



# Annual Report 2018-19



। पशुधनं नित्यं सर्वलोकोपकारकम् ।

**Rajasthan University of Veterinary and Animal Sciences**  
**Bikaner-334 001 (Rajasthan)**



# ANNUAL REPORT

2018-19

वार्षिक प्रतिवेदन

2018-19



। पशुधनं नित्यं सर्वलोकोपकारकम् ।

**Rajasthan University of Veterinary and Animal Sciences**

**Bikaner-334 001**





। पशुधनं नित्यं सर्वलोकोपकारकम् ।

### Patron

**Prof.(Dr.) Vishnu Sharma**  
Vice-Chancellor

### Chief Editor

**Prof.(Dr.) Anju Chahar**  
Director PME  
Editorial Board

## Advisory Board

**Prof. (Dr.) Rajesh Kumar Singh**

Faculty Chairman and Dean, CVAS, Bikaner

**Prof. (Dr.) R. K. Joshi**

Dean, CVAS, Navania, Vallabh Nagar

**Prof. (Dr.) Sanjita Sharma**

Dean, PGIVER, Jaipur

**Prof. (Dr.) A. P. Singh**

Director Clinics

**Prof. (Dr.) R. K. Dhuria**

Director Extension Education

**Prof. (Dr.) G. N. Purohit**

Dean Post-Graduate Studies

**Prof. (Dr.) S.C. Goswami**

Dean Students Welfare

**Prof. (Dr.) Hemant Dadhich**

Director Research

**Prof. (Dr.) Tribhuwan Sharma**

Director HRD

**Prof. (Dr.) Vijay Kumar**

Controller of Examination

**Prof. (Dr.) Anju Chahar**

Director PME

**Sh. Ajeet Singh Rajawat**

Registrar

**Sh. Arvind Bishnoi**

Comptroller

**Er. P. M. Mittal**

Director of Works

**Er. Ashok Dangi**

Incharge, IUMS

**Published by**

**Director**

**Prioritization, Monitoring and Evaluation Cell (PME)**

Ph. : 0151-2544297, Fax. : 0151-25444297

email:dpmerajuvas@gmail.com

**Printed at : Diamond Printers & Stationary, Bkn**

Mobile : 9784105819; email : vijayjp786@gmail.com





। पशुधनं नित्यं सर्वलोकोपकारकम् ।

## Rajasthan University of Veterinary & Animal Sciences Bikaner (Rajasthan)

Bijay Bhawan, Near Pt. Deen Dayal Upadhyay Circle,  
Bikaner-334001 (Raj.)  
Tel. : 0151-2543419(O), 2549348( Fax)  
E-mail : vcrajuvas@gmail.com

## Preface

After a remarkable beginning in 2010, and a phenomenal growth in the first few years, Rajasthan University of Animal and Veterinary Sciences, Bikaner has now entered in a phase of consolidation. The University covers entire Rajasthan state with 24 institutions including three Veterinary colleges, eight Livestock Research Stations (LRS) and thirteen Veterinary University Training and Research Centers (VUTRC's).

It is a matter of great pleasure that RAJUVAS has been recognized under UGC 12B Act by University Grants Commission. Another accomplishment is that one of the constituent Colleges of the University, CVAS, Navania, Udaipur is included in the First Schedule of Veterinary Council of India. RAJUVAS has become the First University of state in implementation of digital technology and e-governance measures in teaching, research and extension work. It has also become first to setup 100 KVA solar powers stations in its campus to generate 1.40 lakh units every year. The efforts of RAJUVAS to save environment i.e. establishment of rain water harvesting system and about 10 lakh liters of rain water conservation and Bio gas system etc which is model for the state.

RAJUVAS is promoting the conservation and improvement of six indigenous breeds viz. Rath, Tharparkar, Gir, Sahiwal, Kankrej and Malvi. RAJUVAS has also provided free indigenous cattle calves to the Gaushalas and to progressive cattle breeders of state. The Gaushalas have become the centers of indigenous cattle conservations.

The farmers and livestock owners of the state are getting direct benefits of different new techniques and innovations developed by University i.e. 24x7 toll free helpline service and "Dhine Ri Bataya" radio programme broadcast on all the radio stations of Rajasthan state at a time. University is also pursuing its efforts to execute state specific research through state sponsored 10 centers of advance research viz. Space-based Technology in Animal Science, Wildlife Management and Health, Ethno-Veterinary Practices and Alternative Medicines, Livestock Feed Resources Management and Technology, Engineering and Technology, Conservation of Animal Biodiversity, Organic Animal Products Technology, Disaster Management Technology for Animals, Vaccinology and Biological Products Research Centre, Animal Bio-Medical Waste Disposal Technology. Centre and state funded infrastructural development for benefits of livestock owners, students and researchers through Rashtriya Krishi Vikas Yojna (RKVY).

