



## From the Desk of Vice-Chancellor



**Prof. D.C. Joshi**  
Vice Chancellor

Agriculture University, Kota has been established in year 2013. The University is progressing with a niche with its policies, programmes and pedagogical innovations for quality agricultural teaching, research and extension. In its sincere endeavour, with in very short period it has significantly achieved a land mark in terms of infrastructure, human resource development, promoting advanced learning and research, building the capabilities to reckoning, imparting employment skills and serving local as well as national interests in the field of Agriculture, Horticulture, Forestry, Animal Husbandry and Post Harvest Technology. It is a matter of great pride that in year 2018-19, we were recognized by ICAR, GOI as a good performing State Agriculture University with 23<sup>rd</sup> rank at National level and 1<sup>st</sup> in Rajasthan.

The strenuous efforts are being made to develop short duration and multiple biotic and abiotic stress resistant varieties of major crops by the University and recently important varieties viz; Kota Urd-3, Kota Urd-4, Kota Deshi Chana-1, Kota Kabuli Chana-1, Kota Matar-1 and Kota Barani Alsi-5 have been released by the University. The University is also engaged in transfer of technology to the farmers through professional extension services of 6 KVK's viz; Kota, Bundi, Jhalawar, Anta, Hindaun and Sawai Madhopur. Concerning agricultural education, University is also committed to attain mission excellence by providing quality education at the College of Horticulture and Forestry, Jhalawar which is a first of its kind in the State which offer under-graduate and post-graduate education in Horticulture and Forestry. The second constituent college of the University i.e. College of Agriculture, Kota newly established in year 2018, is also showing very glowing performance. The colleges are offering B.Sc(Hon's), M.Sc. and Ph.D. programmes.

The Newsletter highlights the activities, progress and achievements of the Agriculture University, Kota during the period from January to June, 2020. This duration had been quite exciting for us because we have organized several important meetings such as Board of Management, Academic Council, Finance Committee, Research Council, Extension Education Council, Zonal Research and Extension Advisory Committee, Research Sub-Group, Quinquennial Review Team and Scientific Advisory Committees etc. along with other events such as Workshops, National Talk show, Exhibitions, Webinars and Field Days etc. Besides, during this part of year 2020, the University also celebrated several important festivals and days i.e. Biodiversity Festival, National Voters Day, Republic Day, International Yoga Day, International Woman's Day along with various student activities like Swacchta Pakhwara, Self Defense Training for Girls, Educational Tour, e-Quiz Competition, NSS, Industrial Training of Students etc.

The period was equally painful as the University has to confront COVID-19 pandemic which has destroyed all the normal activities. Although, during the thorny circumstances the University has completed harvesting of all the Rabi crop experimentations, implemented all programmes of Kharif season and completed all the extension and academic programmes with the help of latest e-learning tools. I appreciate the dedicated members of team AUK for their steady and patient efforts in the challenging circumstances of COVID-19.

I am confident of the consistent support of the Government as well as my colleagues and staff for the prudent expansion in terms of available resources to meet the needs of a vibrant University soon. Essentially, a large University can come into being by planning and implementing, brick by brick, the multidimensional innovative and creative ideas.

I hope the content of the Newsletter will be very much informative. I congratulate the whole editorial team for their tireless efforts in compiling this newsletter.

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## Board of Management (BOM) Meeting

The 14<sup>th</sup> meeting of Board of Management (BOM) of Agriculture University Kota was held on 26.06.2020 in the chairmanship of Prof. D.C. Joshi Hon'ble Vice Chancellor, Agriculture University Kota. Prof. D.C. Joshi welcomed BOM members and informed about the activities of the university during lockdown period related to online teaching research and extension. Following points were discussed with the honorable BOM members during the meeting.

- Preparation of Joint Entrance Test (JET) 2020 as well as pre P.G. examinations.
- Release of four new varieties of pulses by the university, which has been acknowledged at all India level.
- The activities conducted under National Agriculture Higher Education Project funded by World Bank.
- Expert panel for the interview in the University which is to be finalized in Academic Council according to the guidelines of Rajasthan University Teachers & Officers (Selection for Appointment) Act, 1974.
- Formation of committee/ cell for increase in income of the university and blocked grant from Central and State Government.
- Financial benefit to retired employees according to guideline of State Government.



## Academic Council Meeting

The 14<sup>th</sup> meeting of Academic Council of Agriculture University, Kota was held on February 06, 2020 under the Chairmanship of Dr. D.C. Joshi, Honorable Vice-Chancellor, AU, Kota. The following important decisions were taken for academic improvement of the colleges and University.

- As per Government order ten percent reservation for economically weaker sections students was approved by increasing ten percent intake capacity.
- Department of Social science started at the College of Horticulture and Forestry, Jhalawar as per recommendation of the Fifth Dean's Committee.
- The name of Floriculture and Landscaping department was changed to Floriculture and Landscaping Architecture as per 5<sup>th</sup> Deans Committee recommendations.
- Initiation of Ph.D. programme in the Department of Horticulture at CoA, Kota from the session 2020-21 was approved.



## Finance Committee Meeting

As per the revised budget estimates of 2019-20, University have received Rs. 2762.51 lakhs from the State Government, out of which expenditure of Rs. 2197.90 lakhs has been made. The total budget received and expenditure made during 2019-20 was Rs. 5245.99 lakhs and 4199.18 lakhs, respectively. The Comptroller has placed the budget estimates of Rs. 6069.80 lakhs. for the year 2020-21. State Government agreed to provide total budget of Rs. 3160.51 lakhs out of which Rs. 1340.00 lakhs under other than scheme head (Non Plan). The budget demanded from ICAR for 75% share of AICRPs, 100% share of KVKs and other ICAR Projects is Rs. 2027.05 lakhs. As per the interest received from fixed deposit in banks and Govt. treasury, the proposed rate of



interest on Employees Provident Fund (EPF) of employees for year 2019-20 is proposed @ 7%. Increasing loan amount for class IV employees from Welfare Fund. As per the proposals approved at 3<sup>rd</sup> Finance Committee date 16/05/2017 and its subsequent approval at Board of Management meeting dated 20/05/2017. The loan amount is proposed to increase upto Rs. 4 lakhs or salary of 30 months (Basic pay + DA) whichever is less however the rate of interest continues to be 11% per annum. Resolved to approve increase in the amount of welfare loan to class IV<sup>th</sup> employees from Rs. 3 Lakhs to 4 lakhs.

