About 80 NSS volunteers were interestingly participated in this event.



Celebration of Gandhi Jayanti by doing cleanliness in the campus

Gandhi Jayanti was celebrated on 2nd October, 2018 by our College of Agriculture, Khapat (Porbandar). This day was celebrated to aware about the life of Mahatma Gandhiji in the guidance of Dr. R.K. Odedara, Principal, College of Agriculture, Khapat. All the professors did prayer, services and gave tributes to the Mahtma Gandhi. Painting, debate and essay competitions were conducted. Students were inspired non-violent way of life. They also remember Mahatma's effort in the Indian independence movement.



Students were aware about life of Shri Mahatma Gandhi at CoA, Porbandar

Vigilance Awareness Week

"Vigilance Awareness Week" was celebrated at Krishi Vigyan Kendra, JAU, Porbandar from 28th October to 3rd November, 2018. Various activities were undertaken by KVK during the celebration. The programme like display banner of Vigilance Awareness at public places; aware people about corruption and its detrimental effect on our economy; organize debate competition among rural youth etc. Staff of KVK & COA, Porbandar actively participated in this programme.

Training to Students

Leadership and Entrepreneurship Development

A Training Programme on 'Leadership and Entrepreneurship Development' was jointly organized by National Council for Climate Change and Sustainable Development and Public Leadership (NCCSD) and Junagadh Agricultural University on 19th and 20th November 2018 at Polytechnic in Home Science, Amreli and College of Agriculture, Mota Bhandariya. This training programme was organized for both the above mentioned institutes of JAU with the guidance and support of Dr. S. M. Upadhyay, Director of Student's Welfare and Dr. J. N. Vyas, Principal of Polytechnic in Home Science. Dr. Mamta Kumari, Assistant Professor and NSS Programme Officer, Polytechnic in Home Science welcomed the esteemed guests on inaugural function. Dr. I. R. Rathore, Dr. R. S. Patel, and Mr. Hetal Pathak were the main guests who organized this training. Mr. V. A. Savaliya, NSS Programme officer, College of Agriculture, Mota Bhandariya and staff members and girls of Polytechnic in Home Science, Amreli and College of Agriculture, Mota Bhandariya were present to attend this training.

The major objectives and topics of lectures of training programme were leadership development, personality development, and entrepreneurship development, art of public speaking, goal setting, team building and self management. Around 60 girls participated and get benefitted with this training. On day 2, a script of a role play entitled '*Sukanya*' was handed over to the girls in two groups. It was performed as a competition. Role play was evaluated by the jury members. Girls of Polytechnic in Home Science performed this role play very well and won the 'General Winners Trophy' and 'Individual Best Performer Trophy'.

On valedictory, Dr. S. M. Upadhyay, Director of Students' Welfare, JAU, Junagadh remained present as Chief Guest. Other than him, all the organizers; Dr. M. A. Vadodariya, Principal & Dean, College of Agriculture, Mota Bhandariya; Dr. M. L. Patel, Subject Matter Specialist of KVK, Amreli were remained

present in the programme. Dr. J. N. Vyas, Principal, Polytechnic in Home Science, Amreli gave motivation throughout the programme and she also helped in organization and implementation of the programme. A feedback Performa was also given to students to give their views on training. A certificate was also given to all the participants.



Participant's interaction and learning

Personality Development & Employability Skills

A Workshop was organized on “Personality Development and Employability Skills” for B.Tech (Agril. Engg.) students arranged by Director of Students' Welfare, Junagadh Agril. University, Junagadh at Seminar hall of Biotechnology dept. on 22nd Nov. 2018. Ms. Nishaben Butani, International Transformational Coach, Mumbai and Ex. Managing Director, Robotech India Pvt. Ltd. (Swiss MNC) has undertaken the different activities related to personality development and employment skills during this workshop. The workshop was a great success about 42 students participated in the workshop.

Swachhta Pakhwada

As per Indian Council of Agricultural Research (ICAR) guidelines, *Swachhta Pakhwada* was celebrated from 16th to 31st December, 2018 at Krishi Vigyan Kendra, Porbandar. In this event, daily cleanliness related activities were done on different aspects. Staff of Krishi Vigyan Kendra & College of Agriculture, Porbandar were participated in this activities. On this event various activities like display banner of *Swachhta Pakhwada* at public place in Porbandar; cleaning of office and its premises; sanitation drive at nearby village Khapat; drawing competition among rural youth etc. were organized. Farmers & farmwomen were aware about *Swachhta* Mission and its importance on every event organized at KVK, Porbandar.