I hope RAJUVAS will be able to make their place in the top Universities of the country and help in implementing the schemes for education, research and extension in the interest of livestock owners and farmers. We need to work hard and diligently to take this prestigious University on new heights with the efforts of team RAJUVAS.

The Annual Report is the manifestation of sincere commitment and unremitting endeavors of Directorate (P,M&E) and her team for abiding and unswerving efforts in this venture for bringing out this Annual Report. I am sure that this report will be helpful to planners, scientists, students and other stakeholders.

Bikaner

**(VISHNU SHARMA)**  
Vice-Chancellor

## CONTENTS

### Overview i

### 1. Introduction

- 1.1 Initiation of Rajasthan University of Veterinary and Animal Sciences
- 1.2 Role and Mandate of the University
- 1.3 Objectives of the University
- 1.4 Powers and Functions of the University

### 2. University Administration

- 2.1 Board of Management (BOM)
- 2.2 Academic Council
- 2.3 Faculties
- 2.4 Board of Studies
- 2.5 Research Council
- 2.6 Extension Education Council
- 2.7 Planning Board
- 2.8 Finance Committee
- 2.9 Core Advisory Committee
- 2.10 Public Relations Cell
- 2.11 Dean Students' Welfare
- 2.12 Prioritization, Monitoring and Evaluation (PME) Cell
- 2.13 University Student's Placement Cell

#### Officers of the University

#### University Heads of the Departments

#### Faculty Strength

### 3. Finance and Budget

## 4. Teaching

- 4.1 Courses Offered
- 4.2 Constituent and Affiliated Colleges of the University
  - 4.2.1 College of Veterinary and Animal Science, Bikaner
  - 4.2.2 College of Veterinary and Animal Science, Navania, Vallabh Nagar, Udaipur
  - 4.2.3 Post Graduate Institute of Veterinary Education & Research, Jaipur
- 4.3 Private Colleges Affiliated to the University
- 4.4 Institute offering Two years Diploma in Animal Husbandry

## 5. Research

- 5.1 Directorate of Research for Veterinary and Animal Science, Bikaner
- 5.2 Farm and Field Based Research
  - 5.2.1 Livestock Research Station, Chandan
  - 5.2.2 Livestock Research Station, Nohar
  - 5.2.3 Livestock Research Station, Beechwal
  - 5.2.4 Livestock Research Station, Vallabh Nagar
  - 5.2.5 Livestock Research Station, Bikaner
  - 5.2.6 Livestock Research Station, Kodamdesar, Bikaner
- 5.4 New Research Project

## 6. Extension Education

## 7. Awards

## 8. Distinguished Visitors

## 9. Future Vision





## Over-View (Activities and Advancements)

The Rajasthan University of Veterinary and Animal Sciences (RAJUVAS), Bikaner is a constituted body corporate established under Sub-section (3) of Section 1 of the Rajasthan University of Veterinary and Animal Sciences Act, 2010 by incorporating certain units, pertaining to Veterinary & Animal Sciences, from Swami Keshwanand Rajasthan Agricultural University, Bikaner and Maharana Pratap University of Agriculture & Technology, Udaipur. The University came into existence on 13th day of May, 2010 with Prof. (Dr.) Col. A. K. Gahlot as the Founder Vice-Chancellor of the University and he successfully completed his tenure for seven years.

The Rajasthan University of Veterinary and Animal Sciences, Bikaner has been established for the purpose of development of Veterinary and Animal Sciences in the state of Rajasthan in specific and in the country in general by ensuring proper and systematic instruction, training, research and extension in up to date system of Veterinary and Animal Sciences and its allied sciences. The University is marching ahead to provide technical and scientific support for transforming state animal husbandry from sustainability to improve profitability. Improved production in association with productivity spurts has led the State to be one of the leaders in the country for milk, meat and wool production with the support of scientific and technological interventions and a favorable policy environment.

Teaching, research and extension initiatives taken during this year has armed the University with the preparedness to meet the future challenges particularly the conservation of valuable indigenous germplasm of prized livestock breeds, improvement in their health and production, etc. Realising the importance of e-governance and potential of information and communication technology, the University took initiatives since inception i.e. 2010-11. Steps were taken to bring complete e-governance in the University.

### e-Governance and Internet Availability

1. The University is committed to have e-governance in all affairs of students, staff, establishment, accounts, stores, livestock farms and TVCC. Twenty

seven modules has been installed and commissioned with separate server required for the purpose. The University shifted completely on e-governance for the most of the actions. The recruitment process has also been under taken through online system.

