

# RAJUVAS NEWSLETTER

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। पशुधनं नित्यं सर्वलोकोपकारकम् ।

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**Rajasthan University of Veterinary  
& Animal Sciences, Bikaner**

Website: [www.rajivas.org](http://www.rajivas.org)



## From Vice-Chancellor's Desk




Dear Readers,

We all are aware about situation of lockdown due to COVID-19 and at the same time technology helped teachers and students stay connected with each other for virtual learning. The UNESCO report estimates that the corona virus pandemic will adversely impact over 157 crore students across 191 countries and also estimated that about 32 crores students are affected in India, including those in schools and colleges. Under such circumstances, the Government has come up with e-learning programme. Remote learning seems a viable solution to students during this time as they offer convenient, on -the- go and affordable access to lessons. We endeavour to transform the RAJUVAS to a centre of academic excellence through giving paramount emphasis on research and innovations, enabled by digitized e-governance modules in academic and administrative systems. I appreciate the efforts made by team RAJUVAS for their remarkable work progress and convert the disaster of COVID-19 pandemic as challenge and convert it into opportunity for work in new mode and direction. Teaching work of students shifted on online mode through Integrated University Management System. We have firm decision and stick towards vision of university with quality education system, innovative research, development of entrepreneurship among farming community and youth. RAJUVAS continue to serve the state and nation through production of competent, skilled and sensitive human resource, quality of animal germplasm, developing organic production system that would catalyze enrichment agri-livestock production system. We are also thankful for ICAR for their support to set up virtual class Room at RAJUVAS under the National Agricultural Higher Education Project This virtual class room facility will facilitate recording and broadcasting of high quality lectures every day. All the students of the country will be benefited by the lecture recorded by it.

Covid-19 has prompted experts to rethink the conventional mode for communication and interactions with farming community. Through the use of technology we can compensate for the impediments posed and inconvenience caused due to COVID-19 pandemic to the services providing, technology transfer and skill development among farmers. In such adverse situation RAJUVAS has planned and organised various e-learning certificate courses, online pashupalak choupal and national and international webinars and others online training programme for welfare of livestock owners.

With the commitment to work for the society, I wish safe, positive and promising time for faculty, students and farmers to achieve desired goal in their life.

  
(Vishnu Sharma)  
Vice-Chancellor

## Academic Activities

### International Webinar on Camel Reproduction

An international webinar on camel reproduction was organized on 12<sup>th</sup> July, 2020 under the joint aegis of Indian Society for Studies of Animal Reproduction (ISSAR) and RAJUVAS, Bikaner. 1324 delegates from 65 countries participated in this webinar. Chief Guest of the webinar was Prof. A.K. Mishra, Chairman, ASRB, New Delhi and Vice-Chancellor Prof. Vishnu Sharma presided over the webinar. The keynote speakers of the webinar were Dr. Sumant Vyas, Principal Scientist, NRCC, Bikaner and Prof. J.S. Mehta delivered their lecture on distinctive features of camel reproduction, snags of camel reproduction and their amelioration, camel obstetrics: pros and cons. Dr. G.N. Purohit coordinated this event.



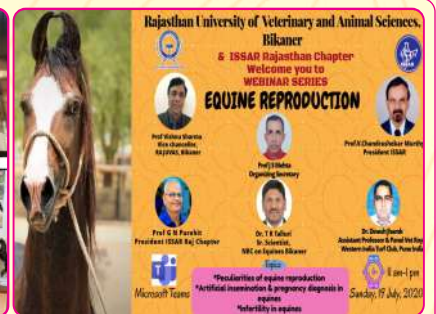
### National Webinar on Startup Entrepreneurship

A national webinar on Startup Entrepreneurship was organized on 17<sup>th</sup> July 2020 by Centre for Livestock Innovation, Knowledge and Entrepreneurship Skills, CVAS, Navania, Udaipur. As Chairman of the webinar Vice-Chancellor Prof. Vishnu Sharma highlighted the importance of entrepreneurship in the current context and utility of these centers in the three constituent colleges of the university. Dr. R.B. Sharma, National Coordinator of the NAHEP, ICAR, New Delhi also shared his views and gave detailed information about the National Agricultural Higher Education Innovation Project run through World Bank. The guest speaker Mr. Rajkumar Joshi, Vice President, Abelon Clean Energy Limited, Ahmadabad, gave his online presentation on start-up entrepreneurship and incubator ecosystem. Prof. Sanjita Sharma, Dean, PGIVER, Jaipur also expressed her views. Total of 664 participants, teachers and students from different institutions and universities of the country participated. Vote of thanks was given by Dean, Prof. Rajiv Joshi. The webinar was organized by Dr. S.K. Sharma, Associate Professor & Head (Co-PI, LIKES, CVAS, Navania).



### International Webinar on Equine Reproduction

An international webinar on equine reproduction was organized on 19<sup>th</sup> July 2020 under the joint aegis of ISSAR and RAJUVAS, Bikaner. Chief Guest of the webinar was Prof. V. Chandershekhar Murti, President, Indian Society for Studies on Animal Reproduction and the function was presided by Vice-Chancellor Prof. Vishnu Sharma. President of Rajasthan Chapter of ISSAR Prof. Govind Narayan Purohit, Dr. T.R Taluri, Scientist, NRCE Bikaner and Dr. Dinesh Jhamb, Assistant professor was key speakers. Prof. J.S. Mehta organized this webinar. Total of 946 participants from 21 countries registered in this international online webinar.



### Plantation Campaign by NCC

The plantation was done on 24<sup>th</sup> July 2020 at RAJUVAS campus under the "Green Earth-Save Nature" campaign under the direction of 1 Raj R&V, NCC Squadron Commanding Officer Col. P.P.S Grewal. Cadets and students were instructed to take care of their saplings by planting one sapling each at their homes. Lt. Dr. Sunita Chaudhary informed that on this occasion Dean Prof. R.K Singh, Director Extension Education Prof. R.K. Dhuria, Director Clinics Prof. A.P. Singh, Director PME Prof. Anju Chahar, Dean PGS Prof. G.N Purohit, Controller of Examinations Prof. Sunil Meharchandani also planted the saplings.