Celebration of National Integrity Day

Polytechnic in Agriculture JAU, Dhari celebrated Birth anniversary of Sardar Vallabh Bhai Patel as Rashtriya Ekta Diwas (National Unity Day) on 31/10/2018 with the presence of Mrs. Varshaben Chovatiya (Professor, Yogiji College Dhari), Dr. A. D. Rathod (Associate Research Scientist, Grass Land Research Station, JAU, Dhari) and other staff members of college. The event was started with welcome address by Shri. M. C. Chauhan (Program officer), prayer and NSS song followed by floral tribute to the photo of Sardar Vallabh Bhai Patel. Then an oath on national unity was taken by the students. A special lecture was taken on Sardar Patel-His Life, Achievements and contribution to the independence India by chief guest of the event Mrs. Varshaben Chovatiya (Professor, Yogiji College Dhari). Dr. A. D. Rathod also encouraged students with the speech dedicated to Sardar Vallabh Bhai's contributions to the nation. And lastly the event ended with vote of tanks to all the participants by Prof. Trupti Dodiya.



An oath on national unity was taken by the students of Polytechnic, Dhari

Celebration of Constitution Day

The constitution day was celebrated at College of Agriculture, JAU, Khapat-Porbandar to commemorate the 26th November 1949. On this day our constitution was adopted by Constituent Assembly of India and it was came into effect on 26th January 1950. This day was celebrated to aware the students of college about our constitution in the guidance of Dr. R.K. Odedara, Principal, College of Agriculture, Khapat. All the professors had delivered their speeches on Indian Constitution. Later on the quiz and debate competition were organized for the students on Indian Constitution. Some students of college also shared their views about the Indian Constitution. The students also found this celebration useful so that they came to know about some information on Indian Constitution and the leaders who really worked very hard to make our Indian Constitution.

Constitution Day was also celebrated at our Polytechnic in Agriculture on 26/11/2018 by a gazette notification in remembrance of the Father of Indian Constitution,

Dr. B R Ambedkar with the presence of Sri. M. C. Chauhan (Programme Officer), Prof. Trupti P. Dodiya (Assistant Professor), Sri R. M. Sarvaiya (Rector), Sri N. P. Rathod (Agriculture Officer) and A. M. Vamja (Sr. Clerk). Celebration was started with prayer followed by an oath on preamble taken by the students. Then came the culmination of the ceremony—a speech on our constitution which took us on a journey of our constitution from its history to its present day form and its vital role to bring together an idea called India. The constitution of India is very unique all over the world and has taken around 2 years, 11 months and 17 days to pass by the Constituent Assembly. After that one documentary film has been shown on our constitution to enhance the awareness of the students about constitution. The celebration was ended with National Anthem.

Celebration of World Soil Health Day

KVK, Amreli

World Soil Health day was celebrated on 5th December 2018 at KVK, Amreli and 124 farmers and farm women take part in the precious day. Several programme like Power point presentation, Exhibition, distribution of soil health cards and pamphlets were organized during the programme. The chief guest of the programme was Honorable member of parliament Shri Narayanbhai Kachhadiya. In the beginning of the programme our DEE sir, Dr, P.V. Patel Sir deliver remarkable information to farmers regarding soil and related problems. After that many advantageous information was shared by Scientist to farmers and farm women.



Shri Narayanbhai Kachhadiya, Hon'ble member of parliament, addressing the farmers

KVK, Jamnagar

On 5th December, 2018 Krishi Vigyan Kendra, JAU, Jamnagar celebrated World Soil Health Day in collaboration with State Agricultural Department and ATMA Project Jamnagar at Training hall, KVK, Jamnagar. Programme was inaugurated by Dr. D. L. Kadvani, Research Scientist (Pearl Millet), Pearl millet Research Station JAU, Jamnagar, Dr. K. P. Baraiya, Senior Scientist & Head, KVK, JAU, Jamnagar, Mr. C. O. Laskari, DAO, Jamnagar. During

this programme a number of activities like Farmer-Scientist Interactions, Exhibitions on soil health management, soil sampling and soil testing demonstrations, plant nutrient deficiency diagnostics and advisories for balanced nutrition of crops, field visits and distribution of soil health cards were organized on the occasion. Total 119 farmers from KVK jurisdiction were present for this programme.