2. All hostels, entire campus and even staff colony has been brought under connectivity. It has improved the research status and bibliographical portion of the thesis. Some of the students of both UG & PG boys as well as girls are using their own laptops. Internet surfing, social networking and use of email has been improved. The students are also applying to US and other foreign universities for seeking admission to peruse higher studies.
3. The teaching capacity has improved significantly as a result of internet availability on every computer and establishment of smart class room systems. Faculty have resorted to use of power point presentations during instructional hours, both theory and practicals. Almost all departments have seminar rooms and other facilities to facilitate it.

Rajasthan University of Veterinary and Animal Sciences, Bikaner is state's pioneering institution in the field of Veterinary & Animal Sciences. The University aspires to be one of the world's leading academic & research institutions in the vast spectrum of livestock and allied sectors while eyeing on economic growth & development in the state. With the wide-spread technological advancement in today's dynamic world, the IT technology has revolutionized the way education is imparted and the way the academic institutions function. Thus in its perseverance to achieve operational excellence, the University has strategically decided to adopt a comprehensive "e-governance" solution for management of the entire university in order to achieve optimal allocation & utilization of its resources with the vision to create an environment where all students, faculty and staff have easy access to the information technologies with modern tools for successful operations so as to meet mandated functions of the university.



## Mission-statement

The University endeavors to evolve as Centre of Learning Excellence in Veterinary & Animal Sciences, imparting knowledge & research through usage of latest IT tools & technologies, with the aim of developing into a fully automated academic institution of national as well as international repute.

## Approach towards E-Governance

The University strategically decided to adopt e-Governance solution in order to provide the services/information to its stakeholders in shortest time frame. Thus by implementing IT enabled services at the university, which turned out to be a catalyst to change the existing manual management processes. The RAJUVAS has taken a giant leap towards efficiently and effectively to manage the university operations and bring consistency in its entire approach which has been a motivational force for the employees of the university.

## Integrated University Management System-

IUMS is web enabled application that takes care of almost all the functions of University. RAJUVAS has achieved new-found operational efficiency after successful implementation of the Integrated University Management System. After Implementation of IUMS, the University effectively manages the student's entire academic cycle beginning from pre-admission to alumni management; taking them through admission, academics, fee management, exams and results processing with issuance of the degree/certificate. It is also powered with user-friendly reports and user-friendly interface thereby ensuring maximum user efficiency (bring analytical ability of reports here). With increasing number of students every year, this system helps RAJUVAS to maintain students' entire life cycle details, which is accessible on a click. System also helped university in generation of various Dynamic & Analytical reports for planning & decision making. University has also implemented Employee/Student portal that has given great ease to students & employees in their normal day-to-day activities and interaction with university.

Now, Students applies their exams through online portal and get various notifications related to their attendance, fee, exams & results. Employee applies/approves their leaves through employee portal, generates their salary slips, get loan and advances details online. RAJUVAS has fully automated the entire Finance & HR practices of university like the recruitment, employee personal & professional details, payroll process, salary slip generation, detailed bank statement to be sent to the bank and conveyance as per the vouchers to name a few. It also helped RAJUVAS in documentation required in appointment letters, creation of masters, maintenance of increments, other allowances like arrears, calculation of supplementary bills, advances taken against salary, etc. The various modules were installed in IUMS i.e. OSES-On Screen Evaluation & Advanced Examination Management, Pre-Admission, Recruitment, Self Service Portal (SSP), HRMS, Payroll & Establishment, Stores & Purchase, Budget Management, Placement Service, VC & Administrative Offices, GPF & Pension, Financial Accounts, Admission & Academics, Examination & Results, Veterinary Hospital Management, Live-Stock & Farm Management, Industry University Interaction, Alumni Management, Research, Letter Movement System, File Movement System, Attendance & Fee management System, Meetings & Committee Management, Events & Seminar Management, Assets & Estate Management, Mail Server & SMS Server, Smart Class, Library Automation through RFID Technology.

## Establishment of DATA CENTRE

Data Centre Establishment is a key requirement for a successful e-Governance implementation at any University /Institution. The University is still in process for establishing a Data Centre. Currently University has established a Server Room for its ready need. Using Dynamic Dashboards & Data Analysis feature, university has forecasted its coming 50 years liabilities of Salary & Pension that data is submitted to state higher authorities and being appreciated by the authorities

## Disaster Recovery

To keep this in mind about the importance of Data, University configured cluster server on third part data centre for data & application backup.



## Salient out comes

- ❖ Internet connectivity to each desk of scientist, office staff, offices and hostels.
- ❖ Wi-Fi connectivity to girls' hostel, PG hostel, VC secretariat, Registrar office, Comptroller office and all Deans and Directors.
- ❖ Better financial handling and management
- ❖ Online processes for admissions, counseling and recruitment application processing up to interview letters
- ❖ Farmers SMS advisory service
- ❖ Effective functioning of Public Relation Cell, Placement Cell and Recruitment Cell
- ❖ Improved teaching skills
- ❖ Improved learning skills of the students due to 24X7 availability of net in hostels and labs, having easy access to e-learning resources in library, easy preparation of presentations and knowledge up gradation through net and frequent users of emails and social media
- ❖ Better depiction of information on website having exponentially rising visitors those get server based information accessible from website and all online processes through website.