### Workshop on Cleanliness Action Plan

An online workshop on cleanliness action plan was organized under the joint aegis of Mahatma Gandhi National Rural Education Council, Department of Human Resource Development, GOI and RAJUVAS on 31<sup>st</sup> July 2020. Vice Chancellor Prof. Vishnu Sharma emphasized that all activities under the cleanliness action plan released by Government of India for higher education institutions will be more effectively ensured in all three colleges RAJUVAS. University has already taken strong measures to conserve rain water and use of solar energy. A center at the university is also functional for bio-waste disposal. Under this plan, work will be done in all the three colleges of the universities covering all aspects of greenery, water conservation, sanitation and solid waste management, energy conservation and solar energy utilization. MGNREC Officer P. Sudhir Kumar gave detailed outline of the work to be done under the cleanliness action plan. Prof. R.K Singh, Dean, CVAS, Bikaner, Prof. Sanjita Sharma, Dean, PGIVER, Jaipur and Prof. R.K Joshi, Dean, CVAS, Navania, Udaipur attended this workshop. Prof. R.K Dhuria, Nodal Officer, Social Development and Participation Cell coordinated this workshop.



### National Webinar on Animal Production Medicine in the Anthropocene Era

A National webinar on the Animal Production Medicine in the Anthropocene Era was organized by RAJUVAS on 14<sup>th</sup> August, 2020 under the joint aegis of the Veterinary Internal and Preventive Medicine Society and Intas Animal Health. Vice-Chancellor Prof. Vishnu Sharma illuminated that due to zoonotic diseases, the importance of veterinarians has increased today and we have to control diseases spreading from animals to humans through the holistic approach. Further, the demand for animal production like milk, meat, eggs and fish etc. is increasing day by day and in such situation, there is a need to focus on food security to which today's veterinarians can make effective contribution. Lead speaker Prof. A.K. Gahlot, Former Vice-Chancellor of RAJUVAS highlighted that 75% of zoonotic diseases originated from animals. Therefore, in today's era, the importance of production medicine has increased and its main objective is to increase the production capacity of animals by reducing diseases in animals through proper use of multidisciplinary knowledge and skills related to animal health. Organizing Secretary of webinar Dr. Deepika Dhuria informed that 788 veterinarians and scientist from different states took part in the webinar. Dr. Ashok Kumar, General Secretary of the Society welcomed the guests. In the webinar, Dr. Nitin Bhatia, Dr. Mukesh Shrivastava, Dr. D.S. Meena, Dr. J.P. Kachhawa, Dr. Nilesh Sharma, Dr. S.K. Rawal, Dr. Siddki, Dr. Sudhir Mehta, Dr. Nilesh Sindhu and Dr. S.K. Gupta actively participated.



### National Webinar on Metabolic Diseases of Importance in Dairy Animals

National webinar on metabolic diseases of importance in dairy animals was organized by PGIVER, Jaipur in collaboration with Veterinary Internal and Preventive Medicine Society and Intas Animal Health on 27<sup>th</sup> August, 2020. Lead speaker Prof. A. Samad, Director Farms, MAFSU, Maharashtra discussed about three important metabolic diseases viz. Ketosis, Hypophosphatemia and Milk Fever. Prof. Vishnu Sharma, Vice-Chancellor, RAJUVAS, Bikaner was the Chief Guest of the webinar and it was presided over by Prof. Sanjita Sharma, Dean, PGIVER, Jaipur. Dr. Ashok Kumar, General Secretary, VIPMS also remained present during the webinar. More than 1300 professionals got registered and more than 400 participants joined the live event. Dr. D.S. Meena, Assoc. Prof. and Head was the Chief Organizing Secretary and Dr. Rashmi Singh, Assistant Professor worked as Organizing Secretary.



### National Webinar on Entrepreneurship Opportunities in Poultry Sector

A National Webinar on Entrepreneurship Opportunities in Poultry Sector was organized by the Centre for Livestock Innovation, Knowledge and Entrepreneurship Skills (LIKES) CVAS, Navania, Udaipur on dated 28<sup>th</sup> August 2020. This webinar was chaired by Vice-Chancellor, Prof. Vishnu Sharma and highlighted the opportunity of entrepreneurship in the poultry sector in the current perspective. Guest speaker Prof. P.K. Shukla, Registrar, DUVASU, Mathura and Former Joint Commissioner (Poultry) GoI presented various opportunities and possibilities of entrepreneurship in Poultry sector. Welcome address was given by Prof. Sunil Meharchandani, ICAR Nodal Officer of the University. Prof. Sanjita Sharma, Dean, PGIVER, Jaipur also expressed her views. Dean, Prof. Rajeev Joshi spoke about the importance of entrepreneurship development of poultry farming. Prof. R.K. Dhuria, Director Extension Education were also present. A total of 1587 participants registered and participated in the event through online mode. Webinar was organized by the Dr. S.K. Sharma, Co-PI, LIKES, CVAS, Navania, Udaipur.



### National Webinar on Translating NEP Goals into Practice

PGIVER, Jaipur organized a National Webinar on Blending local and global knowledge and innovation system: Translating NEP (New Education Policy) goals into practice on 29<sup>th</sup> August, 2020. Padmashree Prof. Anil Kumar Gupta, Retd. Prof., IIM, Ahmadabad as lead speaker of the webinar emphasized that our traditional knowledge of agriculture and animal husbandry should be blended with modern technology for better production and economic development of farmers as per the need of the society. The webinar was presided over by Prof. Vishnu Sharma, Vice-Chancellor, RAJUVAS, Bikaner and Prof. Sanjita Sharma, Dean, PGIVER, Jaipur gave vote of thanks. A total of 704 participants participated in this webinar. Dr. Rashmi Singh and Dr. Ashok Baidha, Co-PI, LIKES Centre were the coordinators for this event.