### Senior Officers Council Meeting

The Fifth meeting of Senior Officers Council (SOC) of Agriculture University, Kota was held on 3<sup>rd</sup> June 2020. Prof. D.C. Joshi, Hon'ble Vice Chancellor and Chairman of SOC Agriculture University, Kota expressed his humble thanks to all the Deans, Directors, Registrar, Comptroller, Estate Officer, KVKs, Farm Incharges along with all the staff for doing their duties very sincerely under the highly adverse situation of COVID-19 pandemic and lockdown. Registrar, Agriculture University Kota Smt. Mamta Tiwari, informed that the seniority list of teaching and non-teaching staff has prepared & promotion of non-teaching staff through DPC was completed. Comptroller, AU, Kota acquainted that as per instructions of the Government all the payments were being cashless. Dean, College of Agriculture, Kota briefed uniform fee structure for all degree programme in all the SAUs of Rajasthan. Director Human Resource Development notified the common score card for recruitment as well as promotion of teaching staff for all the Agricultural Universities of Rajasthan. The other important issues discussed during the meeting:

- Facility of State Insurance to the employees of University, recruitment, promotion and CAS of the staff at the earliest, creating new posts for all the Directorates and other Units, quarterly reconciliation of expenditures from all Units, annual physical verification and disposal of unused/ unserviceable items, reconciliation of the production and sale of all seeds/ grains regularly every season be done & recorded.
- Innovative use of land and manpower for production of seed, seedlings, bio fertilizer, trichoderma, honey etc.
- MAF, Ummedganj to be revamped and appropriate measure be taken for increasing the income.
- All the arable land should be cultivated for all season,



registering the university as Educational and Research Organization under CSIR for tax benefits in procurement of capital goods and MoUs to be signed for collaborative research, exchange of biological material and skill development programmes, etc. All the live Units of KVKs should be modernized,

- Paid trainings on entrepreneurship be organized & maximum vocational programmes needs to be conducted.
- Museum should be developed at each Unit, FPOs be formed in all districts by KVKs, agriculture education museum be created on priority basis and sale counter at all KVKs be established.
- All the Colleges needs to complete e-content for all courses and update on website. The unique ID of all the students should be prepared.
- Scholarships/ Fellowships/ RAWE/ NTS be paid through DBT only and ELP & Student Ready Programme should be planned as well as implemented as per ICAR's recommendations.
- Whole University should work on ICT based system. State University Management System applicable to all SAUs need to be adopted, website revamping - updating system should be in practice and video conferencing system need to be updated. Information Communication Technology (ICT) based training should be organized for all the staff members of the University.
- All measures to be taken by each unit of the university to increase the income as per potentiality. Seed grading and storage be improved for high quality. Regular information collection system from all the units should be developed to get information of activities conducted every month.

## Research Council Meeting

The Third meeting of Research Council of Agriculture University, Kota was held on 15<sup>th</sup> January, 2020 at Agricultural Research Station, Kota under the chairmanship of Dr. D.C. Joshi, Hon'ble Vice-Chancellor, AU, Kota. Two eminent experts, Dr. A. R. Pathak, former Vice-Chancellor, NAU, Navsari & JAU, Junagarh, Gujarat and Prof. Z.S. Solanki, founder Vice-Chancellor, AU, Kota were also invited. During this meeting following agenda items and issues were discussed viz., ATR on the recommendations /suggestions of the 2<sup>nd</sup> Research Council meeting, review of research work of the year 2018-19 and future plan, formation of subject wise sub committees, seed policy of AU, Kota, brand name & trade mark for seed and other products of AU, Kota, proposal of link officers for the outside research stations, and efforts for enhancing productivity of all the university farms, etc.

During the meeting HVC, AU, Kota emphasized on the need based and location specific research and development programmes. All the Directors, Deans, ZDR, Unit Heads and Senior Professors of Agriculture University, Kota attended the meeting.



## Extension Education Council Meeting

The 3<sup>rd</sup> Extension Education Council meeting was organized under the chairmanship of Prof. D.C. Joshi, the Vice-Chancellor, Agriculture University, Kota at Directorate of Extension Education, on 27.01.2020. Dr. G.S. Tiwari, Ex-Director, Directorate of Extension Education, MPUAT, Udaipur and Dr. I.N. Gupta former Director, Directorate of Extension Education, A.U., Kota were present as special guests. The Deans, Directors, Associate Director, Joint Director (Agriculture), Joint Director (Horticulture), Heads of the Department, Senior Scientist and Head of all 6 KVKs, Officers from line departments and progressive farmers were also present in the meeting. Director Extension Education, Dr. K.M. Gautam presented the annual progress report of the year 2019 and action plan of year 2020.



## Zonal Research and Extension Advisory Committee Meeting (ZREAC)

The Zonal Research and Extension Advisory Committee (ZREAC) meeting for *Kharif*, 2020 was held at ARS, Kota on 20-21 May, 2020 under the chairmanship of Dr. Pratap Singh, Director Research, AU, Kota. Dr. Ramavtar Sharma, Joint Director, Agriculture Department, GOR and Dr. N.L. Meena, ZDR, ARS, Kota were also present in the meeting to discuss the results of *Kharif* 2019 and finalization of the new research programme for coming season *Kharif* 2020. Prof. D.C. Joshi Hon'ble Vice Chancellor Agriculture University, Kota addressed the meeting online. He suggested that discussion on real time problems of farmers should be talked and suggest to give recommendation for crop improvement along with production and protection technologies useful for farmers. HVC also suggested to follow proper safety measures during covid-19 pandemic and to best for the farmers of





the zone. During the meeting presentations were made by different Research project incharges and KVKs Scientist of Agriculture University, Kota and State Government Officials of the Zone. During the meeting different recommendation were emerged on mungbean, soybean and water management. Total seven experiments were approved for testing at ATCs/KVKs/ARSS.

## Research Sub Group-I (Crop Improvement) Meeting

With the objective to improve the research and development activities of agriculture university, Kota as per the resolution approved in 3<sup>rd</sup> Research Council Meeting the Research Sub Committees (RSCs) were constituted. These committees were framed for subject wise evaluation of the research work of Agriculture University, Kota. On this way the first meeting of the Research Sub Group-I i.e. “Crop Improvement” was held on 19.05.2020 in the conference hall of AU, Kota, under the chairmanship of Professor D.C. Joshi, HVC, AU, Kota. All the scientists of disciplines genetics and plant breeding, biotechnology, microbiology, seed technology, plant physiology and biochemistry of Agriculture University, Kota were attended the meeting as member and presented brief overview of their respective projects. In the programme HVC, Professor D.C. Joshi interacted with all the scientists of crop improvement group of AU, Kota present in the meeting physically as well as online. He also showed much expectations from young and intelligent scientists of AU, Kota particularly from crop improvement group as Universities are recognized for latest and popular varieties. With the objective of sharing of knowledge, experience and guidance for future research programmes of two stalwart plant breeder's viz., Dr. K.D. Kathiriya, former Director Research, Anand Agriculture University, Gujarat and Dr. S.R. Maloo, former Director Research, MPUAT, Udaipur, Rajasthan were also invited for online expert talk. Dr. K.D. Kathiriya suggested to house about collection of special local germplasm on priority basis as rich source of genetic variability. He strongly suggested dissemination of technology among farmers by adopting cooperative system in tune of Gujarat and Maharashtra. The eminent plant breeder Dr. S.R. Maloo depicted a view of varieties development by AU, Kota in different crops like Mullarp, Linseed, Sugarcane, Potato and Coriander. He advised to young scientists of University for shifting of research at

molecular level for getting essential significant genetic gain. Dr. Pratap Singh, Director Research and Dr. J.M. Dhakar, Director Education and ADR, Seed & Farm also interacted with the all young scientists during their presentation on different projects.