## Road Ahead

- ❖ Mobile App
- ❖ Security Surveillance System
- ❖ Video Presence Solution
- ❖ Digital Document Circulation and e-note tracking
- ❖ E Vet-Connect Platform

Reference booklet "e-Governance Initiatives of RAJUVAS" Volume 2 published by IUMS Centre, RAJUVAS.

## Continuing Capacity Building

### I. By Collaborations

The University has continued efforts to increase collaborations with other institutions in 2018-19 and signed MoUs for meaningful collaboration in the areas of mutual interest with Central sheep and Wool Research Institute (Avikanagar), Indian Institute of Technology (Khargpur), Ayurved Limited, Sahaj Inclusive Opportunities (India) Pvt. Ltd. (Jaipur),

Reliance Industry Limited, Animal Breeding Centre, Salon, Raebareli – U.P. (Embryo Transfer technology), ICAR-National Research Centre of Equines (NRCE), hisar, शहर नत्थानियान गोचर भूमि संरक्षण एवं विकास समिति, बीकानेर, MicroGram Social Development Foundation, Bengaluru, Prakartik Trust Bangalore, URMUL TRUST, Bikaner, Mahavtar Babaji Kamdhenu Goshala, Kanak, Vrindava, Agriculture Skill Council of India (ASCI), Indian Veterinary Research Institute Deemed University, Izatnagar- U.P.(IVRI), CCS National Institute of Animal health, Baghpat (Post Graduate Training and Research), National Research Centre on Camel, Bikaner (NRCC)

### II. By Scientific Activities

Research projects have been sanctioned to the University under Rastriya Krishi Vikas Yojna (RKVY). The research projects continuing in year 2018-19 are as under.

#### RKVY Projects

- ❖ Establishment of Microbiological and Biotechnological Information System Network (Bioinformatics and Chemo Informatics) Centre for exploring Interconnections of Molecular biological Application in the Field of Animal Husbandry.
- ❖ Establishment of Live Demonstration Models of Diversified Livestock Production Systems for Motivating Adaption to Enhancing Agricultural income Rajasthan University of Veterinary and Animal Sciences, Bikaner
- ❖ Establishment of Malvi Cattle breeding farm and setting up of an institute for starting Diploma in Animal Husbandry (AHDP) in Dug, (Jhalawar)
- ❖ Establishment of Goat breeding farm for Demonstration and Dissemination of Remunerative Goat farming System
- ❖ Centre for Diagnosis, Surveillance and Response of Zoonotic Diseases
- ❖ Genetic Improvement of Tharparkar Cattle Breed to be Implemented in Jaisalmer (RKVY) Livestock Research Station Chandan
- ❖ Demonstration and Dissemination of More Remunerative Sirohi Goat Farming System Livestock Research Station Bojunda Chittorgarh (NMPS- RKVY)





Research projects have been sanctioned to the University under ICAR. The research projects continuing in year 2018-19 are as under.

## ICAR Project

- ❖ All India Coordinated Research Project on Goat Improvement (Sirohi Field Unit), Vallabh Nagar
- ❖ Network Project on Buffalo Improvement (NPBI)
- ❖ Mega Sheep Seed Project (Sonadi Sheep)
- ❖ All India Network Programme on Diagnostic Imaging and Management of Surgical Conditions in Animals
- ❖ Characterization of Sojat Goat (CSG)
- ❖ All India Coordinated Research Project on Goat Improvement (Marwari Field Unit), Bikaner
- ❖ Pet (Pups) Production/Pet Spa/Pet Boarding Experiential Learning Unit, CVAS Navania

Research projects have been sanctioned to the University under State Plan. The research projects continuing in year 2018-19 are as under.

## State Plan

- ❖ Evaluation, Improvement and Conservation of Tharparkar Cattle Germplasm LRS Chandan
- ❖ Conservation, Evaluation and Improvement of Tharparkar Cattle through breeding Livestock Research Station Beechwal
- ❖ Evaluation and Improvement of Rathi cattle through breeding Livestock Research Station Bikaner
- ❖ Conservation, Evaluation and Improvement of Rathi cattle through breeding Livestock Research Station Nohar
- ❖ Conservation, Evaluation and Improvement of Kankrej Cattle through breeding Livestock Research Station Kodamdesar
- ❖ Sahiwal Cattle Breeding Farm at Kodamdesar Bikaner
- ❖ Gir Cattle Breeding Farm Livestock Research Station Vallabh Nagar
- ❖ Apex Centre, Bikaner Animal Disease Investigation, Monitoring and Surveillance
- ❖ Centre for Ethno-Veterinary Practices and Alternative Medicines
- ❖ Animal Bio-Medical Waste Disposal Technology Centre
- ❖ Centre for Conservation of Animal Biodiversity

- ❖ Centre for Disaster Management Technology for Animals
- ❖ Centre for Organic Animal Products Technology
- ❖ Engineering and Technology Centre
- ❖ Centre for Use of Space-based Technology in Animal Science
- ❖ Centre for Studies on Wildlife Management and Health
- ❖ Livestock Feed Resource Management and Technology Centre
- ❖ Vaccinology & Biological Products Research Centre

Research projects have been sanctioned to the University under Revolving Fund. The research projects continuing in year 2018-19 are as under.

