



AAU

NEWSLETTER

Volume : 17
No. : 3
Oct-Dec : 2020

Publication of Anand Agricultural University

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Quarterly Newsletter

Published by

The Directorate of Extension Education
Anand Agricultural University
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Message

Water is a scarce natural resource and the major requirement of water is in agricultural sector. The agriculture sector is the largest consumer of water in India. It accounts for approximately 90 per cent of 7,61,000 billion litres of annual freshwater withdrawals in the country and the consumption of water in agriculture sector ranges from 4,913 to 5,800 kilolitre per capita per year. Since, water being a precious resource for agriculture, every drop



of water available at delivery system and its proper utilization is very important for overall farm efficiency. Hence, there is prudent and paramount need for efficient use of the available water and micro-irrigation is one such innovative technology. Sprinkler irrigation and drip irrigation are the commonly used micro-irrigation methods. Economic return is an important parameter for the adoption of any new technology and at the same time productivity of land and water are also equally important. Hence, more engineering approaches are required to keep water productivity more relevant in economic considerations. India is facing the twin challenge of water scarcity and population explosion which is estimated to increase up to 1.6 billion by 2050. Sensing the significance and probable benefits of the process to double the farmers' income along with agricultural sustainability and environmental quality, the Union Government launched a comprehensive flagship programme called 'Pradhan Mantri Krishi Sinchai Yojana'.

According to the study, the average penetration level of micro-irrigation in the country is 5.5 % which is much less compared to other countries and only few States in India having the penetration level greater than the national average. These States are Haryana (16.3%), Sikkim (10.8%), Andhra Pradesh (10.4%), Rajasthan (9.3%), Karnataka (8.5%), Gujarat (8.1%), Maharashtra (7.3%) and Tamil Nadu (6.4%). As per the report, a steady growth rate of 9.6% is observed in micro-irrigation since 2005 and till recently sprinkler irrigation had shown highest growth rate compared to drip irrigation. In 2012, the area under sprinkler irrigation was Compound Annual Growth Rate (CAGR) 58.6% and the same under drip irrigation was CAGR 41.4%, whereas out of the total area under micro-irrigation in 2015, area under sprinkler irrigation was CAGR 56.4% and under drip irrigation was CAGR 43.6%.

The potential for micro-irrigation is estimated as 69.5 Mha and cereal crop tops in the list with 29.6 Mha. Seven States in the country were identified having potential for micro-irrigation is more than 80% and Gujarat is one of them. However, it will take long time to achieve this potential, if the current target of achieving 0.5 Mha is adopted.

It has been recommended that farmers should move from flood irrigation to drip or sprinkler irrigation systems (micro-irrigation). This will help in conserving water as well as save on the cost of irrigation. Using such micro-irrigation systems has also been linked to an increase in the yield of crops. At present, only about nine million hectares of area in India is under micro irrigation, of which drip irrigation covers about four million hectares of the area, when the actual potential for micro irrigation in the country is about 70 million hectares.

Micro irrigation is known to vastly reduce the amount of water needed for irrigating crops. For example, sprinkler irrigation uses 30 to 40 percent less water, while drip irrigation uses about 40 to 60 percent less water as compared to flood irrigation. There is a 40 to 50 percent gain in productivity due to the use of micro-irrigation. Micro-irrigation also reduces problems of weed, soil erosion and the cost of cultivation in labour-intensive operations. Reduced water consumption due to micro irrigation also helps to lower the use of electricity for lifting of water from irrigation wells. Realising its potential, the government programmes are promoting micro irrigation through their schemes too.

Thus, it can be depicted that, the microirrigation technology is highly relevant and praise worthy to sustainable agriculture as it is found beneficial in respect of increase the yield, improve the water use efficiency, reduction in the cost of water, fertilizers and manures and weed removal. All these added up in the increase in the overall economical benefits due to optimum utilization of water.



(R.V.Vyas)

INTERNATIONAL WEBINAR

Dept. of Dairy Microbiology, SMC College of Dairy Science organized an International Webinar on 'Functional Fermented Foods-Current Status and Future Prospects' in association with its Alumni Association, Gujarat State Biotechnology Mission (GSBTM) and SASNET-Fermented Foods on 15 December 2020. The programme was aimed at knowledge exchange and knowledge dissemination in the area of functional fermented foods for the benefits of all stakeholders. About 680 delegates registered for the webinar. Among them 65% were students, 30% were from academia, 3% were from industry, 2% were consultants. Expert speakers in the webinar included Dr. N. P. Shah, Professor of Food Science, University of Hong Kong; Dr. Suja Senan, Associate Principal Scientist, Nutrition Division of Pepsico, Chicago, Dr. Anand Bhadalkar, Joint Director Business Development, Gujarat State, Biotechnology Mission and Mr. Pravin Singh, Key Account Manager, DSM Food Specialties Ltd., Moderator for the panel discussion was Dr. J. B. Prajapati, Coordinator of SASNET-FF.



Eminent panellists were Dr. J. P. Tamang, Dean, School of Life Sciences, Sikkim University, Sikkim; Dr. Sunita Grover, Former- Principal Scientist and Head, Dairy Microbiology Division, NDRI, Karnal; Dr. Neerja Hajela, Head of Science and Regulatory Affairs, Yakult Danone India Pvt. Ltd.; Dr. Atanu Jana, President, Alumni Association as well as Professor and Head, Dept. of Dairy Processing, SMC College of Dairy Science, and Dr. Prafulla Salunke, R&D and Technical Services Coordinator, Saputo Dairy, USA. At the end Dr. Sreeja V., Assistant Professor & Head, Dept. of Dairy Microbiology as well as Coordinator of the Webinar proposed vote of thanks. Dr. Subrota Hati, Dr. Kunal Gawai and Ms. Mital Kathiriya, Assistant Professors of Dairy Microbiology Department, SMC College of Dairy Science were the co-coordinators of the International Webinar.