KVK, Targhadia

On 5th December, 2018 World Soil Health Day was celebration at Krishi Vigyan Kendra, Rajkot-I. Total 53 farmers were participated in this event. KVK Head Dr. B. B. Kabaria, Dr. J. H. Chaudhary, Smt. H. H. Padsumbiya, Mr. D. P. Sanepara and officers from GSFC, GNFC were present and they introduced farmers about soil health, SHC and how to improve soil fertility. Dr. J. H. Chaudhary conducted field visit, soil and water testing laboratory and practical demonstration for how to collect soil and water sample. Also SHC distribution was conducted to selected farmers of Rajkot district.



Scientist demonstrating soil sampling methods

KVK, Pipaliya

World Soil health day was organized by KVK Pipaliya on 5th December 2018 at KVK Campus covering 200 farmers and farmwomen from four different Talukas of Rajkot district namely Dhoraji, Gondal, Upleta and JamKandorna. Different scientist from KVK Pipaliya had delivered a lecture on the importance of soil testing and its fertility on the agriculture productivity and soil health. Dr P J Gohil, Training Associate, DEE, Junagadh Agricultural University Junagadh was also present and grace the occasion by addressing the group on the occasion.

KVK, Porbandar

“World Soil Health Day” was celebrated at Krishi Vigyan Kendra, JAU, Porbandar on 5th December, 2018. This event was celebrated with co-ordination of ATMA, Porbandar and Department of Agriculture, Porbandar. Shri. M. A. Pandya, Collector, Porbandar; Shri Vijay Dahiya, DDO, Porbandar; Shri Nileshbhai Mori, President, Jilla Panchayat, Porbandar; Shri, J. N. Parmar, DAO, Porbandar; Shri R. S. Gohil, Dy. DAO (Training), FTC, Porbandar and ATMA staff of the

district remain present. Total 150 farmers & farmwomen participated in this event. On this occasion, soil health card was distributed to the farmers and various lectures on soil fertility and its health was delivered by concerned subject matter specialists of the Krishi Vigya Kendra.

KVK, Nana Kandhasar

World Soil Day was celebrated at Krishi Vigyan Kendra, Nana Kandhasar on 5th December 2018. The celebration was attended by 111 farmers from Surendranagar. Shri M. F. Bhoraniya, Senior Scientist and Head enlightened importance of soil microbes in maintaining the soil health and productivity and also explained the importance of celebration of World Soil Day as soils provide plants with essential minerals and nutrients. Shri P. M. Dabhi, Assistant Director of Agriculture, Surendranagar emphasized upon the importance of soil in agricultural productivity and highlighted the need for regular testing of soils for optimum use of chemical fertilizers and better soil management practices in the district. Scientists of KVK delivered the lecture on soil health management and also explained the importance of soil testing. A kisan ghoshti was also organized and scientists and officers replied to various queries raised by the farmers

Celebration of Mahila Kisan Divas

KVK, Jamnagar

Krishi Vigyan Kendra, JAU, Jamnagar and ATMA Jamnagar jointly organized Mahila Kisan Divas on 15th October, 2018 at KVK, JAU, Jamnagar. In this programme arranged lectures on Kitchen Gardening, Value addition, Income generation activity, Organic farming, Drudgery reduction Technology and IPM in vegetable crops. 148 farm women were actively participated in this programme. Dr. A. R. Pathak, Hon'ble Vice Chancellor, Prasasthi Parik, District Development Officer, Jamnagar, Dr. P. V. Patel, DEE remain present in this programme. Quiz competition related to Farm, animal husbandry and debates on Animal keeping and Group discussion on role of women in agriculture were arranged. Farm women visited to demonstration unit, Museum and KVK field.