- ❖ Conservation and Development of Marwari Goat LRS Chandan
- ❖ Fodder and Fodder Seed Production LRS Chandan
- ❖ Sirohi Goat Breeding Project LRS Beechwal
- ❖ Green Fodder and Seed Production LRS Beechwal
- ❖ Income Generation through Farming Activities LRS Bojunda
- ❖ Preparation and Supply of ORS for Animals
- ❖ Pilot Project on Alternate Energy Generation through Biogas Based Electricity Production, CVAS Navania Udaipur
- ❖ Preservation and Articulation of Bones of Different Species of Animals to Enhance the Teaching Quality of Veterinary Education

## III. By Other Activities

### Gosthie organized in Smart Village Daiyan

A gosthie was organized on "Importance of cleanliness in human health". The villagers were made aware about importance of indigenous breeds of cattle. The work of construction of pond has been started in speedy manner. It will be completed as soon as possible. A medical camp is regularly organized in the village in every month to provide the medical facilities to the people.

### National Institutional Ranking

RAJUVAS stood 101-150 Rank band amongst all universities in India in National Institutional Ranking Framework (NIRF) under the Ministry of Human Resources Development, Government of India.



## Pictorial Exhibition at CVAS, Bikaner

A three days pictorial exhibition on Naya Bharat Hum Karke Rahenge was organized by the Information and Communication Department, Government of India from 11-13 July, 2018 at CVAS, Bikaner with the objective to aware the people about the beneficial programmers/schemes being run by GOI. A goathi on Saaf Niyat Sahi Vikas was also conducted on 11 July, 2018 to make aware the people about the beneficial programmes being run by the Government. Field Outreach Bureau, Media Unit of Central Information and Broadcast Ministry, GoI organized this programme at CVAS, Bikaner.

## Guest Lecture on Heart Diseases and Lifestyle Management at PGI-VER, Jaipur

A lecture on Heart Diseases and Lifestyle Management was delivered by Dr. Chetan Sharma, SAAOL Heart Centre, Jaipur and his team on 28 July, 2018 at PGI-VER, Jaipur. Causes of heart diseases, heart attack, stress management, cooking of food without oils etc. were elaborated to the audience with the help of documentary film of Dr. Bimal Chhajer. He also discussed about the wireless angiography (non-invasive CT coronary scan), cure of heart diseases without operation etc. during his lecture.

## BSMA Meeting at CVAS, Navania (Udaipur)

A meeting of Broad Subject Matter Area Committee (BSMA) was conducted on 7-8 August, 2018 at CVAS, Navania, Udaipur by the ICAR about suggestions and discussions for course curriculum to be decided for Master and Doctorate Students of Veterinary Clinical Subject. The Chairman of BSMA Dr. Jit Singh, Convener of BSMA Dr. D. B. Patil and other scientist members of BSMA from all over the country have participated in the meet.

## Organization of Anti-Ragging Committees

Anti Ragging Committee meeting were organized in all the constituted college i.e. CVAS, Bikaner, CVAS, Navania, PGI-VER, jaipur for the newly admitted B.V.Sc & AH students in september months as per the guideline issued by Hon'ble Supreme Court, UGC and RajBhavan.

## Orientation Programme for newly recruited Assistant Professors

The orientation training programme for the newly recruited Assistant Professor as per UGC regurment were undertaken by RAJUVAS, Bkn.

## Lecture on Legal Awareness at CVAS, Bikaner

A lecture on legal awareness about the public oriented services of Lok Adalat was held on 6<sup>th</sup> October, 2018 at CVAS, Bikaner for the students and faculty members. Dr. Kamal Dutt President of Permanent Lok Adalat, Bikaner was chief speaker.

## Canines Dental Workshop CVAS, Bikaner

Two workshop on a approach to diagnosis and treatment of dental disorders in canines were organized under AINP-DIMSCA project of ICAR on 16-17 October, 2018 and 22-23 February, 2019 respectively by Department of Veterinary Surgery and Radiology. In each workshop total 30 participants were trained on different advanced dental procedures.