## Quinquennial Review Team (QRT)

Quinquennial Review Team (QRT) constituted by ICAR, New Delhi under the chairmanship of Dr. S. L. Mehta, Ex-DDG (Edu.) ICAR and Ex- Hon'ble Vice Chancellor, MPUAT Udaipur visited Krishi Vigyan Kendra Kota & Bundi on 10-01-2020. This team has taken review of all activities conducted for the period of 2011-12 to 2018-19 by KVK, Bundi and Kota and Senior Scientist & Head of KVKs presented their progress report. The team also visited different units of KVK and interacted with innovative farmers from KVK Bundi and Kota jurisdiction. The team appreciated the work of Krishi Vigyan Kendra, Bundi and Kota.



## Scientific Advisory Committee Meeting

Scientific Advisory Committee Meetings of Krishi Vigyan Kendras of Agriculture University, Kota were held on 6, 7, 13 and 16 January, 2020 at Bundi, Anta (Baran), Jhalawar and Kota, respectively. The Scientific Advisory Committee meeting of KVK Bundi, Anta and Kota were organized under the chairmanship of Prof. D.C. Joshi, HVC A.U., Kota while SAC meeting of KVK, Jhalawar was conducted under the chairmanship of Dr. K.M. Gautam, Director Extension Education, A.U., Kota. Senior Scientist and Heads of respective KVKs presented

the annual progress report of the year 2019 and action plan for the year 2020.



## Monthly Review Meeting of KVKs

Directorate of Extension Education, AU, Kota organized its monthly review meeting at Kirshi Vigyan Kendra, Bundi on 25.02.2020. Dr. M. C. Goyal, Professor and Associate Director (Ext.) chaired the meeting. All KVKs of Agriculture University, Kota presented their monthly progress report and action plan of ensuing month



## Activities during lockdown due to COVID-19

To perform the activities during pandemic COVID-19 lockdown, three core team were constituted as (1.) Academics (2.) Research, Farms and Extension (3.) Administrative & financial.

The summary of activities core team wise is as :-

### 1. Academics

- Online teaching by using different modes as Whatsapp group, e-lecture, Google & Zoom, video clips, PPT, PDF Study material, email, Youtube, Mobile calls for small groups of M.Sc./Ph.D. Students.
- Uploading PDF of all study materials on college website.
- Results of first Semester of academic Session 2019-20 of all UG & PG classes declared during the month of April 2020
- Courses Completed during lockdown 45-50 %
- Conducted mock test subject wise
- Research work of PG Students continuously guided for timely submission of thesis.
- Conducted Oral Comprehensive examinations of all eligible PG Students through online modes.
- Pre & post thesis seminar through online
- Registration on Academic Management System of AU, Kota

### 2. (A) Research & Farms

- Monitoring of seed production programme.
- Seed production programme:

- Timely harvesting, Threshing & storage works
- A total of 11854 quintal seed produced during Rabi 2019-20.
  - (5625 quintal Breeder seed)
  - (1158 quintal foundation seed)
  - (490 quintal certified seed)
  - (4581 quintal TFL seed)
- Zaid moong & urd sowing at ARS, MAF, ARSS, Aklera, Khanpur & KVK, Kota
- Irrigation through Sprinkler.
- Agro Advisory Services by ARS Kota.
- Weather forecasting advisory provided to farming community through printed media & Social media.
- Data collection & analysis of research experiments.
- Summer ploughing of farms, land levelling & land development work
- Advisory work to labour for precautions of Covid 19 during work at farms.

### 2. (B) Extension Education

- Farm & Food Processing advisory provided on regular basis.
- Weather advisories given to farming community by KVKs-Karauli, Anta, & KVK Kota.
- Awareness among farming community about Covid-19 & Aarogya Setu app.
- Immunity booster prepared to fight against Covid-19 by Food Processing Unit.
- About 15000 Papaya Plants provided to farmers of the university area.
- Proper sanitization of all the units.
- Promotion for preparation of Masks through SHGs & Selling for enhancing Income of the groups.
- Regular advisory about precautions from Covid-19.
- Dissemination of agricultural technology through Akashwani, print & other Social media.
- Agro advisories through participation in Webinar organised by KVKs.
- Sh. Narendra Singh Tomar Hon'ble Union Minister of Agriculture & farmers welfare, GOI appreciated the activities done by the KVKs during review meeting of ICAR regarding works done during lockdown due to covid- 19.
- Different farm operations harvesting, threshing & storage work.
- Field preparation & farm ploughing.
- Reporting work to ICAR ATARI.
- Management of live units at KVKs.
- Rabi FLD results & reports prepared.

### 3. Administrative & Financial

- Timely Administrative orders, Circulars, advisories regarding Covid-19
- Financial sanction & bills processing work
- CM relief fund for Covid-19: 1-5 days salary given by all staff of the university
- Screening of CAS applications
- Preparation work of Reservation roaster



## Organization of workshops

### i. Medicinal and Underutilized Plant Species



On completion of 25 years of establishment of Krishi Vigyan Kendra, Anta (Baran) a National workshop on Medicinal and Underutilized Plant Species for Health and Nutritional Security was organized during 3 - 4 March, 2020 under the chairmanship of Dr. K.M. Gautam, Director Extension Education AU Kota. Shri R.K. Jain, AGM (HR), NTPC, Anta was the Chief Guest of the workshop. Dr. Pratap Singh, Director Research, Agriculture University, Kota, Shri Rajeev Daima, DDM, NABARD, Kota, Dr. Sunil Kumar, Principal Scientist, IGFRI, Jhansi, and Dr. I.N. Gupta, Ex-Director, DEE, AU, Kota were the special guests of the workshop. In the workshop 352 delegates participated and presented their technical, oral and poster paper.

### ii. Communication Skills

Directorate of Extension Education, AU, Kota organised workshop on “Communication Skills for Effective Extension Services” in collaboration with Extension Education Institute, Anand (Gujarat) at KVK Jhalawar during 5 – 7 March, 2020. Dr. I.B. Maurya, Dean, CH&F, Jhalawar inaugurated the workshop. Total 33 participants including Assistant Professors, Subject Matter Specialists, Technical Assistants working in the university and other extension personnel from state department of agriculture were participated Dr. K. M. Gautam, Director Extension Education chaired the valedictory session of workshop and conferred certificates to the participants.