WEBINAR

ADVANCES IN MICRO-IRRIGATION AND FERTIGATION FOR IMPROVING WATER USE EFFICIENCY AND CROP PRODUCTIVITY



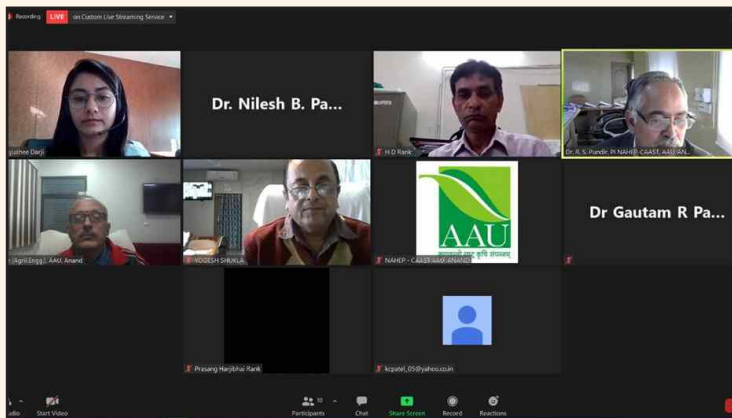
- A one-day online seminar on 'Advances in Micro-Irrigation and Fertigation for Improving Water Use Efficiency and Crop productivity' was jointly organized by College of Agriculture, AAU, Vaso & NAHEP - CAAST, AAU, Anand on 18 December 2020. The seminar comprises one key note lecture and four different lectures delivered by the distinguished personalities based on the theme of the seminar. The inaugural event of the seminar was presided by Dr. R. V. Vyas, Hon. Vice-Chancellor, Anand Agricultural

University, Anand and Dr. R. C. Agrawal, DDG (Education) National Director-NAHEP, ICAR New Delhi.

In the beginning, Dr. R. S. Pundir, Professor & PI, NAHEP-CAST, AAU, Anand briefed about the seminar. Dr. Y. M. Shukla, Principal & Unit Head, College of Agriculture, AAU, Vaso welcome the dignitaries and participants.

In the presidential address, Dr. R. V. Vyas, Hon. Vice-Chancellor, AAU, Anand has emphasized on the judicious use of water in agriculture and allied fields. He insisted the farmers to adopt micro irrigation system and encouraged them to use soluble and liquid bio fertilizers as they are most suitable in micro irrigation system. The inaugural session was ended with the vote of thanks delivered by organizing secretary, Dr. Gautam R. Patel, Associate Professor & Head, College of Agriculture, AAU, Vaso.

In Technical Session I, key note lecture was delivered by Dr. R. Subbaiah, Principal & Dean, CAET, AAU, Godhra. He explained the **'Scope of Micro Irrigation System and Crop Performance Prediction through Micro Irrigation'**. He elaborated the efficient design of irrigation scheduling considering the various affecting factors and field conditions. In the second technical session, Dr. H. D. Rank, Professor & Head, Department of Soil and Water Engineering, CAET, JAU, Junagadh described and elaborated the **'Design of Drip Irrigation System for Irrigation and Fertigation in the Various Field Crops'**.



- ♦ Shri. Prashant Pancholi, Senior Agronomist of Netafim Irrigation (I) Pvt. Ltd., Vadodara, delivered a lecture on **'Decision Support System and Advances in Soil and Plant Water-Based Micro Irrigation Scheduling'** during the third technical session. In his lecture, he illustrated the recent products used in micro irrigation segment with some examples and photographs of success stories of farmers. In the last technical session, Dr. K. C. Patel, Research Scientist, Micro Nutrient Research Unit, AAU, Anand delivered a lecture on **'Concepts and Techniques of Nutrient Management for Enhancing Water and Nutrient Use efficiency'**. In his talk he explained the various factors to enhance the fertilizer use efficiency in different crops.

- ♦ At the end of all technical sessions, Dr. M. L. Gaur, Professor (Soil & Water Conservation Engineering), Department of Agril. Engg., BACA, AAU, Anand chaired the plenary session and expressed his view regarding the importance of micro irrigation. At last, the programme was sum-up with the vote of thanks delivered by Joint Organizing Secretary, Dr. Y. A. Lad, Associate Professor & Core Co-PI, NAHEP-CAAST, AAU, Anand.

PROTECTED CULTIVATION FOR ENHANCING RESOURCE USE EFFICIENCY AND PRODUCTIVITY OF HORTICULTURAL CROPS



- ♦ A one-day online seminar on **'Protected Cultivation for Enhancing Resource Use Efficiency and Productivity of Horticultural Crops'** was jointly organized by College of Agriculture, AAU, Vaso & NAHEP - CAAST, AAU, Anand on 22 December 2020. The seminar comprises one key note lecture and three different lectures delivered by the distinguished personalities based on the theme of the seminar.



Dr. R. S. Pundir, Professor & PI- NAHEP project, AAU, Anand welcomed all dignitaries and illustrated about the functions of NAHEP. Dr. Y. M. Shukla, Principal & Unit Head, College of Agriculture, AAU, Vaso briefed about the protected cultivation in India and welcomed the dignitaries and participants. The inaugural session was ended with vote of thanks delivered by organizing secretary, Dr. Gautam R. Patel, Associate Professor & Head, College of Agriculture, AAU, Vaso

In technical session I, key note lecture was delivered by Dr. Pradeep Kumar, Senior Scientist, Division of Integrated Farming System, ICAR-CAZRI, Jodhpur. He explained the **'Present status and future prospects of the protected cultivation and farming in Indian and Global Context.'** He also focused on recent development in the green house technologies and enlighten the issues with green house and their remedies. He also emphasized to increase the productivity of vegetable and flower crops under greenhouse condition which is far below than other developed countries. He urged to increase the level of assistance to farmers to improve the infrastructure.

In the Second technical session, Dr. Pratapsingh Khapte, Scientist, School of Water Stress Management, ICAR-National Institute of Abiotic Stress Management, Malegaon, Maharashtra delivered lecture on **'Designs and Construction of Different Types of Protected Structures'**. He focused on the considerations and design parameters for the design of various types of green house. He shared some examples and photographs of progressive farmers.