## Cleanliness Awareness Campaign

A cleanliness awareness campaign was organized in the adopted village of University i.e. Daiyan on 25 October, 2018. About 70 children of primary school and Angan-Bari Kendra participated in campaign. Villagers were motivated to maintain hygienic measures and cleanliness of their surrounding area.

## Blood Donation Camp by CVAS, Bikaner

A blood donation camp was organized in collaboration with Rajasthan State Scout Guide Union, Bikaner and CVAS, Bikaner on 29 November, 2018. NSS volunteers were motivated by organising several lectures on importance of blood donation. About 20 NSS volunteers donated blood in the camp.

## National Conference of SVSBT at CVAS, Navania (Udaipur)

The VI Annual Convention of Society for Veterinary Science & Biotechnology and National symposium on newer concepts and approaches for improvement in animal health and production was organized by CVAS, Navania (Udaipur) from 13-14 December, 2018. A total of 181 scientists and post graduate students participated from various veterinary and agriculture universities of India.

## Medical Health Camp

A medical health camp was organized in the adopted village of University i.e. Daiyan in coordination with Deptt. of Medical Health and Family Welfare on 19 December, 2018. The people having seasonal diseases like fever, common cold, coughing,



joint pain etc. were treated in the camp. Iron pills were distributed to women and children were vaccinated. About 80 people were benefitted in the camp.

## Interactive Session at PGI-VER, Jaipur

An interactive session with Dr. Ravi Murarka, President, American Association of Veterinarians of Indian Origin (AAVIO) was organized on opportunities for veterinarians in USA for students and faculty on 22 December, 2018 at PGI-VER, Jaipur. Dr. Murarka discussed about the various avenues for veterinarians in USA and shared his vast personal experience in surgery of animals.

## Alumni Meet of 36<sup>th</sup> Batch

36 Batch Meet and meeting of Alumni Association of CVAS, Bikaner was organized from 24-25 December, 2018 at CVAS, Bikaner. In this reunion alumnus working in different parts of the country have participated with great enthusiasm. Thirty five students of 1989 batch attended this meet with their families.

## Infertility Treatment Camp by CVAS, Bikaner

An infertility treatment camp was organized at Kalu, Lunkaransar on 20 January, 2019 by the Department of Veterinary Gynaecology & Obstetrics, CVAS, Bikaner. Total 150 animals were brought in the camp for treatment.

## Inauguration of Students Union Office

Minister of Energy and Public Health Engineering Department Dr. B.D. Kalla and Minister of State for Higher Education and Revenue Department Sh. Bhanwar Singh Bhati, inaugurated the Office of Veterinary University and Veterinary College Students Association on 27 January, 2019. Ms. Rita Choudhary, former MLA of Mandawa (Jhunjhunu) also present as Guest of Honour. Vice- Chancellor Prof. Vishnu Sharma welcomed the guest.

## Nasha Mukti and Anaemia Mukti Abhiyaan by CVAS, Bikaner

Nasha Mukti and Anaemia Mukti Abhiyaan were organized in the University adopted Smart Village Jaimalsar on 30 January, 2019. Villagers, school children and employees of various departments took oath for Give-up never to use any intoxication. Iron and folic acid tablets were distributed among villagers.

## National Symposium of ISVM at CVAS, Bikaner

A three days National symposium on holistic approach in Veterinary Medicine for better animal health to meet challenges of one health mission and 37<sup>th</sup> Annual convention of Indian Society for Veterinary Medicine was organized at CVAS, Bikaner from 1-3 February, 2019. Total 450 veterinary doctors, Scientists and subject matter specialists participated in the symposium. Total 600 research papers were presented in the symposium.

## Motivational Workshop at CVAS, Navania (Udaipur)

The Placement Cell of CVAS, Navania, (Udaipur) organized a motivational lecture for undergraduate students on 6 February 2019. Mr. Sanjay Dutta, Principal, Maharana Mewar Public School, Udaipur and Ms. Shanu Lodha, Administrative Officer, Indian Institute of Management, Udaipur were the keynote speaker on this occasion. They emphasized that the students work hard to achieve academic excellence and use their energy in positive direction.

## Laparoscopic Unit Donated by Maharaja Ganga Singh Trust

Maharaja Ganga Singh trust has donated the Laparoscopic unit worth of Rs 32.00 Lacs to Surgery Department of CVAS, Bikaner for painless and less lacerations surgery for small animals. President of Maharaja Ganga Singh Trust Princess Rajyashree Kumariji and Hon'ble Vice-Chancellor, Prof. Vishnu Sharma inaugurated the Laparoscopic Unit

## Horse Show at CVAS, Bikaner

Horse Show was organized on 13<sup>th</sup> February, 2019 by the 1 Raj R&V SQN NCC Unit of CVAS, Bikaner. Chief Guest of the show was DDG NCC Air Commd. T.K. Sinha and Hon'ble Vice-Chancellor Prof. Vishnu Sharma. Other distinguished guests, all Dean/Directors and large number of students, faculty members and family members witnessed the show..