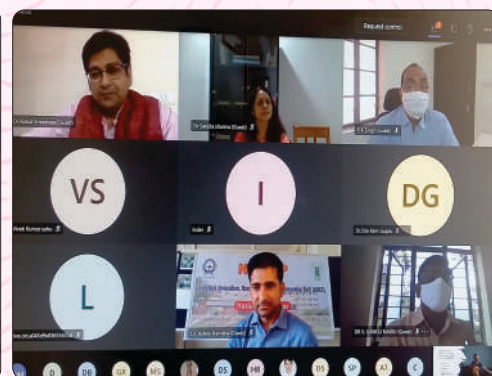
### National Webinar on Pediatric Health Management of Dog and Cats

PGIVER, Jaipur organized a National Webinar on Pediatric Health Management of Dog and Cats- Crux of Practical Approach on 15<sup>th</sup> September, 2020. Prof. J.P. Varshney, Retd. Principal Scientist, IVRI was the lead speaker of the webinar. Prof. M.R. Saseendranath, Vice-Chancellor, KVASU, Kerala was the Chief Guest, Prof. A.K. Gahlot, Former Vice-Chancellor, RAJUVAS and Member, Governor Advisory Board, Rajasthan was the Guest of Honour and Prof. Vishnu Sharma, Vice-Chancellor, RAJUVAS, Bikaner was the Patron of the webinar. The webinar was presided over by Prof. Sanjita Sharma, Dean, PGIVER, Jaipur. In this webinar, more than 1323 professionals got registered and more than 552 participants joined the live event. Dr. D.S. Meena, Associate Professor and Head, Department of Veterinary Medicine was the Chief Organizing Secretary and Dr. M.M. Mali, Assistant Professor worked as Organizing Secretary and Dr. Rashmi Singh, Dr. J. Bargujar, Dr. N.K. Jeph and Dr. Nazeer Mohammed, Assistant Professors worked as Co-Organizing Secretaries of this event.



### National Webinar on How to Develop Yourself for Career

PGIVER, Jaipur organized a National Webinar on How to Develop Yourself for Career (not Job) in Veterinary and Animal Husbandry Domain on 26<sup>th</sup> September, 2020. Dr. Rahul Srivastava, Vice-President, Hester Bio-Science Limited as lead speaker of the webinar enlightened about the various avenues of veterinary profession and the secrets to get success in these fields. He told that various fields in this profession are still unexplored and there are great scopes to explore them. Prof. R.K. Singh, Dean and Faculty Chairman, CVAS, Bikaner and Prof. Sanjita Sharma, Dean, PGIVER, Jaipur advised that the students should first identify their field of interests by themselves and then they should consult experts and successful entrepreneurs of that field for guidance. Dr. Rashmi Singh and Dr. Ashok Baidha, Co-PI, LIKES Centre coordinated this webinar.



### International Webinar on One Health Approach

Centre of Diagnosis, Surveillance & Response of Zoonotic Diseases (CDSRZ), PGIVER, Jaipur under RKVY project organized an International Webinar on One Health Approach for the Prevention and Control of emerging zoonosis and Rabies in India on 28<sup>th</sup> September, 2020. The webinar was presided over by Prof. Vishnu Sharma, Vice-Chancellor, RAJUVAS, Bikaner and former M.P. and Mahabharata Television Serial fame and Veterinarian Dr. Nitish Bharadwaj was the Chief Guest of the webinar. ILRI South Asia Representative Dr. H. Rahman, WHO Representative Dr. Barnadette Abela Ridder, Former Vice Chancellor, RAJUVAS and Member of Governor Advisory Board, Rajasthan Prof. A.K. Gahlot, Dean, PGIVER, Jaipur Prof. Sanjita Sharma presented their views on the topic. In this webinar, more than 1185 professionals got registered and more than 1010 participants joined the live event from ten different countries including England, USA, Sri Lanka, Bangladesh, Nepal etc. Dr. D.S. Meena, P.I. of the project was the Organizing Secretary and Dr. N.K. Jeph, Assistant Professor and Dr. Monika Soni, Project Associate worked as Co-Organizing Secretary of this event.



## Superannuation

- ❖ Sh. Amraram, Department Animal Genetics & Breeding, CVAS, Bikaner has superannuated on 31<sup>st</sup> July, 2020.
- ❖ Sh. Omprakash Purohit, Technical Assistant, VUTRC, RAJUVAS, Bikaner has superannuated on 31<sup>st</sup> July, 2020.
- ❖ Sh. Ramesh Kumar Purohit, Assistant Agricultural Officer, LFRMTC, RAJUVAS, Bikaner has superannuated on 31<sup>th</sup> August, 2020.
- ❖ Prof. A.K. Kataria, Director, HRD and Prof. & Head, Department of Veterinary Microbiology, CVAS, Bikaner has superannuated on 31<sup>th</sup> August, 2020.



Sh. Amraram



Sh. Omprakash



Sh. Ramesh Kumar



Prof. A.K. Kataria

## Celebrations

### 74<sup>th</sup> Independence Day

#### CVAS, Bikaner

74<sup>th</sup> Independence Day' was celebrated with great enthusiasm at main campus Bikaner following all COVID-19 guidelines and protocols issued by various authorities. Vice-Chancellor Prof. Vishnu Sharma hoisted the tricolour national flag. Following the COVID-19 guidelines, prizes to students, faculty, staff members and colleges/ units for their outstanding contribution in the field of teaching, research and extension were announced.

#### CVAS, Navania (Udaipur)

74<sup>th</sup> Independence Day was celebrated with great enthusiasm at CVAS, Navania, Udaipur with keeping social distancing and corona guidelines. Prof. Rajeev Joshi, Dean hoisted the tricolour national flag and paid homage to the freedom fighters. On this occasion, Additional Chief Judicial Magistrate, Vallabh Nagar, Smt. Savitri Nirbhik also planted sapling in the college premises. Lt. Col., Thomas K. Thomas, Commanding officer, 2 Raj. R&V, NCC and teaching and non teaching faculty members and NCC staff were also present.

#### PGIVER, Jaipur

74<sup>th</sup> Independence Day Celebration" was celebrated on 15<sup>th</sup> August, 2020 at PGIVER, Jaipur. Prof. Sheela Choudhary, Head, Department of Animal Nutrition hoisted the national flag and addressed the august gathering. Patriotic songs were presented by the faculty members. All the teaching and non-teaching staffs participated in this event by following COVID-19.



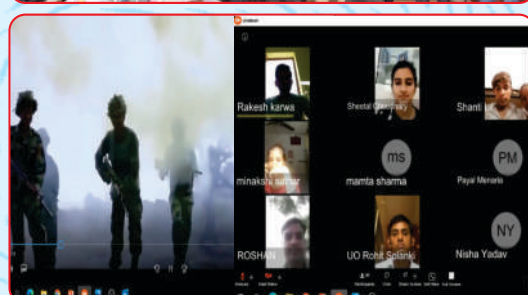
### World Zoonosis Day

On the occasion of World Zoonosis Day, a poster on theme of Awareness to prevent zoonotic diseases was released by Vice-Chancellor Prof. Vishnu Sharma on 6<sup>th</sup> July, 2020. Dr Rajani Joshi, Incharge, Department of Public Health, CVAS, Bikaner developed the poster. On this occasion Dean Prof. R.K Singh, DSW Prof. S.C. Goswami, Director HRD Prof. A.K. Kataria, Director Research Prof. Hemant Dadhich, Director Extension Education Prof. R.K. Dhuria, Dr. Manohar Sain and Dr. Ashok Dangi were present.