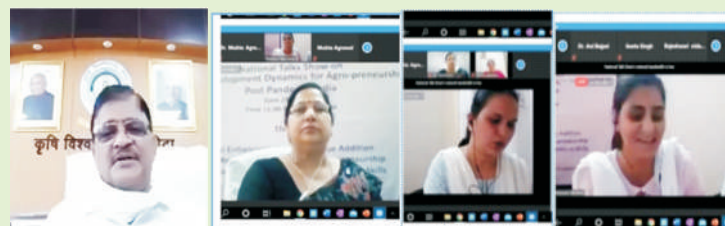


### iii. Soft Skills for Entrepreneurship

One day workshop sponsored by ICAR-NAARM Hyderabad under NAHEP on “Development of Soft Skills for Entrepreneurship among Agri graduates” was organised on 12<sup>th</sup> February 2020 at the College of Horticulture and Forestry, Jhalawar. The workshop was inaugurated by Dr I. B. Maurya Dean, CHF Jhalawar, Dr. Jitendra Singh, Director Students Welfare, Agriculture University Kota, Dr. M. C. Goyal, Professor (Ext. Edu.) Directorate of Extension Education, Agriculture University Kota and workshop director Dr. Navale Manasi R, Asstt. Professor (SAF).

### Organization of National Talk Show

A National talk show on “Skill Development Dynamics for Agri-preneurship in Post Pandemic India” was organized by Directorate of Prioritization, Monitoring & Evaluation, Agriculture University, Kota on 29<sup>th</sup> June, 2020. The objectives of the talk show was to understand the scope of agri-preneurship through skill development dynamics for youth, to make the youth, aware about various avenues of agri-preneurship and to motivate them for entrepreneurship in innovative and hi-tech agriculture and allied sectors. It is important to note that despite the lockdown and the supply-chain disrupted nationwide, the government and the entrepreneurs are working overtime to ensure easy availability of essentials. Even in such a crisis, agriculture took centre-stage. If the youth are made aware and acquainted with different types of skills related to agro based business, then post pandemic India will be in brighter shape.



### National Seminar on “Smart Horticulture”

Two days National seminar on “Smart Horticulture” was organized by College of Horticulture and Forestry, Jhalawar, during 30-31 January 2020 under NAHEP-IG grant. The programme was inaugurated by Padma Shree Dr. Bharna Singh, Ex-Director, DRDO, New Delhi, Dr. K.K. Singh Ex-DDG- Horticulture ICAR, New Delhi, Dr. G.L. Keshwa, Ex-HVC, Agriculture University Kota, Dr. D.C. Joshi, HVC Agriculture University Kota, and Dr.



Gopal Lal, Director NRCSS, Tabiji Ajmer. Nearly 250 scientists, faculties and scholars of various universities and institutes of the country were participated in the national seminar and discussed on present scenario of horticulture in the country and implementation of smart horticultural practices to enhance horticulture produces. Discussion was made among the scientists about effect of climate change, nutrition and irrigation management during climate change, protected cultivation and horticulture management practices during various sessions.

## Webinars Organised

College of Horticulture and Forestry, Jhalawar organized National Webinars on Avenues in Horticulture in post COVID scenario, SCM and Value addition of Perishable Horticultural Crops during COVID-19 and Forest Conservation and Tree Improvement in India on dated 08, 17, 23, 27 June 2020 respectively.

College of Agriculture, Umedganj, Kota also organized National Webinar on Role of Organic Farming in Quality Production During Post Covid-19 Era on 10th June 2020. Directorate Student Welfare organized a National Webinar on Food and Immunity in fight against COVID-19 on 17<sup>th</sup> June 2020. The Hon'ble Vice-Chancellor, AU, Kota Prof. D.C. Joshi was chief guest of the inaugural session of webinar. Dr. Renu Mogra, Professor, Food and Nutrition, MPUAT, Udaipur, Dr. M.S. Swarnakar, Govt. SRG Medical College and Hospital, Jhalawar and Dr. Deepa Hansraj Dwivedi, Professor, Horticulture were the resource persons.

**NATIONAL WEBINAR ON FOOD AND IMMUNITY IN FIGHT AGAINST COVID-19**

Organizing Committee:

<b>President</b> Dr. D. C. Joshi Vice-Chancellor, AU, Kota	<b>Chief Guest</b> Dr. Renu Mogra Prof. Dr. Renu Mogra MPUAT, Udaipur
<b>Chairman</b> Dr. D. C. Joshi Vice-Chancellor, AU, Kota	<b>Organizing Secretary</b> Dr. Anand Kumar Prof. Dr. Anand Kumar AU, Kota

**Participants**

Dr. Anand Kumar	Dr. Anand Kumar	Dr. Anand Kumar
Dr. Anand Kumar	Dr. Anand Kumar	Dr. Anand Kumar
Dr. Anand Kumar	Dr. Anand Kumar	Dr. Anand Kumar

2020M Meeting ID: 5487569923  
Date: 17<sup>th</sup> June, 2020 Time: 10:00 AM to 1:00 PM  
Institute of Student Welfare, AU, Kota in collaboration with N.A.H.F.P., College of Horticulture and Forestry, Jhalawar

## Training Programmes Organized

### i. Nursery Kamgar

A training programme on Nursery Kamgar was organised by Department of Silviculture and Agro-forestry during 26 Feb. to 21 March 2020. Total 20 farmers were attended the training and learned about theory and practical aspect of nursery management. During the training participants attended various lectures, delivered by subject experts of Horticulture, Soil Science, Fruit Science, Plant pathology, Water Management and Forestry. Along with theory classes they were also took active participation in practical to enhance their skills. Participants have also been exposed to various nurseries of College during training.



### ii. Bee-Keeping

Department of Plant Protection, College of Horticulture and Forestry, Jhalawar organized a training programme on "Bee-Keeping" sponsored by Indian Council of Agriculture Research, New Delhi during 11-17<sup>th</sup> Feb., 2020. Total 30 SC category farmers from various regions of Rajasthan were participated in the training.



### iii. Mushroom Cultivation

Department of Plant Protection, College of Horticulture and Forestry, Jhalawar organized a training programme on "Mushroom Cultivation" sponsored by Indian Council of Agriculture Research, New Delhi from 27 February to 04 March, 2020. Total 30 Schedule Cast farmers from



different regions of Rajasthan were participated in the training. During the training course convener and other subject experts delivered the lectures on Mushroom production, nutrition aspect and economic importance of Mushroom and also conducted practical session to better understanding of the techniques.



#### iv. Nursery Management

Two days training programme for farmers on Nursery Management was organized during 12-13 March, 2020 by Department of Fruit Science, CH&F, Jhalawar sponsored by ICAR. Total 30 Farmers were participated in the programme and learned about seed sowing, nursery development, nutrition management and pest management, various budding techniques for nursery plant production. Programme was coordinated by Dr Jitendra Singh, Head, Department of Fruit Science, CH&F, Jhalawar.



#### Bio Diversity Festival Celebration

Krishi Vigyan Kendra, Jhalawar celebrated Bio Diversity Festival during 12-13 February 2020 to increase understanding and awareness of biodiversity issues among masses. Biodiversity Festival organised to celebrate and dialogue on biodiversity, indigenous communities' knowledge, culture, food and farming systems by bringing together diverse stakeholders.