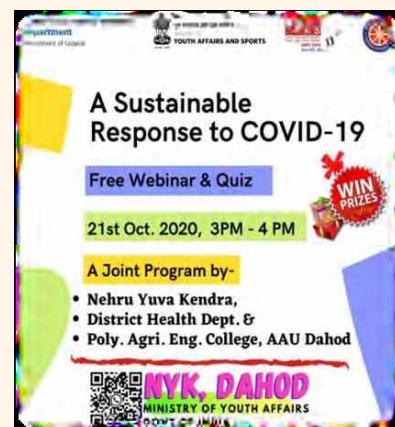
Dr. Nitin Shah, Principal & Dean, College of Horticulture, AAU, Anand described and elaborated the **'High-tech nursery raising techniques for production of quality planting material and soilless cultivation'**. He discussed the various nursery raising techniques with its pro and cons. He explored the mechanism and principles of hydroponics and aeroponic cultivation. Dr Awani Kumar Singh, Principal Scientist, IARI, New Delhi talked on Production technology of high values fruits, vegetable and flower crops.

At the end, Dr. Gautam R. Patel, Organising Secretary, Associate Professor & Head, College of Agriculture, AAU, Vaso presented the overall gist of the all technical sessions. Dr. K. P. Patel, Former Principal & Dean, B. A. College of Agriculture, AAU, Anand chaired the plenary session and expressed his views regarding the need of protected cultivation in precision farming. At last, the one-day online seminar was sum-up with the vote of thanks delivered by Joint Organizing Secretary, Dr. Y. A. Lad, Associate Professor & Core Co- PI, NAHEP-CAAST, AAU, Anand. All sessions were handled by Coordinator, Dr. H. C. Patel, Assistant Professor, College of Agriculture, AAU Vaso and were anchored by Ayushee Darji, SRF, Centre for Agriculture Market Intelligence, AAU, Anand.

SUSTAINABLE RESPONSE TO COVID-19

The Polytechnic in Agricultural Engineering, Anand Agricultural University, Muvaliya Farm, Dahod and *Nehru Yuva Kendra*, Dahod (Ministry of Youth Affairs and Sports, Govt. of India) jointly organized a webinar on **'A Sustainable Response**

To COVID-19' on 21 October 2020 In the beginning, Mr. Ajit Jain, Youth Coordinator, NYK, Dahod welcomed all the dignitaries, faculties, students and NSS volunteers for their participation and briefed about the webinar. The faculty members, students



and NSS Volunteers actively participated in the webinar.

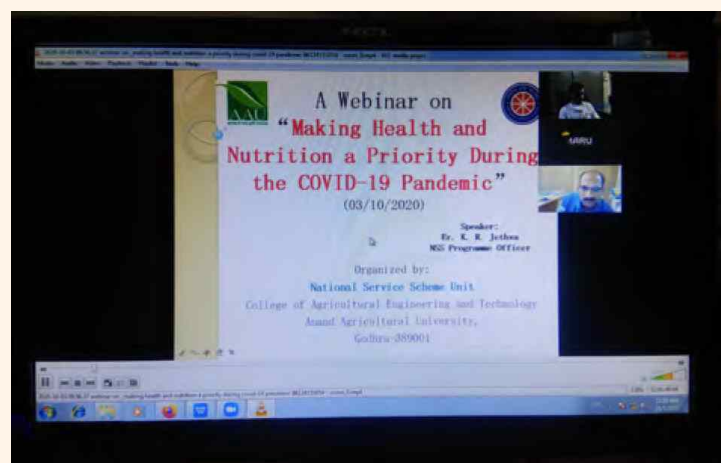
The Chief Guest of the Programme, Dr. D. H. Patel, DSW, AAU, Anand explained different types of crisis and how a crisis often creates stress and emphasis on the eco-systemic crisis of which COVID is an offshoot.

Dr. M. M. Trivedi, Principal, PAE, AAU, Dahod gave the detailed information about COVID-19 and advised the students to follow the guideline of WHO time to time.

Dr. Keval Pandya, UNICEF Consultant, District Health Department, Dahod who was the Resource Person, gave detailed information on COVID-19, its origin, history, structure, symptoms, intensity and mortality ratio through presentation.



MAKING HEALTH AND NUTRITION A PRIORITY DURING THE COVID-19 PANDEMIC



National Service Scheme, College of Agricultural Engineering and Technology, AAU, Godhra organized a Webinar on 'Making Health and Nutrition a Priority During the COVID-19 Pandemic' on 03 October 2020 as a part of celebration of 'Rashtriya Poshan Maah' and 'Fit India Movement-2020'.

In the beginning, Er. K. R. Jethva, NSS Programme Officer welcomed all the faculties, students and NSS volunteers for their participation and briefed about the webinar. The faculty members, students and NSS Volunteers actively participated in this webinar.

There are two lectures delivered by Er. K. R. Jethva, NSS Programme Officer & Asstt. Prof. (PFE Department) on 'Importance of Food Nutrition to Boost Immune System' and 'Importance of Fitness in COVID-19 Pandemic'. At last, he delivered a vote of thanks to all the participants. The webinar

was organized with the support and guidance from Dr. R. Subbaiah, Principal & Dean, College of Agricultural Engineering and Technology, AAU, Godhra.