Hon'ble Vice Chancellor, JAU, Junagadh addressing the farm womens

KVK, Pipaliya

Mahila Kisan Diwas was organized by KVK Pipaliya on 15th October 2018 at Talangna Village of Upleta Taluka covering 125 farmwomen and had a good group discussion among the beneficiaries regarding their importance in agriculture, role of women empowerment to enhance agricultural productivity and importance of gender sensitization. also Ms. V R Parmar, ASI Upleta was also present and grace the occasion



KVK, Targhadia

Krishi Vigyan Kendra, JAU, Targhadia organized Kisan Mahil Divas on 15th October 2018 at Movaiya village of Paddhari Taluka. Total 32 farm women participated in this programme. Training and a group discussion was organized to emphasis on their role in agriculture and all other activities. In the training given information regarding Kitchen Garden, Women and child health, Women improvement, Value addition of different fruit crops etc. Dr. M. M. Tajpara, Scientist (Animal Science) given a speech on Dairy Farming.

KVK, Porbandar

Mahila Kisan Divas was celebrated at Krishi Vigyan Kendra, JAU, Porbandar on 15th October, 2018. On this occasion Shri. Virambhai Karavadara, Board Member, Kamdhenu University, Gandhinagar; Shri Nileshbhai Mori, President, District Panchayat, Porbandar and ATMA staff of the district remains present. Total 92 farmwomen participated in this programme. Various competitions like cooking and *Rangoli* making were also organized on this occasion. Dr. R.K. Odedra welcomed guests and talk about importance of this day. Shri Virambhai Karavadara gives speech on importance of women in our agriculture system. Shri Nileshbhai Mori talks about women empowerment. Lectures delivered by various scientists on different topics like drudgery reduction in farmwomen; care of cattle & baffles etc. Dr. P.S. Gorfad, Asso. Prof., perform the vote of thanks.

KVK, Amreli

Krishi Vigyan Kendra, JAU, Amreli, celebrated Kisan Mahila Divas on 15th October 2018 by organizing different activities i.e. Different types of lecture like, problem in cotton seeds, organic farming needs of today's generation, Information on ATMA project,

Information on Agriculture and other allied courses viz., horticulture, agricultural engineering, animal science, fisheries science, agri-business management, etc. related programmes running under Junagadh Agriculture University. A drawing competition for the participants for arranged on this occasion. In drawing competition first, second and third price was also distributed among the participants.

Celebration of *Kisan Divas*

KVK, Targhadia

On 23rd December 2018 “Kisan Divas” was celebration at Krishi Vigyan Kendra, Rajkot-I. Total 181 farmers and farm women were participated in this programme. Total 53 Progressive farmers were honored with certificate & mementos by KVK. Who have done specific contribution in Agriculture, Horticulture, Animal Science, Value addition etc. Dr. D. S. Hirpara, Research Scientist, DFRS, Targhadia, Mrs. H. H. Padsumbiya, I/C Senior Scientist and Head, KVK, Targhadia, Dr. J. H. Chaudhry, Scientist (Agronomy), Mr. D. P. Sanepara, Scientist (Agri. Eng.) , Dr. M. M. Tajpara, Scientist (Animal Science) and officers companies were present in this event. Also some farmers shared their views on innovativeness and cleanliness drive in Agriculture.



KVK, Porbandar

“Kisan Divas” was celebrated at Krishi Vigyan Kendra, JAU Porbandar. On this occasion total 40 farmers were remained present. Staff of Krishi Vigyan Kendra & College of Agriculture also remained present on this programme. Shri V.M.Savaliya, Scientist, KVK, welcomes farmers and discuss about importance of this day & why it is celebrated. Dr. R. B. Vadher, Asso. Prof., COA, delivered lecture on pest & disease management in *Rabi* crops. Farmers also discuss about their current problems & issues related to agriculture as well as animal husbandry. Dr. H.A. Patel, Scientist, KVK, delivered lecture on health management of cattle & buffalo. Dr. R.K. Odedra, Senior Scientist & Head, KVK, gives valuable suggestion to farmers on how to reduce expenses on farming. At last, Dr. P.S. Gorfad, Asso. Prof., COA, address vote of thanks.

KVK, Nana Kandhasar

Dr. B. C. Bochalya, Scientist, (Ext. Edu.), KVK Nana Kandhasar welcomed the participants in the programme. He elaborated the objectives behind the celebration of Kisan Diwas and discussed the activities undertaken by KVK for the upliftment of farmers in Surendranagar district. He also elaborated the multi-dimensional role of women farmers for maintaining sustainability and prosperity in agriculture. Dr R. P. Kalma, Scientist (Veterinary Science) discussed the various welfare schemes of central and state governments in agriculture and animal husbandry. Women farmers from different village of Surendranagar district participated in the programme. The farmers of the district also presented their views during the farmer scientist interaction and scientists provide on-spot solutions to the problem.