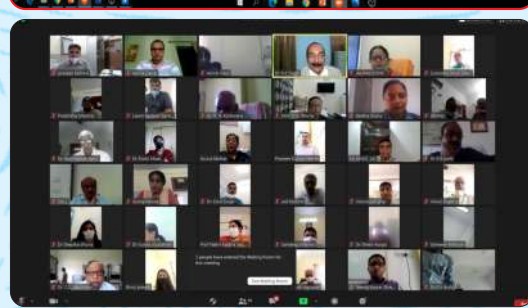
### Kargil Vijay Diwas

Kargil Vijay Divas was celebrated by the 2 Raj R&V NCC Regiment CVAS, Navania, Udaipur via organizing an online webinar on 26 July 2020 under the guidance of Prof. R.K. Joshi, Dean CVAS, Navania, Udaipur. Commanding Officer Lt. Col. Thomas K. Thomas called upon the NCC cadets to serve the country, state and society. Various online competitions were successfully organized under the webinar. 231 NCC cadets, PI staff, ANOs and CTOs actively participated. The program was coordinated ANO Dr. Sanweer Khattoon and CTO Dr. Sunil Arora and Dr. Goverdhan Singh.



### Teacher's Day Celebrations

Teacher's Day was celebrated enthusiastically at RAJUVAS on 5<sup>th</sup> September 2020 by organizing a webinar. All the teachers of the university greeted each other on Teachers' Day. Vice-Chancellor Prof. Vishnu Sharma remembered former President of India Dr. A.P.J. Abdul Kalam and Dr. Sarvepalli Radhakrishnan and emphasized their contribution in the development of country. A good teacher should always be vigilant to increase his knowledge and discharge his actions with caution. Dean and Faculty Chairman Prof. R.K Singh, Prof. Sanjita Sharma, Dean, PGI-VER Jaipur and Prof. R.K Joshi Dean, CVAS, Navania pondered the glory and importance of the Guru. On this occasion the senior faculty members of RAJUVAS Dr. R.K. Tanwar, Dr. C.S. Vaishnav, Dr. Anil Ahuja and Dr. T.K. Gahlot expressed their views. All the faculty members were connected online. Students took blessings from faculty members on this occasion. Dr. Praveen Bishnoi conducted the webinar.



**University Social Responsibility**

**COVID-19 Awareness Campaign in Daiyan**

An awareness campaign was organized on 16<sup>th</sup> July, 2020 in adopted village Daiyan. The villagers were motivated to follow the guidelines of COVID-19. They were also made aware about health and sanitation issues.

**Plantation Drive in village Jaimalsar**

A plantation drive was organized in village Jaimalsar on 28<sup>th</sup> July, 2020. Prof. R.K. Singh, Dean, CVAS, Bikaner, Prof. S.C. Goswami, Dean Student Welfare, Prof. Hemant Dadhich, Director Research, Prof. R.K. Dhuria, Director Extension Education, Dr. Neeraj Sharma, Coordinator USR, Ex-Sarpanch and villagers planted the saplings in the village. 1001 plants were distributed among the villagers under Ek Ghar-Ek Paudha Abhiyaan and motivated for care and management of the plants.

**Cleaning of Catchment Area of Pond in Jaimalsar**

An already established village old pond in village Jaimalsar was renovated by the university with the assistance of local people and Gram Panchayat from 30<sup>th</sup> July, 2020 to 1<sup>st</sup> August, 2020. Sh. Ajeet Singh, Registrar, RAJUVAS & Prof. R.K. Dhuria, Director Extension Education, started cleaning of catchment area of pond. The silt and mud was removed from the bottom and catchment area. Around 3 Bigha of area was cleared through JCB machine and 4 tractors, local people, Gram Panchayat & MNREGA laborers actively participated in this activity.

**Establishment of Computer Literacy Center at Jaimalsar**

A Computer Literacy Center has been established in the Gram Panchayat Bhawan of Jaimalsar by RAJUVAS under University Social Responsibility. The center was inaugurated by Prof. Vishnu Sharma, Vice-Chancellor on 29<sup>th</sup> August, 2020. Prof. Sharma emphasized that in the era of computer, interested students, rural youth and villagers would be educated about basics of computer through this centre. Initially forty eight school children have been enrolled and they will be made aware about computer literacy for minimum of fifteen days period. Sh.Arvind Bishnoi Comptroller; Prof. Sanjita Sharma, Dean, PGIVER, Jaipur; Prof. R.K. Singh, Dean, CVAS, Bikaner, Prof. R.K. Dhuria, Director Extension Education, Dr. Neeraj Sharma, Coordinator USR, Ex-Sarpanch and villagers were present on this occasion.



**Sub Centre of AICRP on Marwari Goats**

Under skill development activity a Sub Centre of All India Coordinated Research Project (AICRP) on Marwari Goat was established in the adopted village Jaimalsar. Under this Sub Centre 400 goats of Marwari breed have been registered for conservation and breeding improvement. The Tagging was done for proper identification and managing the records.

**Skill Development Gosthi on Marwari Goats**

A skill development Gosthi was organized by Sub Centre of AICRP on Marwari Goat on scientific management & breeding improvement of Marwari goat on 7<sup>th</sup> September, 2020. The livestock owners were also made aware about prevention and control of seasonal diseases in goats. Umbrellas were also distributed to the registered goat breeders. Prof. Urmila Pannu, PI, coordinated this event.



# What's New

## Inclusion of RAJUVAS in NAHEP Component-2 of ICAR

RAJUVAS, Bikaner has been included in National Agricultural Higher Education Project (NAHEP) Component-2 project by ICAR, New Delhi. One Virtual Classroom has been setup at Bikaner campus under this project through which students can connect anywhere anytime with the faculty members through online mode. These lectures will be recorded also on ICAR server and will be available for veterinary students spread over the country in different universities. Total 18 Universities has been selected for this project in country and RAJUVAS is one of them.

## E-Certificate Courses under CVE Programme

RAJUVAS has started four online e-courses under continuing veterinary education programme for the field veterinarians to make them aware about the latest techniques and to revise subject knowledge. Vice Chancellor Prof. Vishnu Sharma said that these online trainings have been started through newly created Directorate of Human Resource under coordination of Prof. A.K. Kataria, Director, HRD. Realizing the need to make veterinarians aware of modern techniques and different diagnosis and treatment methods use in the field condition, E-certificate courses have been started.