QUINQUENNIAL REVIEW MEETING OF WESTERN ZONE CENTRES

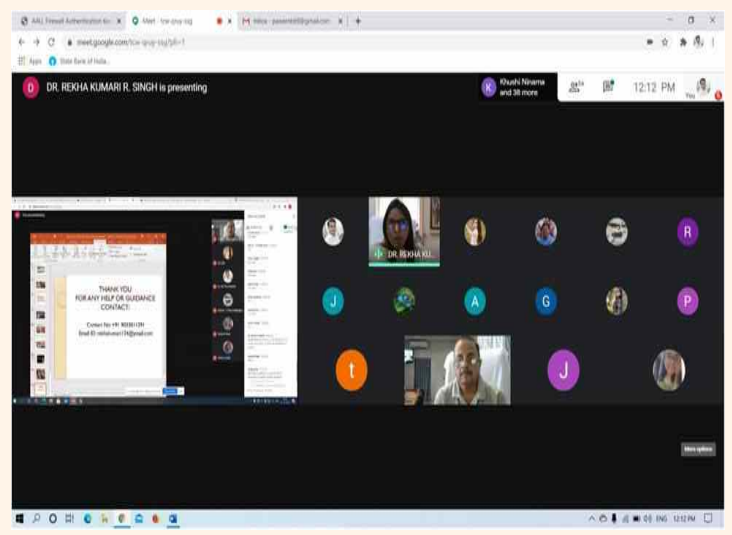
A meeting to review the progress of Seed/ Planting materials' Production Programme under ICAR Seed project for the period 2015-16 to 2019-20 of Western zone centres including Anand Agricultural University, Anand was held online on 15 December 2020.

Dr. S. R. Patil, Chairman of the QRT team along with Dr. Sanjay Kumar, Director, ICAR-Indian Institute of Seed Science, Mau; Dr. Omvati Verma, GBPUAT, Pantnagar; Dr. Uday Bhaskar, ICAR-IISS, Mau and other Scientists from Western zone centres joined the online meeting and the QRT team reviewed the progress.



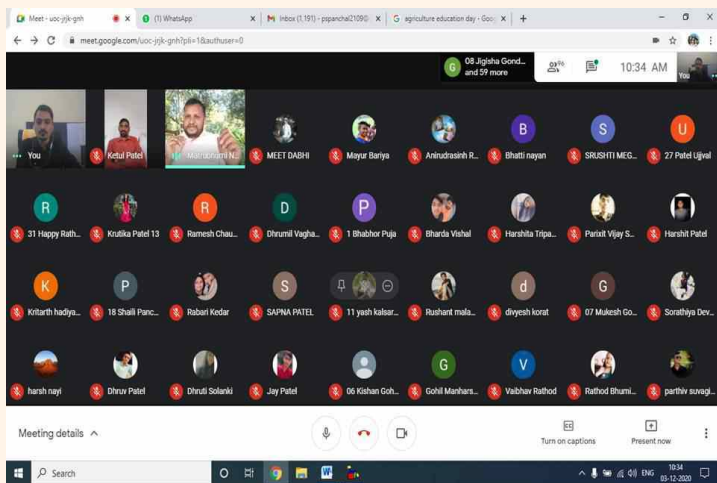
Dr. R. R. Acharya, Nodal Officer (Seed) and Research Scientist presented the progress of Anand Agricultural University, Anand in respect of ICAR Seed Project for the period 2015-16 to 2019-20. Dr. R. G. Parmar, Professor and Head, Department of Plant Pathology, BACA, AAU, Anand also presented the report of AICRP on NSP (Crops) STR. The QRT review committee members satisfied with the progress of Anand Agricultural University, Anand.

EXPERT SESSION ON WOMEN SECURITY AND LAW



College of Agriculture and Polytechnic in Agriculture, AAU, Vaso organised an online expert session on 'Women Security and Law' for the girl students and female staff members on 17 October 2020. The expert session was conducted by Dr. Rekha Kumari Singh, I/c Principal, Anand College of Legal Studies, Anand and the Dean of Faculty of Law, Sardar Patel University, Vallabh Vidyanagar. In opening remarks, Dr. Y. M. Shukla, Principal and Unit Head, welcomed the guest speaker and all the girl participants and conveyed the best wishes on the festival of *Navratri*. He also pointed out the paradox of present times saying that it is indeed a sad situation that the girls-women who are considered the incarnation of Goddess *Shakti* have to be made aware of women security. Dr. Rekha Kumari Singh, during her detailed session, informed the participants about the need of knowing the constitutional provisions and laws concerning women right. Discussing the different conditions where women might feel insecure or wherein the women's security is assaulted, she informed about the different laws that protect women in such conditions. She also informed about the government's different initiatives that ensure the security of women and girls. Dr. Rekha Kumari Singh also replied the questions and queries raised by the participants. The session ended with a vote of thanks by the Chairman of Students' Representative Council.

CELEBRATION OF AGRICULTURAL EDUCATION DAY



- On the birth anniversary of first Union Agriculture Minister and *Bharat Ratna* Dr. Rajendra Parsadji, Sheth M. C. Polytechnic in Agriculture, Anand Agricultural University, Anand celebrated '**Agricultural Education Day**' on 3 December 2020 on the theme of '**Agricultural Entrepreneurship**' through Google Meet Platform. The Programme started with welcome address by Mr. P. S. Panchal, Assistant Professor and SRC Chairman of the Polytechnic. The Guest Speaker, Shri Ajitsinh Gohil, Deputy Project Director, ATMA, Owner of **Matrubhumi Natural Farm**, Bhavnagar delivered lecture on organic farming, certification process, value addition, processing and market development for organically produce agricultural products. He made virtual field trip of his organic farm during the lecture. Mr. Ketul Patel, Managing Director of the '**Best Agri Seeds**', Ahmedabad has delivered informative lecture on **Opportunities in Seed Industries**. Being entrepreneur, he has given detailed information regarding start up and succeed in Agricultural businesses by adopting principles of planning, strategy and management with classic examples. Dr. V. J. Patel, Principal of the Polytechnic gave information about scope for agriculture students in government, semi government, NGOs and in Private Sector. 96 students of the polytechnic joined the online programme. Students got satisfactory answers for their queries from the guest speakers during the programme. Mr. R. I. Chaudhary, Agri. Officer extended vote of thanks. Whole Programme was anchored by Mr. P. S. Panchal.
- College of Agriculture and Polytechnic in Agriculture, AAU, Vaso organised an online session on '**Agricultural Education Day**' Dr. Y. M. Shukla, Principal and Unit Head, discussed the importance of agriculture and agricultural education. He also stressed how the Indian economy is