Farmer's Training / Shibir / Training

KVK, Jamnagar & MVRS, Junagadh

KVK, Jamnagar and Main Vegetable Research Station, JAU, Junagadh jointly organized training programme on “Scientific Farming, Value addition and Export opportunity of seed spices crops” on 29th October, 2018 at KVK, JAU, Jamnagar. In this Programme 74 spices crop growers of Jamnagar district were participated. Dr. P. V. Patel, Director of Extension Education, JAU, Junagadh have been guided for the arrangement of the whole programme. The inaugural session was chaired by Dr. A. R. Pathak, Hon'ble Vice chancellor, Junagadh Agricultural University, Junagadh. Dr. V. P. Chovatiya, Director of Research, JAU, Junagadh; Dr. J. H. Vachhani, Research Scientist (Garlic-Onion), JAU, Junagadh; Dr. D. L. Kadvani, Research Scientist (Pearl Millet), JAU, Jamnagar; Dr. K. P. Baraiya, Senior Scientist and Head, KVK, JAU, Jamnagar and other scientist from Vegetable research station as well as KVK remained present and delivered valuable lecture. The discussion focused on IPM-IDM, seed production, economics and market inelegancy, value addition and export opportunities for seed spice crop. The training compendium were prepared and distributed to all farmers.



Hon'ble Vice-chancellor and Director of Research unwrapping the training compendium

Cotton Research Station, JAU, Junagadh

The farmer *Shibir* was organized by Cotton research Station, JAU, Junagadh in collaboration with Rashi Seeds Ltd. on 25-10-2018. In this *Shibir*, our honorable Vice Chancellor, Dr. A. R. Pathak sir, JAU, Junagadh remained present and gave valuable guidance to the farmers. Dr. L. K. Dhaduk, Research Scientist (Cotton), Dr. G. K. Katariya, Res. Sci. (Pl. Physio.) and Prof. M. V. Variya, Assitt. Res.Sci. (Entomology) remained present and Dr. L.K.Dhaduk was gave guidance on cotton minimize cultivation cost to the farmers.



Dr. A. R. Pathak, Hon'ble Vice Chancellor addressing the farmers

Training on Seaweed: Liquid fertilizer, Cultivation and its uses at FRS, Okha

Two days training on seaweed fertilizer preparation (SLF), seaweed cultivation and its uses for income generation of fishermen was organizer during 4th-5th Dec. 2018 for two days at Fisheries Research Station, JAU, Okha. The focus of programme was to support, help and strengthen the women's Shelf Help Group (SHG) for carrying out sustaining income generation activity. In the training, SHG containing 10 women of Ramdevpir Mahaila Mandal, Bagdana participated and benefitted.



Seaweed "Sargassum Sp." drying and storing



Tariner's were trained for seaweed grinding

The training encompassed on class room teaching through PPT and practical training on SLF preparation, cultivation of seaweed using bamboo raft and site visit. In this training program Shri S. R. Thaker (Research Officer) guided the participants through PPT and showing practical. Shri Mukesh P. Patel (Asst. Proff.) has introduced activities of the station and site visit. Shri M. H. Murim (fieldman) along with staff of this center assisted in this training program. This training shall be useful to active participants for creating entrepreneurship and extra income.

Training on Integrated Nutrient Management for Fertilizers Dealers

A 15 Days certificate course on "Integrated Nutrient Management for Fertilizers Dealers" for Saurashtra was started under the guidance of Dr. P. V. Patel, Director Extension Education, Junagadh Agricultural University, Junagadh on 27/12/2018. The training programme was inaugurated by Dr. P. V. Patel, DEE, JAU, Junagadh and Dr. S. G. Savaliya, Dr. G. R. Gohil, Dr. V. J. Savaliya, Dr. P. J. Gohil and Dr. H. C. Chhodavadia were remained present.