#### Celebration of International Women's Day at KVKs

International Women's Day was celebrated at KVK, Jhalawar on 8.3.2020. Dr. A. K. Verma, Senior Scientist and Head inaugurated the programme and emphasized on importance of

women in various fields, especially in Agriculture, Women Empowerment and Gender Equality. He motivated the



participants to develop as Women Entrepreneurs and Progressive Women farmers and guided them to self-sustain with confidence. International Women's Day was celebrated at all other KVKs also.

#### Exhibitions Organized

Krishi Vigyan Kendra, Bundi organized exhibition on integrated farming on Republic Day, 26 January, 2020 at Khel Sankul Bundi at District level programme and awarded. Krishi Vigyan Kendra, Kota placed their products in different exhibition organized at Digital India Programme, Ministry of Labour, Kota, Jila Udhog Kendra, Kota and NIFTEM, New Delhi on 16-19 February 2020, 17-18 February 2020 and 19-21 February 2020 respectively.





## Field Days Organized

Two field days on DRMR IJ-31 (Giriraj) improved variety of Mustard in Panwasa and Aktasa villages of Jhalawar district on February 18 and 20, 2020, respectively. One field day on GNG-1958 on improved variety of Chickpea at Aktasa village on 17/03/2020.



## Krishi Panchang – 2020 Released

Krishi Panchang-2020, prepared by Directorate of Extension Education, was released during the third Extension Education Council meeting held on 27.01.2020.



## Republic Day Celebration

71<sup>st</sup> Republic Day was celebrated at each centre of Agriculture University, Kota including Head Quarter at Kota.



## International Yoga Day

International yoga day was celebrated by all the staff members and students of the University on 21 June, 2020 at their respective home. On this occasion staff and students practiced various pranayama and asana along with family members.



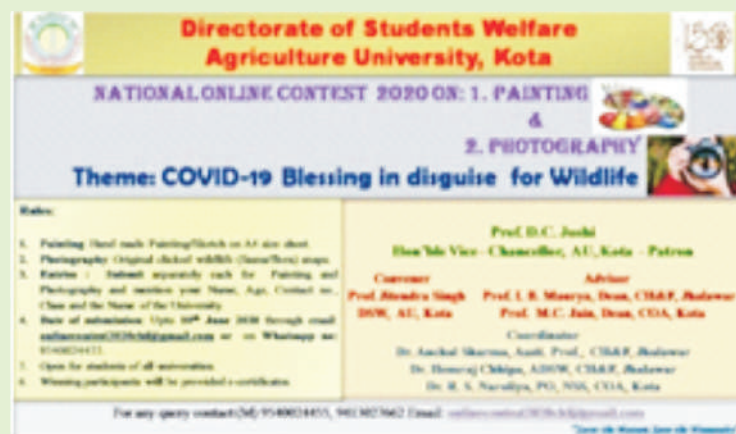
## Organization of Online Competition on Covid-19

### i. State Level Essay Competition

Directorate of Student Welfare organized a state level online essay completion on Covid-19 and lockdown in pollution reduction on 5<sup>th</sup> June, 2020. The competition was organized to create awareness among masses regarding Covid-19 pandemic. Sh. Ajay Meena, Agriculture College, Bikaner secured first position, Ms. Varsha Shekhawat, College of Horticulture and Forestry, Jhalawar secured second position and Mr. Ravi Nagar, Sangam University, Bhilwara secured third position.

### ii. Photography and Painting Competition

National online Photography and Painting competition on "COVID-19 was organized on Blessing in disguise for Wildlife" on 10<sup>th</sup> June, 2020. In all there were 110 entries in photography from different states of the country. In the photography competition, Mr. Rohan Kumar Solanki, secured first position, Sh. Ahir Hiren Bhadarka secured second position and Ms Meenakshi Singh secured third position. In painting competition 390 entries were received. In this competition Hema Shahi secured first position, Prachi R. Shinde second position and G.I Nikshipta secured third position.



**Directorate of Students Welfare  
Agriculture University, Kota**

**NATIONAL ONLINE CONTEST 2020 ON: 1. PAINTING & 2. PHOTOGRAPHY**

**Theme: COVID-19 Blessing in disguise for Wildlife**

**Patron:** Prof. D.C. Joshi  
**Chairman:** Hon'ble Vice-Chancellor, AU, Kota - Patron

**Coordinator:** Prof. M.C. Jain, Dean, CDA, Kota

**Advisor:** Prof. L. K. Maurya, Dean, CHAF, Bikaner  
Prof. M.C. Jain, Dean, CDA, Kota

**Coordinator:** Dr. Anshul Sharma, Asst. Prof., CHAF, Bikaner  
Dr. Hemraj Chhaga, Asst. Prof., CHAF, Bikaner  
Dr. R. S. Naruliya, P.O., NDA, CDA, Kota

For any query contact: (91) 949034470, 941627962 Email: [onlinecontest@auk.ac.in](mailto:onlinecontest@auk.ac.in)



## Awards/Honours

• Kurel Kisan Producers Company Limited, an FPO promoted by Krishi Vigyan Kendra, Bundi conferred with Best FPO award by Hon'ble Chief Minister of Rajasthan Sh. Ashok Gehlot on 22 January, 2020 in a state level event organised by NABARD at Jaipur.



• Dr. Arjun Kumar Verma, Senior Scientist and Head, Krishi Vigyan Kendra, Jhalawar was conferred with the Dhanuka Innovative Agriculture Award (Save Water and Rain Water Harvesting Award) on 09/01/2020 by Dhanuka Agritech Ltd, New Delhi.



• Dr. Harish Verma, Professor and Head, Krishi Vigyan Kendra, Bundi awarded with Reviewer Excellence Award by ARCC, Karnal.

• Dr. Baldev Ram, Assoc. Professor (Agronomy), Agriculture University, Kota awarded with Best Teacher Award 2019-20 for the outstanding contribution in teaching, research and extension activities of the University by Hon'ble Vice chancellor, Agriculture University, Kota.



## New Initiatives for Quality Improvement in Education

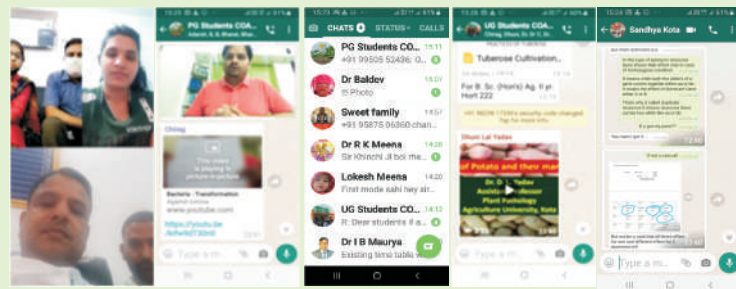
New Programmes Started at College of Agriculture:

In research: 06 M.Sc. students of different departments at this college have been submitted their thesis of respective research programme. In extension two day's "Farmer's training" on Improved technologies for seed spices was organised on 13 & 14th Feb., 2020.