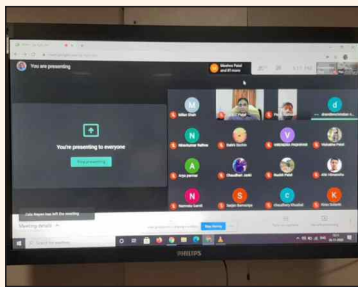


empowered by the export of the agricultural goods and how agriculture helped India to be sustainable. On this day, a guest lecture on '**Gujarat Government's Schemes and Projects for the Benefits of Farmers**' by Dr. Dola Chakraborty, Assistant Director of Agriculture, Agricultural Branch, Kheda District Panchayat, Nadiad was also organised. She gave information about the different governments schemes run by the Gujarat Government for the benefits of the farmers and appealed students and teachers to pass the information to the maximum farmers. About 100 students and teachers joined the programme. The whole session handled by Ms. Pushpa Parmar.

CELEBRATION OF CONSTITUTION DAY



College of Agriculture and Polytechnic in Agriculture, AAU, Vaso organised an online session on '**The Constitution of India**' to bring awareness about the Indian constitution and rights and duties as the Indian citizens. Dr. Y. M. Shukla, Principal and Unit Head, discussed how the Constitution of India came into effect and the importance the constitution in the governance of the country. Elucidating the preamble to the constitution, he explained the meaning of the terms like 'We, the people of India', 'Sovereign', 'Socialist', 'Secular', 'Democratic', and 'Republic' to make the students understand the nature of the Indian constitution. He also discussed the four pillars of our



constitution namely 'Justice', 'Liberty', 'Equality', and 'Fraternity'. He pointed out that in present times citizens are more aware about their rights but have forgotten their duties towards our nation. Hence, he asked the students to devote themselves to the

service of the nation without any selfish motives. A short film on the constitution was also played to make the students aware about the meaning and types of the constitution. Total 100 students and faculty members of Vaso campus participated in the programme. The session ended with a concluding remark by Mr. Sahdev Luhar and a vote of thanks by Ms. Pushpa Parmar.

CELEBRATION OF MAHILA KISAN DIVAS



- ♦ Krishi Vigyan Kendra, Anand Krishi University, Muwaliya Farm, Dahod celebrated *RASHTRIYA MAHILA KRISHI DIVAS* on 15 October 2020, KVK, AAU, Dahod. The programme began with the introductory speech by Senior Scientist and Head, Dr. A. C. Vaidya, on women's contributions and importances in Indian agriculture. Thereafter, in the technical sessions Dr. R. Radha Rani, Scientist (Animal Science) gave lecture on clean milk production followed by a lecture on identifying the diseases and pest and their management by Shri. N. K. Rahod, scientist (Plant Protection). The programme was further continued with the lectures by Dr. H. L. Kacha, Scientist (Horticulture) and Shri. N. D. Makwana, Scientist (Agronomy) on importance of kitchen garden on its benefits. Shri G. K. Bhabhor, Scientist (Ext. Edu.) guided farm women about successful areas and opportunities for women entrepreneurship in agriculture. A total of 30 female farmers participated in this programme.
- ♦ *Mahila Kisan Divas* was organized on 15 October 2020 at village *Raypur*, Ta. Dholka. Dist. Ahmedabad Information was delivered by the scientists of KVK, Arnej on nutrition



through kitchen gardening, animal rearing practices and importance of drudgery reducing tools in Agriculture. Total 32 farm women participated in programme.

DEMONSTRATION ON CHELATED MINERAL MIXTURE POWDER

There were total 956 Demonstration programmes on '*Chelated Mineral Mixture Powder*' organized by Dairy Vigyan Kendra, Vejalpur, SMC College of Dairy Science, AAU, Anand from October 2020 to December 2020 in 78 villages of 11 talukas of the operational area of DVK. DVK benefited 956 dairy farmers of *Panchmahals* district and *Mahisagar* district of Gujarat state. All programmes were successfully organized by Dr. S. J. Jadav, Assistant Professor and Mr. Bhavin Patel, Livestock Inspector, DVK under the guidance of Dr. J. B. Upadhyay (Principal & Dean, S.M.C. College of Dairy Science).



TRAINING ON CULTIVATION OF IRRIGATED PADDY

Training programme on 'Cultivation of Irrigated Paddy' was conducted by MRRS, AAU, Nawagam in collaboration with National Mission for Sustainable Agriculture - Soil health Card Yojana at Nawagam during 29 September to 20 October 2020. Total 270 farmers from 10 different villages of Kheda taluka of Kheda district participated in training programme on 'Cultivation of Irrigated Paddy' All the guidelines and precautionary measures for COVID-19 were followed during the training.

Dr. M. B. Paramar, I/c Research Scientist (Rice) welcomed all trainees and highlighted the importance of Rice Research



Station and its activities. Dr. D. B. Prajapati, Asso. Research Scientist (GPB) delivered a lecture on all latest varieties of irrigated rice and value addition and Shri D. J. Kacha delivered a lecture on production technologies, soil health card and SRI cultivation system on rice. Dr. R. K. Gangwar provided lecture on diseases of rice and their management. Shri S.S.Thorat delivered lecture on pests of rice and their management.

The programme was ended with concluding remarks and expressed thanks by Mr. Jayantibhai Patel, Agriculture Extension Officer, Taluka Panchayat, Kheda.

SNEHMILAN SAMAROH



'Sneh Milan' of Vikram Sonvant 2077, a New Year of Hindu religion was celebrated on 19 November 2020. Due to COVID-19 Pandemic, *Snehmilan Samaroh* was organized on Online Platform through Zoom App. The live streaming of the programme also telecasted on Facebook page of AAU, Anand. Dr. R. V. Vyas, Hon. Vice Chancellor, AAU, Anand, all University officers, Deans of different disciplines, staffs and students joined the programme and extended New Year wishes. This programme was coordinated by Dr. Dinesh H. Patel, Director, Students' Welfare.