Dr. P. V. Patel, DEE addressing fertilizer dealers

Training on “Masala pak ”

A training on “Masala pak ” was organized at Krishi Vigyan Kendra, Khapat on 17th November, 2018. It was organized in association with Dept. of Horticulture, Porbandar. Total 72 farmers and farmwomen participated in this programme. Shri. C. M. Patel, Joint Dir. Horti., Rajkot Division; Shri R.K. Boghara, Shri. M.S. Parsania remained present in this programme. Dr. P. S. Gorfad welcomed the guests and participants. The scientist delivered the lectures on various topics and inspired the participants to grow the spices crop and get the maximum return. Shri R. K. Boghara gave details of various government schemes.

Exposure Visits at Sardar Smruti Kendra (SSK), JAU, Junagadh

Under the guidance of Dr. P. V. Patel, Director of Extension Education, JAU, Junagadh, SSK organized more than 15 exposure visits of the farmers and farm women for awareness regarding present scenario and technology interventions. The visits were aimed to disseminate rapidly the advanced technology to the farmers.

Pride of University

Best KVK Professional Award

Dr. N. B. Jadav had received an award of “Best KVK Professional Award” by the Society of Extension Education, Agra during 9th National Extension Education Congress 2018 held at CAEPHT, Ranipool, Sikkim during 15-17th November, 2018.

Woman Scientist Award

Ms Pinki S. Sharma had received an award of “Woman Scientist Award” by the Society for Upliftment of Rural Economy, Varanasi on the Occasion of International Conference in collaboration with Bihar Agricultural University, Sabour held at Birla Institute of technology, Patna during 30th October - 1st November, 2018.

Prof. V. V. Ranade Young Scientist Award

Dr. H. B. Patel, Assistant Professor, Department of Veterinary Pharmacology and Toxicology, College of Veterinary Science and A.H., JAU, Junagadh has received Prof. V. V. Ranade Young Scientist Award for his research paper in the area of pharmacokinetics and pharmaco genomics; co-authored by Dr. U. D. Patel; C. M. Modi; D. H. Bhadarka.; A. R. Shaul and S. L. Solanki; during 18th annual conference of Indian Society of Veterinary Pharmacology and Toxicology”-2018 and National Symposium on “One health: Veterinary Pharmacology and Toxicology Approaches” organized by AAU, Anand during 05-07 December 2018. He was also recipient of oral presentation award (second position).

Best Young Researcher National Award

Dr. D.N. Borakhatariya, received Prestigious IRDP Award 2018 - “Best Young Researcher National Award” for his outstanding excellence and remarkable achievements in the field of Teaching, Research and Publications from the IRDP Groups of Journals on 28th October, 2018 at Chennai. Award honored was on the basis for outstanding research work on “Effect of seasons on efficacy of estrus synchronization protocols in anoestrus crossbred cows”.

Qualifiers in National Competitive Exams

College of Agriculture, JAU Junagadh

ICAR-JRF (AI Rank)			
No.	Name of Student	Faculty	Rank
1	Patel Krutika	Horticulture	61
2	Chaudhary Hiral	Horticulture	88
3	Lalani Sayroj R.	Agronomy	140
4	Chavda Narendra	Horticulture	147
5	Gojiya Bipin	Horticulture	286
6	Gohil Priyanka	Horticulture	327
7	Parmar Dipati	Horticulture	486
8	Ghoniya Roshani	Horticulture	520
9	Faldu Mansiben R.	Agronomy	541
10	Babreeya Krupalee	Horticulture	671
11	Karamata Jalpaben	Agronomy	675
12	Mathukiya Hemalee	Horticulture	680
13	Mokariya Lakhan K.	Agronomy	705
14	Jani Charmi P.	Agronomy	717
15	Dhamsaniya Dishita	Horticulture	818
16	Neha Naseet	Horticulture	884
17	BaldhaRupin	Horticulture	1135
18	Hirpara Hemanshi	Horticulture	1416

ICAR-SRF (AI Rank)

No.	Name of Student	Faculty	Rank
1	Rohini Ashok V.	Economics	6
2	Patel Tejaskumar M.	Entomology	15
3	Gohil Bhavin C.	Pomology	17
4	Solanki Meera B.	Pomology	18
5	Thummar Vivek M.	Agronomy	18
6	Samadhan Ashok B.	Entomology	23
7	Der Mayurkumar L.	Pomology	36
8	Manisha Sharma	Agronomy	58
9	Abdulmunaf Vaja	Entomology	93

Book Post

To, _____

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