### E-Certificate Course on Diagnostic Imaging

First e-course on Diagnostic Imaging Techniques for Veterinary Practitioners (Digital Radiography, Ultrasound and CT) was held from 20-24 July 2020. Dr. Praveen Bishnoi, Dr. Sakar Palecha and Dr. Mahendra Tanwar, subject experts of Department of Surgery and Radiology delivered lectures on the topics related. Total 127 participants from 22 states of country as well as from Nigeria, UAE, Bangladesh, Ethiopia and Bhutan were registered for this e-course. Participants were given e-certificate for this course.

### E-Certificate Course on Management of Functional Bovine Infertility- the Pit Falls & Clues

E-course on field based approaches for management of functional bovine Infertility- the Pit Falls & Clues was held from 27-29 July 2020. Dr. G.N. Purohit, Dr. J.S. Mehta, Dr. Mitesh Gaur, Dr. Pramod Kumar, Dr. Ashok Kumar and Dr. Amit Kumar, subject experts of Veterinary Gynaecology and Obstetrics delivered lectures on the topics related. Total 45 participants were registered for this e-course.

### E-Certificate Course on Veterinary Orthopedics

Third e-course was conducted on Veterinary Orthopedics from 3-7 August, 2020. Dr. Praveen Bishnoi, Dr. Suresh Jhirwal and Dr. Anil Kumar Bishnoi, subject experts of Department of Veterinary Surgery and Radiology, CVAS, Bikaner conducted the online lectures. Participants were given e-certificate also for this course.

### E-Certificate Course on Animals Species Identification in Vetro-legal Cases

E- Certificate course on animals species identification in vetro-legal cases for field veterinarians was held from 9-11 August, 2020. Dr. Sanjeev joshi, Dr. Pankaj Thanvi and Dr. Ashok Dangji, subject experts of Department of Veterinary Anatomy, CVAS, Bikaner delivered lectures on the topics related. Total 68 participants were registered for this e-course.

<p>Rajasthan University of Veterinary and Animal Sciences, Bikaner College of Veterinary and Animal Science, Bikaner</p> <p><b>e-Certificate Course</b> <b>'Diagnostic Imaging'</b></p> <ul style="list-style-type: none"> <li>On Line Course</li> <li>5 Days</li> <li>Online Lecture through PPT</li> <li>Demo video of the procedures</li> <li>Discussion after each lecture</li> <li>Online Registration</li> <li>e-Certificate</li> </ul> <p><b>Speakers:</b> Dr. P. Bishnoi, Dr. Sakar Palecha, Dr. Mahendra Tanwar</p> <p>Department of Veterinary Surgery &amp; Radiology &amp; ANP BIKANER, RAJUVAS</p> <p>Contact: Dr. P. Bishnoi, 9982361529, drpbishnoi29@gmail.com</p>	<p>Rajasthan University of Veterinary and Animal Sciences, Bikaner College of Veterinary and Animal Science, Bikaner</p> <p><b>e-Certificate Course</b> <b>Animals Species Identification in vetro-legal cases for field veterinarians</b></p> <ul style="list-style-type: none"> <li>On line Course</li> <li>3 Days</li> <li>Online Lecture through PPT</li> <li>Discussion after each lecture</li> <li>Online Registration</li> <li>e-Certificate</li> </ul> <p><b>Speakers:</b> Dr. Sanjeev Joshi, Dr. Pankaj Thanvi, Dr. Ashok Dangji</p> <p>Department of Veterinary Anatomy</p> <p>Contact: Dr. Sanjeev Joshi, 9414426383, dr.sanjeevjoshi@yahoo.co.in</p>	<p>Rajasthan University of Veterinary &amp; Animal Sciences, Bikaner, Rajasthan</p> <p><b>e-training on "Field Based Approaches for Management of Functional Bovine Infertility-the pit falls &amp; clues"</b></p> <p><b>Speakers:</b> Prof. G.N. Purohit, Dr. J.S. Mehta, Dr. Mitesh Gaur, Dr. Pramod Kumar, Dr. Ashok Kumar, Dr. Amit Kumar</p> <p>Department of Veterinary Gynaecology and Obstetrics</p> <p>Contact: Dr. P. Bishnoi, 9982361529, drpbishnoi29@gmail.com</p>	<p>Rajasthan University of Veterinary and Animal Sciences, Bikaner College of Veterinary and Animal Science, Bikaner</p> <p><b>e-Certificate Course</b> <b>Veterinary Orthopaedics</b></p> <ul style="list-style-type: none"> <li>On Line Course</li> <li>5 Days</li> <li>Online Lecture</li> <li>Demo video of the procedures</li> <li>Discussion after each lecture</li> <li>Online Registration</li> <li>e-Certificate</li> </ul> <p><b>Speakers:</b> Dr. Praveen Bishnoi, Dr. Suresh Jhirwal, Dr. Anil Kumar Bishnoi</p> <p>Department of Veterinary Surgery &amp; Radiology &amp; ANP BIKANER, RAJUVAS</p> <p>Contact: Dr. P. Bishnoi, 9982361529, drpbishnoi29@gmail.com</p>
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## Memorandum of Understanding

### MoU with National Research Center on Equine, Hisar

A MoU has been signed between National Research Centre on Equines (NRCE), Hisar and RAJUVAS on 4<sup>th</sup> July, 2020. Vice-Chancellor Prof. Vishnu Sharma and Director NRCE, Dr. Yash Pal Sharma signed the agreement and handover the documents of MoU to each other. This mutual agreement will be helpful in the interest of researchers, scientists and livestock owners working for the well being of equines. On this occasion Dean and Faculty Chairman, CVAS, Bikaner Prof. R.K. Singh; Director Extension Education Prof. R.K Dhuria; Director, HRD Prof. A.K. Kataria; Director, PME Prof. Anju Chahar, Prof. B.N. Shringi and OSD Dr. Govind Singh from RAJUVAS and Principal Scientist NRCE, Hisar Dr. R.K. Goyal; Officer Incharge NRCE, Bikaner Dr. S.C. Mehta and Principal Scientist NRCE, Bikaner Dr. R.A. Legha were present.