DISTINGUISHED VISITORS



- H.E. Ms. Grace Akello- High Commissioner, Uganda along with Ms. Sophie Birungi, First Secretary and Ms. Jane Francisca Emiru, Administrative Attache (New Delhi Embassy) visited Anand Agricultural University on 22 October 2020. This visit was a part of their day-long visit to Amul and other related units including AAU.

The delegation had an interactive meeting with the Hon. Vice Chancellor (I/c) of AAU, Dr. R. V. Vyas and Associate Director of Research, Dr. M. K. Jhala. Dr. R. V. Vyas, VC AAU, Anand highlighted the main activities of AAU in the areas of Agricultural Education, Research and Extension. A few of the noteworthy achievements and contribution of AAU for farmers' welfare were also informed. Activities under Biofertilizer project, Pesticide Residue Laboratory, Plant Tissue Culture, *Vidya Dairy*, Animal Genetics and Biotechnology were discussed in details. Ms. Grace explained the scenario of Uganda in context to need for upgrading their local cattle breeds for more production, improvement in veterinary, dairy education and utilization of unused land for agricultural production and especially shown interest in organic farming. Possible areas of future cooperation were also discussed.

The delegation was impressed by the on-going activities at AAU and expressed desire for collaboration after more such interactions in future for mutual benefit.

- Farmers of Ratlam District, Madhya Pradesh visited Department of Agricultural Microbiology, BACA, AAU, Anand on 17 December 2020 and obtained information about use of biofertilizers for reducing chemical fertilizer input and thereby curtailing cost of cultivation.



- Dr. Shrihari Hasabnis, I/c Biological Nitrogen Fixation Scheme, College of Agriculture, Pune and Dr. Vinay Supe, Associate Director of Research, Regional Fruit Research Station, Ganesh-khend, Pune visited Department of Agricultural Microbiology, BACA, AAU, Anand on 10 December 2020 to get an idea about the establishment of biofertilizer production unit and laboratory for research on agriculturally beneficial microorganisms.



INFORMATION TECHNOLOGY CENTER

The activities of the IT centre of AAU is as under

College/Department	Exam Conducted
♦ College of Horticulture	88
♦ International Agribusiness Management Institute	41
♦ College of Veterinary Science & Animal Husbandry	189
♦ ICAR - Net	152
♦ College of Food Processing Technology & Bio Energy	79
♦ College of Agricultural Information Technology	119

FACULTY NEWS

- ♦ An international online training programme on 'Advances in Diagnosis and Medical Management of Farm Animal Diseases' was organized by Post-Graduate Institute of Veterinary and Animal Sciences, Akola, MAFSU, Maharashtra, India in collaboration with knowledge partner Alembic pharma from 25 November to 1 December 2020. Dr. S. K. Raval, Professor & Head, Dr. G. C. Mandali, Professor, Department of Veterinary Medicine, College of Veterinary Science & Animal Husbandry, AAU, Anand delivered lecture as eminent speaker on 'Red Urine Syndrome in Cattle and Buffalo- Differential : Diagnosis and Therapeutics Management' on 26 November 2020.

The Question Answer session was very well handled by Dr. S. K. Raval and Dr. G. C. Mandali. Technical support during lecture was given by Dr. D. B. Sadhu, Dr. R. J. Bhojani and Dr. K. M. Dave, Deptt. of Veterinary Medicine.

Red Urine Syndrome

Haematuria	Haemoglobinuria
<ul style="list-style-type: none"> Urinary Calculi Nephritis Urolithiasis Cystitis and Urethritis Trauma of Urethra Enzootic Haematuria Bovine Enzootic Pyelonephritis Malignant Catarrhal Fever Anthrax Black Quarter Mycotoxicosis Sweet Clover Disease Snake Bite Shock 	<ul style="list-style-type: none"> Babesiosis Tropical Theileriosis Oriental Theileriosis or Japanese Theileriosis Leptospirosis Bacillary Haemoglobinuria Post Parturient Haemoglobinuria Severe Burns Chronic Copper Poisoning Water Intoxication Disulfide Plant Toxicosis e.g. <i>Allium</i> & <i>Brassica</i> SPP. Drug Induced Isoimmune Haemolytic Anemia

- ♦ Under 'Student READY' programme Dept. of Seed Science & Technology, BACA, AAU, Anand organized a lecture on 'Quality Seed Production' on 08 October 2020 for

the 108 students of 7th Sem. B.Sc. (Agri.) (Hons.) degree. Shri. B. N. Patel, Branch Manager, Gujarat State Seed Corporation, Nadiad was invited for the lecture. He informed the students about various activities carried out by the GSSC for quality seed production like maintain isolation distance, rouging, processing, packaging, marketing and distribution. The students were acquainted with various crops seed production practices which has been carried out by GSSC. He also encouraged student to start their own seed enterprise.

OUR RPIDE



- ♦ The Gujarat Association for Agricultural Sciences (GAAS) awarded 'The Kamdhenu University Award' of the year 2018 to Dr. A. C. Patel, Dr. R. S. Joshi and Dr. D. N. Rank for their contribution in Identification,

Characterization and Registration of three new breeds viz., *Panchali* Sheep, *Kahmi* Goat and *Halari* Donkey of Gujarat. The Award and Cash Price received by Dr. A. C. Patel from Hon. Vice Chancellor, Anand Agricultural University, Anand on 3 October 2020.