Tutorial lecture series was organized by the College of Horticulture and Forestry, Jhalawar for UG and PG (Horticulture and Forestry) students under ICAR-schedule cast sub plan during January-February 2020. Experts from IARI, New Delhi, NAU Navsari, College of Forestry Ranichauri, CAZRI Jodhpur, RLBAU, Jhansi and RCA Udaipur delivered lectures during the series.

College of Horticulture and Forestry, Jhalawar also organized online classes and practical, Online field experimentation, Oral Examination, online comprehensive exam, online pre-thesis submission, material sharing, mock test through different online mode like Zoom, Cisco webex, Google meet, Google Class room, and whatsapp were taken by faculty members during lockdown period.

Similarly the College of Agriculture, Kota also conducted various educational activities during lock-down period, including teaching by creating class wise WhatsApp groups, conducting e-lectures and online classes through Zoom, Webex/cisco, Google app, video clips and other related apps, video and mobile call conferencing for small group of M.Sc./Ph.D. students, audio-video power point presentation, through e-mails, uploading PDF of all study materials on college website, solutions of specific problems though personal call, uploading videos on youtube etc.



## Student Activities

### i. National Voter's Day Celebration

Tenth National Voter's Day was celebrated in the College of Horticulture and Forestry by staff members and students on 25<sup>th</sup> January 2020. On this day students shared their knowledge on voter registration and polling process with participants. Dr. Jitendra Singh, DSW, Agriculture University Kota and Dr. Hemraj Chhipa, ADSW delivered the lecture on role of election in national democracy and importance of election in the country. Other faculty members also addressed the students and appeal them to take active participant in each type of elections and disseminate with surrounding village youth. The voter's day oath was taken by all participants during the programme.





## ii. NSS Special Camp

A special camp was organised for NSS volunteer during 15-21<sup>st</sup> February 2020 by the NSS unit of the College. The camp was inaugurated by Dr Jitendra Singh, DSW, Agriculture University Kota on 15/02/2020. During the camp various lectures

were delivered by faculty members on Fundamental Duties and Rights of Indian Citizens, Indian Constitution, Gandhian way of life and leadership qualities, and fixing Goals and working strategies.



During the camp students participated in many activities like communication skills improvement, Poster Making, Shramadaan in campus and surrounding village, essay, speech and debate competition and mock parliament. Similarly, seven days NSS Camp was also organized by the College of Agriculture, Kota, during 25-31<sup>st</sup> January, 2020 in adopted village Dhakarkheri under the leadership of Programme Officer Dr. C.B. Meena. In which 69 students participated. During the concluding session Hon'ble Vice-Chancellor Prof. D.C. Joshi and Ex. Hon'ble Vice Chancellor Prof. G.L. Keshwa also addressed to the student volunteers.



## iii. Swacchta Pakhwara

Swacchta Pakhwara was organized during 16-31 January, 2020 at College of Agriculture, Kota, in which 130 students participated.



## iv. Self Defence Training for Girls

Self Defence Training for women was organized on 17<sup>th</sup> February, 2020 at Girls Hostel College of Agriculture, Kota, in which 50 Girl students and 15 lady teaching and non-teaching staff participated.

The College of Agriculture, Kota celebrated, National Girls Day on 24<sup>th</sup> January, 2020, A rally consisting of NSS volunteers was organized in which message of Beti Bachao Beti Padhao was given.



## v. Special Yoga Camp

Special Yoga Camp was organized during 2-6 March, 2020 at College of Agriculture, Kota, in which about 100 students and staff members participated.



## vi. Educational Tour

A 10 days educational tour for the final year students of the College of Horticulture and Forestry, was conducted during 18-27 February, 2020. During the education tour

students visited College of Agriculture Jodhpur, CAZRI, Machia Biological Park, SKRAU, IABM, BIKAJI Industry Bikaner, CIPHET, PAU Ludhiana, Rock and Rose garden, Chandigarh, HAU Hisar, BITS, Pilani and





SKNAU Jobner. Further, students were also exposed to theory and practical aspects of Agriculture, Horticulture and Forestry during the education tour programme.

## vii. E-quiz Competition

A quiz competition on COVID-19 pandemic was organized by NCC Unit, College of Horticulture and Forestry, Jhalawar on 18<sup>th</sup> June 2020 to create general awareness among the students.

## viii. Special Activities of NSS during Lockdown

Various activities were conducted by the NSS Unit, College of Horticulture and Forestry, Jhalawar in the lockdown period such as Online and telephonic interaction with students, staff and other family members to maintain social distance and aware about COVID-19; Awareness activities on Self immunity boost up exercises, and motivated NSS volunteers and students to practice Yoga-Pranayama and Meditation to boost up immunity; motivating students to prepare and distribute masks to their neighbours and needy people; organizing awareness activity on safety, sanity and social distancing to combat against corona self-awareness, social distancing and awareness to students and family members on COVID-19.

## ix. Industrial Training of Students

B.Sc (Hons). Horticulture IV students from College of Horticulture and Forestry, Jhalawar were placed for 21 days Industrial Training Programme from April 24 to May 16, 2020 through online mode in various horticulture based industries viz., Indian Overseas Agriculture Planet, Bikaner, Dhanwantri Nursery, Jhalawar, Saroniya Santra Kisan producer Company Ltd., Swami Vivekanand Jaivik Agriculture Anushandhan Kendra, Manpura, Jhalawar and Punjab National Bank Farmer Training Centre, Jhalrapatan. Then final presentation of the students was conducted and evaluated by the committee members through online mode.

## New Resources/Infrastructure Developed

In the College of Horticulture and Forestry, Jhalawar Park Benches in Girl's hostel, Boys hostel and Sport Complex have been developed.

In the College of Agriculture, Kota, Construction of Garage, NEDEP Super, Vermi-Compost, 500 m boundary wall and AZOLLA Unit, Construction of Girl hostel of worth Rs. 90 Lakhs approximate, Parking, Girls hostel is under construction, Central and other Labs were strengthened by placing following new equipments

Maker, Hot Air Oven, Hot water Bath, Autoclave, Socks let Hot Air Oven Apparatus, Hot Air Oven, Flame Photo meter, pH. Meter, EC Meter, Trade mill and other sports items were purchased for extracurricular activities of the students. Preparation of football ground with fixing of goal posts. Approximate 500 new books purchased for library to facilitate the students. Furniture of Rs. 2.50 Lakhs purchased for strengthening of library. Boundary wall completed around the centre.



## Visit of Distinguished Persons

Following distinguished Guests visited College of Horticulture and Forestry, Jhalawar.