### MoU with International Brook India Association

A MoU has been signed between International Brook India Association and RAJUVAS on 29<sup>th</sup> July, 2020. Vice-Chancellor Prof. Vishnu Sharma and Brook India Chief Executive Officer Brig. J.S. Dharmadharn signed the agreement. Prof. Vishnu Sharma said that with this agreement, RAJUVAS will ensure its participation in the research and conservation of horse breeds and development of knowledge and skill of horse breeders around the country. Prof. R.K. Singh, Dean and Faculty Chairman, CVAS, Bikaner; Prof. R.K Dhuria, Director Extension Education, Prof. Hemant Dadhich, Director Research and Prof. Anju Chahar, Director PME was present on this occasion. Chief Program Officer of Brook India Ratnesh Rao, Chief Animal Health and Welfare Officer Dr. Nidhish Bhardwaj also witnessed the agreement.



### Coordination Center of NBAGR at RAJUVAS

The National Bureau of Animal Genetic Resources (NBAGR), Karnal and RAJUVAS will work together to enhance the productivity in indigenous cattle through genetic improvement. Vice-Chancellor Prof. Vishnu Sharma highlighted that the research and development work on six indigenous cattle is being done at eight LRSs of the university including Rathi, Tharparkar, Sahiwal, Kankrej, Gir and Malvi indigenous cattle breed of Rajasthan. The results of the joint study on genetics basis will increase the production capacity of animals. Dr. R.K. Vij, Director, NBAGR, Karnal said that a national project to increase the production capacity of indigenous cattle from genetics is being worked out. The Bureau can make an unprecedented contribution to the development of native breeds by sharing the genotype data of indigenous cows and survey studies of breeds with the RAJUVAS. In the meeting, it was agreed to set up a coordination center at the RAJUVAS. The meeting was attended by Dean and Faculty Chairman, CVAS, Bikaner Prof. R.K. Singh, DSW Prof. S.C. Goswami, Director Research Prof. Hemant Dadhich, Director Extension Education Prof. R.K Dhuria, Head of the Department of LPM Prof. V.K. Chaudhary and Head of the Department of ABG Prof. Urmila Pannu.





## Capacity Building and Skill Development

### Online Training on Disaster Management

Centre for Disaster Management Technology for Animals, RAJUVAS, Bikaner organized three online training programmes in the month of July and August, 2020. The training was attended by 52 livestock owners. Dr. Praveen Bishnoi, Principal Investigator delivered the information about animal disaster management plan. Mr. Shailendra Singh and Dr. Sohel Mohammed delivered expert lectures.

### Online Farmers Training by VUTRC's

#### VUTRC, Suratgarh (Sriganganagar)

VUTRC, Suratgarh organized 16 online training programmes in this quarter. Total 380 livestock farmers were benefitted. Dr. Rajkumar Berwal, Asstt. Professor and Dr. Anil Ghorela, Teaching Associate organized these trainings.

#### VUTRC, Loonkaransar (Bikaner)

VUTRC, Loonkaransar organized 15 online training programmes in this quarter. Total 318 livestock farmers were benefitted. Dr. Abhishek Gupta, Asstt. Professor, Dr. Manish Songara, Teaching Associate and Dr. Pramod Mohata, Teaching Associate organized these trainings.

#### VUTRC, Ratangarh (Churu)

VUTRC, Churu organized 11 online training programmes in this quarter. Total 176 livestock farmers were benefitted. Dr. Mukesh Chand Sharma, Asstt. Professor, Dr. Sushil Kumar Meena, Teaching Associate and Dr. Vinay Kumar, Teaching Associate organized these trainings.

#### VUTRC, Kumher (Bharatpur)

VUTRC, Kumher (Bharatpur) organized 13 online training programmes in this quarter. Total 193 livestock farmers were benefitted. Dr. Arun Kumar, Asstt. Professor, Dr. Munesh Kumar Pushp, Teaching Associate and Dr. Rohit Kumar Tiwari, Teaching Associate organized these trainings.

#### VUTRC, Bakalia (Nagaur)

VUTRC, Bakalia (Nagaur) organized 15 online training programmes in this quarter. Total 261 livestock farmers were benefitted. Dr. Mahendra Tanwar, Asstt. Prof., Dr. Parmjeet, Teaching Associate and Dr. Gaurav Kumar Jain, Teaching Associate organized these training camps.

#### VUTRC, Sirohi

VUTRC, Sirohi organized 10 online training programmes in this quarter. Total 134 livestock farmers were benefitted. Dr. Sudeep Solanki, Asstt. Professor and Dr. Rabindra Kumar, Teaching Associate organized these training camps.

#### VUTRC, Dungarpur

VUTRC, Dungarpur organized 10 online training programmes in this quarter. Total 183 livestock farmers were benefitted. Dr. Rajesh Singhatia, Asstt. Professor and Dr. Sunil Kumar Rajoria, Teaching Associate and Dr. Virendra Singh, Teaching Associate organized these trainings.

#### VUTRC, Ajmer

VUTRC, Ajmer organized 14 online training programmes in this quarter. Total 314 livestock farmers were benefitted. Dr. Madan Mohan Mali, Asstt. Professor and Dr. G.N. Purohit (Retd.) organized these trainings.

#### VUTRC, Kota

VUTRC, Kota organized 18 online training programmes in this quarter. Total 474 livestock farmers were benefitted. Dr. Atul Shankar Arora, Asstt. Prof. and Dr. Nikhil Shringi, Teaching Associate organized these training programmes.

#### VUTRC, Tonk

VUTRC, Tonk organized 11 online training programmes in this quarter. Total 264 livestock farmers were benefitted. Dr. Deepak Gill, Teaching Associate, Dr. Narendra Choudhary, Teaching Associate and Dr. Rajesh Saini, Teaching Associate organized these training programmes.

#### VUTRC, Dholpur

VUTRC, Dholpur organized 13 online training programmes in this quarter. Total 265 livestock farmers were benefitted. Dr. Subhash Chand, Asstt. Professor, Dr. Pradeep Pal Singh, Teaching Associate and Dr. Parmal Singh, Teaching Associate organized these trainings.

#### VUTRC, Bojunda (Chittorgarh)

VUTRC, Bojunda (Chittorgarh) 15 online training programmes in this quarter. Total 231 livestock farmers were benefitted. Dr. Mukesh Chand Sharma, Asstt. Professor and Dr. Mukesh Kumar Meena Teaching Associate organized these trainings.