- ♦ Livestock Production Management (LPM) e-Quiz Competition was conducted by Veterinary College, P V N R T V U, Telangana on 15 October 2020. More than 750 Undergraduate students of B. V. Sc. & A. H. from all over the country participated in this e-Quiz Competition. About 50 students



from College of Veterinary Science & A.H., Anand Agricultural University, Anand participated in the said quiz competition. Out of top three positions, Mr. Goparam (Final year student) and Mr. Anoop Kumar (Fourth year student)

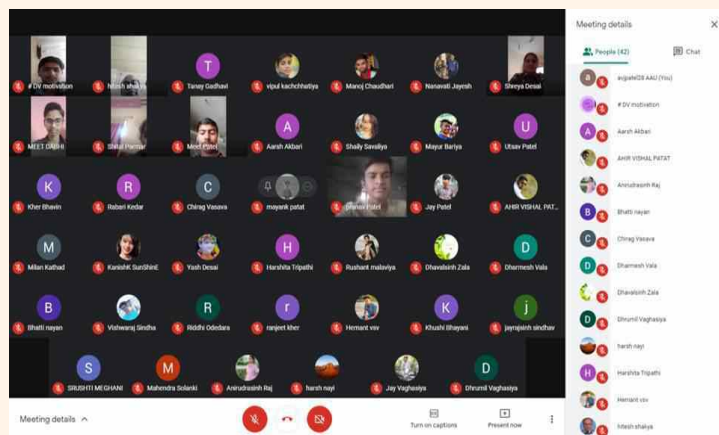
secured First and Third position, respectively. Both the students were awarded with merit certificates along with cash prizes of ₹ 5000 and ₹ 2000, respectively. Professor and Head, Dr. S. V. Shah and Assistant Professors Dr. M. M. Islam, Dr. R. J. Modi and Dr. Y. G. Patel actively involved in motivating students for their participation and preparation for LPM e-Quiz competition.

- Dr. Subrota Hati working as Assistant Professor in Dairy Microbiology Department, SMC College of Dairy Science, Anand Agricultural University, Anand has been selected for the prestigious Associateship of National Academy of Agricultural Sciences (NAAS), India in Agricultural Sciences on the basis of his research works, research publications and awards. This type of Associateship is given only to a few members from Agricultural Sciences upto the age of 40 years. **Dr. Hati is the first person receiving this Honour in Dairy Science among all the State Agricultural Universities in the country.**
- Heena Parmar, Amar Sakure and Subrota Hati won the **Third Prize** in the e-poster competition on '**Production of ACE inhibitory peptides from fermented goat milk**', Organized by Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India on the occasion of 'NATIONAL MILK DAY' on 26 November 2020.
- Shrushti Makwana or J. B. Prajapati, Subrota Hati won the **Third Prize** in the e-poster competition on '**Antiobesity Effect of Fermented Milk on Animal Model**', Organized by Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India on the occasion of 'NATIONAL MILK DAY' on 26 November 2020.
- Heena Parmar, Subrota Hati and Dr. J. B. Prajapati won the **First Prize** in the e-poster competition on '**ACE Inhibitory Peptides from Fermented Goat Milk**', in a national level competition on 'Role of Microorganisms in Promoting Human Health' organized by Microbiologists Society, India-Haryana Chapter on 26 November 2020.
- Deepti Suman, Sreeja V., Nasim Vahora, and Dr. J. B. Prajapati won the **Second Prize** in the e-poster competition on '**Barley (Hordeum vulgare) Enriched Probiotic Fermented Milk: A promising functional food in the pandemic era**', Organized by Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India on the occasion of 'NATIONAL MILK DAY' on 26 November 2020.
- Subrota Hati won **First Prize** in the Young Scientist Category in Oral Presentation on '**Considering the ACE-inhibitory peptides releasing potential of proteolytic**

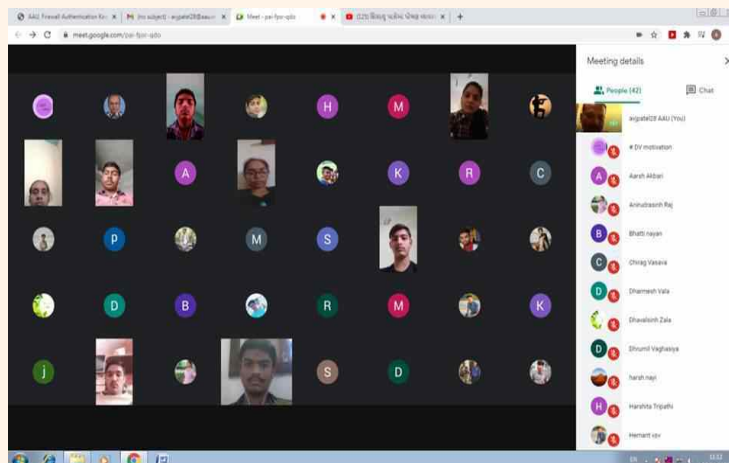
Lactobacilli in Camel milk: a RP-LC/MS based analysis' at National Seminar on Recent Trends in Modern Biology on 10-12 December 2020.

STUDENT CORNER

ONLINE ORIENTATION PROGRAMME



The online 'Orientation Programme' for newly admitted students was organized at Sheth M. C. Polytechnic in Agriculture, AAU, Anand on 9 November, 2020. The programme was started with welcome address by Dr. H. B. Shakya, Academic Incharge and Assistant Professor of the Polytechnic. He also informed the students regarding academic rules and regulations. Newly admitted students and their parents acquainted with hostel rules by Dr. M. V. Dabhi, Rector and Assistant Professor of the polytechnic. Dr. J. I. Nanavati, NSS Programme officer and Assistant Professor overviewed about National Service Scheme (NSS). Mr. P. S. Panchal, SRC Chairman and Assistant Professor



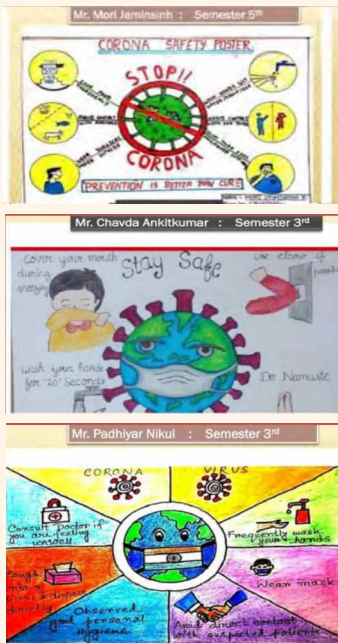
informed about sports and extra-curricular activities carried out by the college. Dr. V. J. Patel, Principal of the college gave presidential address to the students and their parents and congratulated them and also provided information about the syllabus, courses and exams. At the end, Dr. H. B. Shakya extended the vote of thanks.