## Motivational Lecture at CVAS, Navania (Udaipur)

A motivational lecture for 4<sup>th</sup> Year B.V.Sc. & A.H. & M.V.Sc. students was organized on 1<sup>st</sup> March 2019. Mr. Khemraj Choudhary, Former Additional Chief Secretary (IAS), Govt. of Rajasthan graced the occasion





as keynote speaker and gave the novel thought of CQ+PQ>IQ (i.e. Curiosity Quotient plus Passion Quotient is more than intelligence quotient) and suggested that good thoughts and proper action are the tools to mark anyone towards perfection.

## Motivational Lecture at PGI-VER, Jaipur

A motivational lecture on potential in animal husbandry sector and secrets for success in life was delivered by Mr. Khemraj, Retired IAS and Ex. Additional Chief Secretary, Department of Animal Husbandry, Government of Rajasthan on 8<sup>th</sup> March, 2019 for faculty and students of PGI-VER, Jaipur.

## Poshan Pakhwada at CVAS, Navania (Udaipur)

Poshan Pakhwada was organized from 8 -22 March, 2019 at CVAS, Navania (Udaipur). During the pakhwada various activities like Shramdaan at CVAS, Navania (Udaipur) campus, basic data survey at Ranchhodpura village, distribution of fruits to children of primary school.

## IV. Administrative Decisions

### Nineteenth meeting of Board of Management

The Nineteenth meeting of Board of Management was held on 20<sup>th</sup> April, 2018 under the chairmanship of Vice- Chancellor Prof. (Dr.) B. R. Chhipa. Sports tournament and tours for non-teaching staff will be started to give them exposure.

### Twelfth Meeting of Academic Council

12<sup>th</sup> meeting of Academic Council of RAJUVAS was held on 28<sup>th</sup> September, 2018 under the Chairmanship of Hon'ble Vice-Chancellor Prof. Vishnu Sharma. Prof. Sharma addressed the council members and informed that work on formation of university statutes is in progress and will be sent to government for approval. In the meeting various issues related to academics and students were approved by the council members. The format for issuing the Information Bulletin of the University in the welfare of students/guardians was approved. The Academic Council approved the affiliation for affiliated private colleges and animal husbandry diploma institutes for the year 2018-19. The format of transcript of M.V.Sc. and Ph.D. degrees was also approved by granting approval of the photographs of the students in the degree certificate given by the

university. The proceedings of the 11<sup>th</sup> academic council were approved in the meeting. The meeting was attended by Prof. Ravindra Sharma, former Director Research, LUVAS, Hisar and Prof. R.K. Bagharwal Veterinary College, Mhow (MP) as new members of Academic Council of RAJUVAS. All the Deans, Directors, Registrar, Comptroller and Heads of different departments attended the meeting.

### Finance Committee Meeting

Review meeting of the physical and financial targets of various projects and programs of current financial year was held under the Chairmanship of Vice-Chancellor Prof. Vishnu Sharma on 5<sup>th</sup> October, 2018. Vice-Chancellor Prof. Sharma in the meeting emphasized that the budget allocated in different schemes should be used with full efficiency in a fixed time frame. Vice-Chancellor directed the Principal Investigators and DDO of all the projects to take prompt action in the use of budget according to the requirement. Discussions were also held on the development of resources and methods of income generation in the meeting. The Comptroller Sh. Arvind Bishnoi reviewed the progress report submitted by the DDOs of State and Centrally sponsored schemes. In the meeting, Registrar, Dean-Director, Head of the Departments and PI of various schemes had participated.

### University Adopted Village Development Meeting

As per the directives of Raj Bhawan, a meeting of district administration and RAJUVAS officials was conducted under the Chairmanship of Vice-Chancellor Prof. Vishnu Sharma on 28<sup>th</sup> January, 2019 for development of Jaimalsar as smart village. District Collector Kumar Pal Gautam, emphasized that the needs of the village, economic status and community services should be assessed by the survey before implementation of any other scheme in Jaimalsar village. Work plan for smart village development was discussed at length in the meeting. Jaimalsar Sarpanch, Comptroller, Dean-Directors, University Officers and Officers of District level departments and Nodal Officer of Smart Village were present in the meeting.

### Twentieth Meeting of BOM

Twentieth Meeting of Board of Management was held on 18.12.2018 at RAJUVAS, Bikaner. Ordinances and Statutes of University were approved by BOM & same were sent to Raj Bhawan, Jaipur for further processing & approval.