#### VUTRC, Jodhpur

VUTRC, Jodhpur organized 11 online training programmes in this quarter. Total 194 livestock farmers were benefitted. Dr. Tikam Chand Goyal, Asstt. Professor, Dr. Amit Kumar Chotiya, Teaching Associate and Dr. Mahendra Pal Poonia, Teaching Associate organized these trainings.

#### VUTRC, Jhunjhunu

VUTRC, Bojunda (Chittorgarh) organized 10 online training programmes in this quarter. Total 164 livestock farmers were benefitted. Dr. Pramod Kumar, Asstt. Prof., Dr. Kamal Mohan, Teaching Associate and Dr. Sukhveer Singh Teaching Associate organized these trainings.

#### KVK, Nohar (Hanumangarh)

KVK, Nohar organized 6 on-campus and 6 off campus training programmes in this quarter. Total 424 farmers were benefitted. Dr. Manohar Lal Sain, Asstt. Professor and Mr. Bheiru Singh, Mr. Akshay Ghintala, Mr. Mukesh Kumar Verma, Miss. Anjali Sharma organized these programmes.

### New Assignment

Prof. Tribhuwan Sharma, Professor, Department of Animal Nutrition, CVAS, Bikaner took over the charge of Director, Human Resource Development, RAJUVAS, Bikaner on 31<sup>st</sup> August, 2020.



## Post-Graduates Research

Thirty students completed their Post-Graduated research projects and awarded provisional degree certificates of M.V. Sc and Ph.D. during 1<sup>st</sup> July to 30<sup>st</sup> September, 2020.

S. No.	Title of Thesis	Name of Department	Name of Advisor	Name of Student
1.	Study on effect of challenge feeding on performance of Sahiwal cattle in the arid region of Rajasthan	Livestock Production & Management	Dr. S.C. Goswami	Vikramjit Singh (Ph.D)
2.	Evaluation of linear external skeletal fixation system for long bone fracture healing in dogs	Veterinary Surgery and Radiology	Dr. Anil Kumar Bishnoi	Mohan Lal
3.	Imaging studies of Cadavar mandible, its correlation with mandibular fracture and their surgical management in camels ( <i>Camelus dromedarius</i> )	Veterinary Surgery and Radiology	Dr. Mahendra Tanwar	Hitendra Singh Bhabhor
4.	Effect of various concentration of caffeine on pre-freeze and post thaw quality of Surti buffalo ( <i>Bubalus bubalis</i> ) bull semen	Animal Reproduction, Gynaecology & Obstetrics	Dr. Mitesh Gaur	Anklesh Katara
5.	Pathological studies on spontaneously occurring liver conditions of goats ( <i>Capra hircus</i> ) in southern region of Rajasthan	Veterinary Pathology	Dr. Kamal Purohit	Pravin Kumar Purohit
6.	Population trend and management practices of camel in arid region of Rajasthan	Livestock Production & Management	Dr. Mohan Lal Choudhary	Rajpal Singh Udawat
7.	Effect of melatonin and canthaxanthin on cooled storage of Magra ram semen	Animal Reproduction, Gynaecology & Obstetrics	Dr. J.S. Mehta	Shivendra Kumar Bhalothia
8.	Effect of <i>Moringa oleifera</i> leaves, seeds and multienzyme supplementation on performance of broiler chickens	Animal Nutrition	Dr. Sheela Choudhary	Khushiram Yadav
9.	Appraisal of superimposed stressors versus physiological approaches in Magra sheep entailing thermal indices, metabolomics, water retention ability, antioxidant status and responses of adrenals, organs, tissues and cells	Veterinary Physiology	Dr. Nalani Kataria	Suita Pareek (Ph.D)
10.	Epidemiological studies on gastrointestinal parasitic infections in dairy animals of transitional plain in Luni basin of Rajasthan	Veterinary Parasitology	Dr. P.K. Paliania	Durga Bai Sodha
11.	Sequencing and analysis of TLR-3 gene of camel ( <i>Camelus dromedarius</i> )	Animal Biotechnology	Dr. S. Maherchandani	Kanchan
12.	Effect of supplementation of garlic ( <i>Allium sativum</i> ) powder as feed additive on nutrient utilization and growth performance in goats	Animal Nutrition	Dr. Rajesh Nehra	Sunil Kumar Meena
13.	Studies on some aspects on sub clinical mastitis in cattle	Veterinary Epidemiology and Preventive Medicine	Dr. Anju Chahar	Kavita Jaidiya
14.	Effect of incorporation of dried distillers grains with soluble (DDGS) on performance of Magra lambs in arid zone of Rajasthan	Animal Nutrition	Dr. Tribhuwan Sharma	Umesh Kumar Parjapat (Ph.D)
15.	Anthelmintic therapeutic efficacy studies on seeds of moringa ( <i>Moringa oleifera</i> ) and pumpkin ( <i>Cucurbita maxima</i> ) in goats	Veterinary Pharmacology and Toxicology	Dr. Ashok Gaur	Hukma Ram Parihar
16.	Anthelmintic activity of various extracts of <i>Carica papaya</i> seeds and <i>Moringa oleifera</i> leaves in naturally infested goats	Veterinary Pharmacology and Toxicology	Dr. Pratishtha Sharma	Kartar Singh
17.	Ultrasonographic features of preovulatory follicle, estral endometrial echotexture and early conceptus development in Marwari mares	Animal Reproduction, Gynaecology & Obstetrics	Dr. Dinesh Kumar Jhamb	Deepak
18.	Quality evaluation of goat meat balls incorporated with pomegranate peel powder and essential oils	Livestock Products Technology	Dr. Arun Kumar	Anuj Kumar
19.	Effect of supplementation of <i>Ocimum sanctum</i> (tulsi) leaf and <i>Zingiber officinale</i> (ginger) powder as feed additives on growth performance and nutrient utilization of broilers	Animal Nutrition	Dr. R.K. Dhuria	Shende Kavita Ajabrao (Ph.D)
20.	Molecular characterization and antibiogram of <i>Escherichia Coli</i> isolated from meat and meat products	Veterinary Public Health	Dr. Abhishek Gaurav	Manoj Kumar Kalwaniya
21.	Therapeutic studies of <i>Dalbergia sissoo</i> and <i>Aegle marmelos</i> in calf diarrhoea	Veterinary Clinical Medicine, Ethics and Jurisprudence	Dr. J.P Kachhawa	Shivangi Pandey
22.	Effect of dietary supplementation of neem ( <i>Azadirachta indica</i> ) and tulsi ( <i>Ocimum sanctum</i> ) along with different bedding materials on performance of broilers	Livestock Production & Management	Dr. A.K. Jhirwal	Rajesh Mohta
23.	Study on effect of improved shelter management practices on the performance of Sahiwal cattle in arid region of Rajasthan	Livestock Production & Management	Dr. S.C. Goswami	Rajni Arora (Ph.D)
24.	A clinical study on diagnosis and surgical management of ocular dermoids in cattle	Veterinary Surgery and Radiology	Dr. S. K. Jhirwal	Gaurav Sharma
25.	Occurrence and pathology of various conditions of intestine with special reference to enteritis in cattle calves ( <i>Bos indicus</i> ) in western region of Rajasthan	Veterinary Pathology	Dr. Hemant Dadhich	Rajiv Rathi
26.	Occurrence and pathology of various conditions of intestine with special reference to enteritis in buffalo calves ( <i>Bubalus bubalis</i> ) in western region of Rajasthan	Veterinary Pathology	Dr. Manisha Mathur	Ashish Meena
27.	Isolation and characterization of <i>Bacillus cereus</i> in raw poultry meat sold at retail meat outlets of Bikaner	Veterinary Public Health	Dr. Rakesh Rao	Paramjeet Kaur
28.	Effect of dietary supplementation of tulsi ( <i>Ocimum sanctum</i> ) leaf and synbiotic powder as feed additives on growth performance and nutrient utilization in broiler chicks	Animal Nutrition	Dr. Kavita A. Shende	Altaf Hussain Kohri
29.	Comparative efficacy of evaporative cooling pad and fogger system on growth performance and carcass characteristics of broiler chicken in semi-arid region of Rajasthan	Livestock Production & Management	Dr. Sanjita Sharma	Vipin Chandra
30.	Analysis of abiotech stressor vis-à-vis physiological gambits in female non descript indigenous cattle encompassing fluid and acid base status, liver semiology, oxidative stress biomarkers, energy tweaking and endocrine retorts	Veterinary Physiology	Dr. Nalani Kataria	Bhagat Singh Saini (Ph.D)