POSTER COMPETITION



The NSS Unit of College of Agricultural Engineering and Technology, AAU, Godhra organized an online 'Poster Competition-

2020' on the occasion of 'Gandhi Jayanti-2020'. Various themes like **Importance of Nutritional Food for Immunity Booster**, **Contribution of Corona Warriors in COVID-19**, **Swachhta hi Seva** and **Fit India Movement** were given to students. Many students send their posters via E-mail. A judging committee comprise of following members like Er. Kapil Mandloi, Dr. Hardik Sharma, Mrs. Shefali Modi and Er. K. R. Jethva was formulated by Principal & Dean, CAET, Godhra to Judge the posters. The judging committee selected posters themewise and students awarded with certificates. The competition was successfully organized by Er. K. R. Jethva, NSS Programme Officer under the guidance and support from Principal & Dean, Dr. R. Subbaiah.

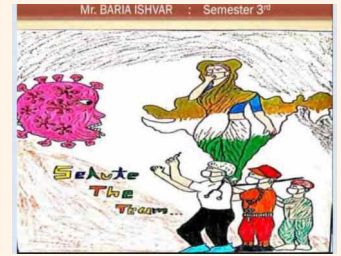


The NSS Unit of Polytechnic in Agricultural Engineering, Anand Agricultural University, Muvaliya Farm, Dahod organized online poster competition-2020 on 21 October 2020. Total 33 students of PAE, AAU, Dahod (3rd and 5th semester) participated in the event. A judging committee comprise of following members like Er. Farid G. Sayyad, Dr. B. K. Yaduvanshi, Er. M. S. Khardiwar and Prof. Sachin S.Chinchorkar

was formulated to Judge the posters.

- ♦ Good deliberation happened during poster competition, which had increased the level of awareness about COVID-19 on the topics of...

1. COVID-19 outbreak
2. COVID-19: Staying Safe (Prevention Measures/ Awareness Poster).
3. The Corona Virus Warriors.
4. COVID-19: Diagnosis and Treatment.
5. Corona virus: The Ultimate Creation
6. Post Corona virus: The Future
7. Public Responsibilities in the Fight Against COVID-19
8. Biology & Pathophysiology of COVID-19 in humans.
9. National Healthcare Policy for Handling Pandemic like COVID-19.



The judging committee selected 10 best posters as per different theme.

AAU IN MEDIA

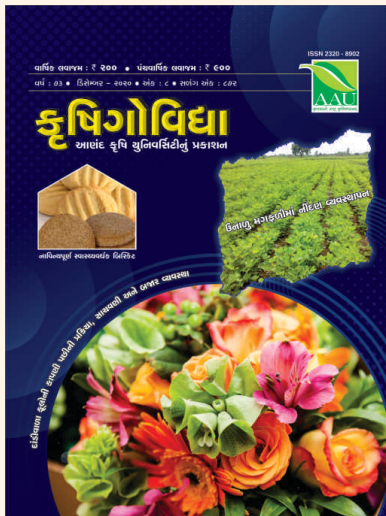




RETIREMENTS

October 2020
1 Dr. Jashbhai Parshottamdas Prajapati, Professor, Dairy Science College, Anand
2 Dr. Jashbhai Bhikhabhai Prajapati, Principal & Dean, Dairy Science College, Anand
3 Dr. Devendra Shekhar Nourial, Research Scientist, College of Veterinary Science & AH, Anand
4 Shri Kanubhai Galabhai Solanki, Office Supdt, EEI, Anand
5 Shri Rajeshkumar Narshinbhai Parekh, Head Clerk, KVK, Arnej
6 Shri Hashmukhbhai Madhavlal Patel, Head Clerk, FPT&BE, Anand
7 Shri Vipinchandra Ramabhai Rathava, Agril Supervisor, ARS, Dhandhuka
8 Shri Goswami Chaitanygiri Vallabhgiri, Peon, Directorate of Research, Anand
9 Shri Bhavshingbhai Mathurbhai Dabhi, Kayami Rojanddar, College of Veterinary Science & AH, Anand
November 2020
10 Dr. Vijay Pandurang Belsare, Professor, College of Veterinary Science & AH, Anand
11 Shri Ramaji Laxman Chotaliya, Assistant Research Scientist, ARS Dabhoi
12 Shri Ranvirsinh Sardarsinh Rana, Agril Assistant, ARS, Jabugam
13 Smt. Kailashben K. Patel, Sr.Clerk, Main Rice Research Station, Nawagam
14 Shri Urvish J Upadhyay, Computer Prog., BACA, Anand
15 Shri Jayantibhai P.Parmar, Driver, ARS, Arnej
16 Shri Yusufmiya H. Shaikh, Peon, Spices Res. Station, Sanand
17 Kusumben Manubhai Gohel, Peon, BACA, Anand (Death)
December 2020
18 Dr. P. R. Vaishnav, Professor & Head, BACA, Anand
19 Dr. Dipak Manubhai Patel, Professor, College of Veterinary Science & AH., Anand
20 Shri Suryakant H. Patel, Mechanic cum Wireman, Dairy Science College, Anand

PUBLICATION OF FARM MAGAZINE



The Publication Unit, DoEE, AAU, Anand publishes the monthly farm magazine 'Krushigovidya' regularly for the benefit of the farming community since May 1948. There are 12,000 subscribers registered for this multicolored farm magazine upto December 2020.

We generate fears while we sit, We overcome them by action
- Dr. Henery Link

Book-Post

To

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