- Padma Shree Dr. Bharna Singh, Ex-Director, DRDO, New Delhi.
- Dr. K.K. Singh, Ex-DDG- Horticulture, ICAR, New Delhi.
- Dr. G.L. Keshwa, Ex-HVC, Agriculture University Kota.
- Dr. Gopal Lal, Director, NRCSS, Tabiji, Ajmer.
- Dr Vishal Nath, Director ICAR-NRC on Litchi, Rohua, Bihar.
- Dr. S. K. Sharma, Ex Dean, CH&F, Jhalawar.
- Dr Ulrich Berk, Germany.
- Dr. Anita Babbar, Principal Scientist (PBG), Dr. A. Wasniker, Pr. Scientist (Plant Pathology), 03.03.2020, Monitoring of chickpea trials under AICRP on Chickpea.
- Prof. R.A. Pathak, Former Vice-Chancellor, NAU, Navsari & JAU, Junagarh, Gujarat, Former V.C.of AU, Kota Prof. Z.S. Solanki and Hon'ble V.C. AU, Kota, 15.01.2020, Visit of AICRP trial of Potato.



- Dr. D.C.Joshi, HVC, AU, Kota, 15.03.2020, Monitoring of AICRP on Potato Trial.
- Dr. K.P. Patel, Dean, BACA & Dr. P.G. Shah, Prof. AAU, Anand, Gujarat, 15.01.2020, AICRP on Potato trial visit.
- Dr. R.B.Singh, Ex. Prof., Plant Patho., AICRP on Potato, 18.02.2020, AICRP on potato trial visit.
- Joint Director, AD, AO of Kota Zone, 30.12.2019, AICRP on potato trial visit.



### Participation in national seminar / conference / workshop

- Dr. Arjun Kumar Verma, Senior Scientist and Head, Krishi Vigyan Kendra, Jhalawar participated in National Seminar on SMART Horticulture held at College of Horticulture & Forestry, Jhalawar from 30 - 31 January, 2020.
- Dr. Mohmmad Yunus, SMS (Extn. Edu.), Krishi Vigyan Kendra, Jhalawar participated in National Seminar on SMART Horticulture held at College of Horticulture & Forestry, Jhalawar from 30 - 31 January, 2020.
- Mr. Arvind Nagar, SMS (Horticulture) Krishi Vigyan Kendra, Jhalawar participated in Winter School on Non-Conventional Approaches for Genetic Improvement of Perennial Horticulture Crops organized by Division of Fruits & Horticultural Technology, ICAR-IARI, Pusa, New Delhi during 17 January 2020 to 06 February, 2020.
- Dr. Arjun Kumar Verma, Senior Scientist and Head Krishi Vigyan Kendra, Jhalawar, participated in International Conference on Pulses as the Climate Smart Crops: Challenge and Opportunities held at Bhopal from 10 to 12 February, 2020.
- Nupur Sharma, SMS (Agronomy), Krishi Vigyan Kendra, Sawai Madhopur, attended training on Conservation agriculture-based crop management practices in climate smart agriculture held at MPKV, Rahuri during 18 - 22 May, 2020.
- Nupur Sharma, SMS (Agronomy), Krishi Vigyan Kendra, Sawai Madhopur, attended training on climate resilient technologies for rainfed agriculture held at VNMKV, Parbhani from 11 to 15 June, 2020.
- Dr. Mamta Tiwari, DPM&E, Agriculture University, Kota attended national conference on Advances in Food Science Processing & Safety 13-14, March 2020 at IIS Jaipur.
- Dr. Jitendra Singh, Dr. A. Mishra, Dr. P.S. Chahuhan, Dr. S.B.S. Pandey, Dr. Prerak Bhatnagar, Dr. Kavita A, Dr. Ashok Kumar, Dr. Priyanka Solanki, Dr. Rajesh Sharma, Dr. Anil Gupta, Dr. Anchal Sharma, Sh. Nirmal Kumar Meena, Dr. Hemraj Chhipa, Dr. Bhuri Singh, Dr. Bhuvnesh Nagar and Dr. Hanuman Singh from College of Horticulture & forestry Jhalawar participated in National Seminar on SMART Horticulture held at College of Horticulture & Forestry, Jhalawar from 30 - 31 January, 2020.
- Dr. Hemraj Chhipa participated in 21 days CAFT training on Advanced Bioinformatics Techniques mapping and GWAS using NGS data during 06 to 26th Feb. 2020 at ICAR-IASRI, New Delhi.
- Dr. B.L Nagar and Dr. D. L. Yadav participated in Global Potato conclave 2020 from 28.01. 2020 to 31.01. 2020 at Mahtma Mandir, Gandhinagar, Gujarat.
- Dr. Sandhya participated in 2 days workshop on Sensitization workshop on NAHEP component 2A: Activities & implementation of academic management system and project management system from 25.02.2020 to 26.02.2020 at ATMQIC hall at AU, Kota.
- Dr. D. L. Yadav participated in One day Regional Workshop on Career Development Centre (CDC) from 12.02.2020 at SKNAU, Jobner.
- Dr. Baldev Ram participated in International Conference Pulses as the Climate Smart Crops : Challenges and Opportunities (ICPulse2020) from 10.02. 2020 to 12 .02. 2020 at ISPRD, Kanpur; ICAR-IIPR, Kanpur & ICAR, New Delhi.
- Dr. Manoj Kumar, Dr. B.S.Meena and Dr. D.S. Meena participated in NAHEP Component- 2 Activities and Implementation of Academic Management System and Project Management System” from 25.02.2020 to 26.02.2020 at AU, Kota ( Rajasthan).
- Dr. Chaman Kumari Jadon, Dr. N. R. Koli participated in Zonal Breeders Meet of NW, NC, NE & EC Zones,
- Dr. S.C. Sharma, Sh. S. N. Meena, Dr. Preeti Verma & Dr. Rajesh Kumar participated in International Conference Pulses the Climate Smart Crops: Challenges and Opportunities from 10.02.2020 to 12.02.2020 at Bhopal (M.P.).



- Dr. S.C. Sharma participated in Brain Storming Session on Phytotron Facility from 06.02, 2020 at RCA, Udaipur.

## Research Projects

### All India Coordinated Research Projects (ICAR)

S.No.	Name of Project	Name of Centre	Status
<b>ICAR Regular Centre</b>			
1	AICRP on Rice	ARS, Ummedganj, Kota	Ongoing
2	AICRP on Soybean	ARS, Ummedganj, Kota	Ongoing
3	AICRP on Pigeonpea	ARS, Ummedganj, Kota	Ongoing
4	AICRP on MULLaRP	ARS, Ummedganj, Kota	Ongoing
5	AICRP on Rapeseed & Mustard	ARS, Ummedganj, Kota	Ongoing
6	AICRP on Chickpea	ARS, Ummedganj, Kota	Ongoing
7	AICRP on Linseed	ARS, Ummedganj, Kota	Ongoing
8	AICRP on Sugarcane	ARS, Ummedganj, Kota	Ongoing
9	AICRP on Irrigation Water Management	ARS, Ummedganj, Kota	Ongoing
10	AICRP on Potato	ARS, Ummedganj, Kota	Ongoing
11	AICRP on Integrated Farming System	ARS, Ummedganj, Kota	Ongoing
12	AICRP on BSP&NSP	MAF, Ummedganj, Kota	Ongoing
13	AICRP on Arid fruit zone	CH&F, Jhalawar	Ongoing
14	AICRP on Honeybee and Pollinators	ARS, Ummedganj, Kota	Ongoing
<b>ICAR Voluntary Centre</b>			
1	AICRP on Wheat and Barley	ARS, Ummedganj, Kota	Ongoing
2	AICRP on Spices	ARS, Ummedganj, Kota	Ongoing
3	AICRP on Maize	ARS, Ummedganj, Kota	Ongoing
4	AICRP on Onion and Garlic	CH&F, Jhalawar	Ongoing
5	AICRP on Dryland Agriculture	ARSS, Aklera, Jhalawar	Ongoing
6	Agromet Advisory Services	ARS, Ummedganj, Kota	Ongoing
7	National Networks on Arid Legume	ARS, Ummedganj, Kota	Ongoing