## Dignitaries Visits

### Excursion of MGSU Vice-Chancellor Prof. V.K. Singh at RAJUVAS

Prof. V.K. Singh, Vice-Chancellor of Maharaja Ganga Singh University visited RAJUVAS on 17<sup>th</sup> August, 2020. Vice-Chancellor Prof. Vishnu Sharma welcomed and informed about the organization, administration and teaching, research and extension activities carried out at RAJUVAS. Prof. V.K. Singh interacted with Dean-Directors of the RAJUVAS and made discussion on different aspects.



### Visit of Group Commander at 1 Raj R&V, Sqn NCC, Bikaner

NCC Group Commander of Headquarters, Jodhpur Col. M.S. Mahar visited 1 Raj R&V, Sqn NCC, Bikaner on 11<sup>th</sup> September, 2020. Col. Mahar also honoured the cavalry cadets who joined the parade of New Delhi on Republic Day. The commanding officer of the squadron, Col. P.P.S. Grewal made the group commander aware of all the activities of the unit by giving a power point presentation. Col. Mahar also inspected the horse line, office and store and interacted with the NCC cadets. Lt. Dr. Sunita Chaudhary coordinated the inspection work.



### DIG, BSF Bikaner Sector Visited RAJUVAS

DIG Border Security Force, Bikaner Sector, Mr. Pushendra Singh Rathore have made formal visit at RAJUVAS on 18th September 2020. Vice-Chancellor Prof. Vishnu Sharma welcomed and informed about the teaching, research and extension activities carried out by the University in various districts of Rajasthan. Mr. Rathore also visited Centre for Disaster Management Technology for Animals and appreciated the facility and work of centre i.e. trainings, fire safety cattle hut and disaster management, air conditioned ward for heatstroke and burn cases.



## Students Activities

### Webinar on Transition Management in Dairy Animals

An online webinar on "Target 150 - Transition Management in Dairy Animals" was conducted on 16<sup>th</sup> September, 2020 at CVAS, Bikaner in collaboration with Virbac under their Budding Vet Initiative for Final Year, Internship and M.V.Sc students. Prof. R.K. Singh, Dean and faculty Chairman was Chief Guest of the webinar. Dr. Sanjay Awaghathe from Virbac gave the presentation on the topic. Dr. Ashok Dangi, ADSW, CVAS, Bikaner coordinated this event.

### Training on Animal Welfare

An online training on Animal welfare & compassionate handling was conducted on 18<sup>th</sup> September, 2020 for the students of RAJUVAS. Training on animal welfare and its frameworks, natural behaviour of equine, how equines communicate, guiding principles to handling with compassion and welfare, friendly handling & restraining was provided to students. This training was conducted by Dr Nidhish Bhardwaj, Head of Animal Health & Welfare, Brook India. Dr. Ashok Dangi, ADSW, CVAS, Bikaner coordinated this event.

### Digital Poster Making Competition

Digital poster making competition on Prevention of Rabies Disease caused by dogs was organized by the Department of Veterinary Public Health, CVAS, Bikaner on digital mode on the occasion of World Rabies Day on 28th September, 2020. Kritka Panwar (first), KusumIta Jhalaria (second), Kamelsh Saini (third), Monika Choudhary, Kamal Raj and Kanika Poonia (consolations) were given e-certificate for this event. Dr. Rajni Joshi as Chief Organizing Secretary, Dr. Deepika Dhuria and Dr. Manohar Sain as Organizing Secretary coordinated this competition.



**Intensive Plantation Drive on Independence Day in RAJUVAS Campuses**

An intensive plantation drive was organized in the university Bikaner campus as well as all other units i.e. PGIVER, Jaipur, CVAS, Navania (Udaipur), Livestock Research Stations, Animal Husbandry Diploma Institute and Veterinary University Training And Research Centers as per the directives of Hon'ble Chancellor and Governor of Rajasthan Sh. Kalraj Mishra. After Independence celebration, plantation programme was organized at Bikaner main campus on 15th August, 2020 following COVID-19 guidelines like social distancing, wearing masks, use of sanitizer etc. All the teaching and non-teaching staffs actively participated and planted different types of plants under the guidance of Vice-chancellor Prof. Vishnu Sharma. All the University Officers and Deans-Directors also actively participated in this noble cause. Around 5734 saplings of different species were planted in all the units of RAJUVAS located in various districts of Rajasthan.



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To,

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