## Adhoc Projects

S.No.	Name of Project	Name of Centre	Status
1	Enhancing breeder seed production of pulses-NFSM, ICAR	ARS, Ummedganj, Kota	Ongoing
2	Centrally Sponsored Scheme under Mission of Integrated Development of Horticulture (MIDH)	MAF, Ummedganj, Kota	Ongoing
3	Strengthening of seed infrastructure facilities at soybean breeder seed production centres (Sub mission on seed & planting material-SMSP)	MAF, Kota	Ongoing
4	Pulse Hub -3	KVK's (Kota, Bundi, Jhalawar)	Ongoing
5	Oilseed hub (Soybean & Mustard) -2	MAF, Kota & KVK, Kota	Ongoing
6	Adhoc projects (Pvt.) -49 (2017 -18 to 2019-20)	ARS & ARSS,	Ongoing

## Rashtriya Krishi Vikash Yojana (RKVY)

S.No.	Name of Project	Name of Centre	Status
1.	Strengthening of infrastructure to enhance the quality seed production of soybean at research farms of AU, Kota.	AU, Kota	Ongoing
2.	Enhancing Breeder Seed Production Farm Modernization	MAF, Kota	Ongoing
3.	Establishment of "Agriculture Technology and Management Quality Improvement Centre (ATMQIC) at Directorate of Extension Education, Agriculture University, Kota.	DEE AU, Kota	Ongoing
4.	Strengthening of infrastructure at KVKs and Agriculture University, Kota for enhancing the quality seed production	AU & KVKs'	Ongoing
5.	Development of Integrated Farming System modal for enhancing livelihood security of small and marginal farmers in South-Eastern Rajasthan	ARS, Ummedganj, Kota	Ongoing
6.	Coriander improvement for yield, quality and export for financial security to farmers of Hadoti region.	ARS, Ummedganj, Kota	Ongoing
7.	Standardization of crop geometry for enhancing quality tonnage and yield of annual and perennial drumstick in Kota district	KVK, Kota	Ongoing
8.	Establishment of sirohi goat demonstration unit for raising income and skill development of rural youth of South-Eastern Rajasthan	KVK, Kota	Ongoing
9.	Development of improved Agro-techniques for enhancing productivity and profitability of Quinoa ( <i>Chenopodium quinoa</i> ) and Chia ( <i>Salvia hispanica</i> ) in South-Eastern Rajasthan	ARS, Ummedganj, Kota	Ongoing
10.	Evaluation of Organic Production System for Improving Soil health vis-a-vis Crop Productivity and Quality in the hadoti region of Rajasthan	ARS, Ummedganj, Kota	Ongoing
11.	Establishment of bio-pesticide unit for rapid mass production of bio agent ( <i>Trichoderma viride</i> )	ARS, Ummedganj, Kota	Ongoing

## Seed Production Programme

S.No.	Crop	Seed Category				Total
		BS	FS	CS	TL	
1	Wheat	4018.90	120.50	221.30	3651.54	8012.24
2	Gram	1369.93	508.50	60.50	22.40	1961.33
3	Mustard	11.49	529.20	191.90	449.50	1182.09
4	Pea	88.30	-	-	-	88.30
5	Lentil	128.70	-	-	-	128.70
6	Linseed	7.28	-	-	-	7.28
7	Coriander	-	-	-	185.81	185.81
8	Fenugreek	-	-	-	72.03	72.03
9	Barley	-	-	10.00	78.10	88.10
10	Oat	-	-	-	6.20	6.20
11	Garlic	-	-	-	108.00	108.00
12	Nigela	-	-	-	2.50	2.50
13	Chiya	-	-	-	0.50	0.50
14	Quinoa	-	-	-	1.00	1.00
15	Taramira	-	-	6.00	-	6.00
16	Onion	-	-	-	4.00	4.00
<b>Total</b>		<b>5624.60</b>	<b>1158.20</b>	<b>489.70</b>	<b>4581.58</b>	<b>11854.08</b>



## Publication Research paper

- N Kaushik, CE Díaz, H. Chhipa, LF Julio, MF Andrés (2020) Chemical composition of an aphid antifeedant extract from an endophytic fungus, *Trichoderma* sp. EFI67, A González-Coloma *Microorganisms* 8 (3), 420 (NAAS 10.1)
- Hemraj Chhipa and Nutan Kaushik (2020) Combined effect of biological and physical stress on artificial production of agarwood oleoresin in *Aquilaria malaccensis*, bioRxiv microbiology.
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- Neelam Yadav, Basu Devi Yadav, Rajendra Kumar Yadav, Sharvan Singh Yadav, Karishma Yadav, Malu Ram Yadav, Vinod Kumar Yadav, Anil Kumar Verma, Roshan Kumawat, Anju Bijarnia and Chiranjeev Kumawat 2020. Dynamics of Boron in Soils and Plants 2020 *Chemical Science and News Letter* 9(34), DOI: 10.37273/chesci.cs20510138.
- Sharma, Minita, Chauhan, P.S., Pandey, S.B.S., Bhatnagar, P, Sharma, M.K. and Nagar, Bhuvnesh (2020). Seed germination behaviour and seedling attributes of *Buchanania lanzan* (Spreng.) in South-Eastern Rajasthan 2020 *The Pharma Innovation Journal*; 9(1): 123-128.

## Book Chapter

- Mawar, Ritu; Ram, Ladhu; Deepesh and Mathur, Tanu. (2020). 'Ganoderma' in edited book entitled "Beneficial microbes in agro-ecology, Bacteria and Fungi" Elsevier Science, Academic Press.
- Rahul Chopra (2020) Biochar: An Organic Soil Booster in Agriculture & Food, e-Newsletter, Volume 2 Issue 5, 213-215.

## Joining/Retirement

- Sh. S.K. Gupta, RA, ARS, Kota Superannuated on 30 April, 2020.

Patron

**Prof. D.C. Joshi**

Hon'ble Vice Chancellor

Technical Advisor

**Prof. L.K. Dashora**

ICAR - Emeritus Professor

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To, \_\_\_\_\_

Book-Post