## Fifth Research Council Meeting

The 5<sup>th</sup> Research Council meeting was conducted under the Chairmanship of Vice-Chancellor Prof. Vishnu Sharma on 14<sup>th</sup> March, 2019 at Vice-Chancellor Secretariat. Vice Chancellor Prof. Sharma said that considering the demand of time, organic animal production activities should be included in our priority at all the Livestock Research Centers of RAJUVAS. Vice Chancellor said that the fertile land of the different farms of RAJUVAS should be taken in the use of green fodder, certified seed and precious crop production, which would increase the income of the university. The proceeding of fourth research council was approved in this meeting. The PI of different LRS presented their progress report. Prof. R.K. Singh, Director Research along with other Dean-Director, Head of Department, PI of Research Projects attended the meeting.

## Fifth Extension Education Council Meeting

Meeting of Extension Education Council was conducted at Vice-Chancellor Secretariat under the Chairmanship of Vice-Chancellor Prof. Vishnu Sharma on 15<sup>th</sup> March, 2019. Vice Chancellor Prof. Vishnu Sharma said that after the establishment of Veterinary University in the state, in eight years, Research and Extension in the animal husbandry sector is getting positive results. The University will provide entrepreneurship training through VUTRC in different districts of state. All the Incharges of KVK and VUTRC presented their annual progress reports.

## V. What's New?

### Prof. Vishnu Sharma appointed as Vice-Chancellor of RAJUVAS

Hon'ble Governor of Rajasthan and Chancellor Sh. Kalyan Singh appointed Prof. Vishnu Sharma as new Vice-Chancellor of RAJUVAS, Bikaner on 8<sup>th</sup> August 2018. Prof. Vishnu Sharma took over the charge on 9<sup>th</sup> August 2018.

### Inauguration of milk Parlor

Department of Livestock Products & Technology has started milk parlor for sell of "RAJUVAS Fresh Milk Products" at CVAS, Navania, Vallabhnagar, Udaipur. The parlor was inaugurated on 21<sup>st</sup> June 2018 and various milk products like Shrikhand, Paneer, Lassi and Khoa etc are available.

## Inauguration of Newly Constructed Building of PGIVER

Inauguration Function of newly constructed building of PGIVER, Jaipur was organized on 5<sup>th</sup> September, 2018. Dr. Prabhu Lal Saini, Hon'ble Minister for Agriculture, Horticulture, Animal Husbandry and Fishery was the Chief Guest on this occasion. Shri Ashok Parnami, Hon'ble MLA, Adarsh Nagar, Shri Khemraj, Additional Chief Secretary, Animal Husbandry, Prof. (Dr.) Vishnu Sharma, Hon'ble Vice Chancellor, RAJUVAS, Dean and Directors of RAJUVAS, Officials of Animal Husbandry Department, teaching and non-teaching staffs and students of PGIVER, Jaipur were present on this occasion.

## New Assignments

- ❖ Prof. Hemant Dadhich was appointed as Dean Post Graduate Studies after superannuation of Prof. S. K. Kashyap on 31.05.2018.
- ❖ Prof. R.K. Dhuria took over the charge of Dean, College of Veterinary and Animal Science, Navania, Vallabhnagar, Udaipur on 1<sup>st</sup> August, 2018.
- ❖ Prof. Sanjita Sharma took over the charge of Dean, Post Graduate Institute of Veterinary Education and Research, Jaipur on 10<sup>th</sup> August, 2018.
- ❖ Prof. Rakesh Rao, Prof. & Head, Department of Veterinary Public Health, CVAS, Bikaner took over the charge of Faculty Chairman and Dean of College of Veterinary and Animal Sciences, Bikaner on 22<sup>nd</sup> January, 2019.
- ❖ Prof. G.C. Gahlot, Prof. & Head, Dept. of ABG, CVAS, Bikaner has taken over the charge of Director, Planning, Monitoring and Evaluation (PME), RAJUVAS, Bikaner.
- ❖ Sh. Ajit Singh Rajawat, RAS, Senior officer of Rajasthan Public Service, has taken over the charge of Registrar, RAJUVAS, Bikaner on 1<sup>st</sup> March, 2019.
- ❖ Mrs. Meena Sonagara, senior officer of the Rajasthan Accounting services, has taken over the charge of Comptroller, RAJUVAS, Bikaner on 5<sup>th</sup> March, 2019.

## VI. Celebrations

### World Health Day

World Health Day was celebrated by NSS unit of the CVAS, Navania on 7 April, 2018. NSS volunteers



performed voluntary activity camp at Govt. School of Ranchhorpura village. The NSS volunteers together collected money voluntarily and purchased kits containing pair of sleepers, pencil, eraser, and sharpener. These kits were distributed to needy students

## 127 birth anniversary of Dr. B.R. Ambedkar

The 127 birth anniversary of Bharat Ratan Dr. B.R. Ambedkar was celebrated in CVAS, Navania. On this occasion, Dean Prof. C.S Vaishnava, expressed his views and motivated the mass to adopt the principle of equality in their life.

## Eleventh Foundation Day of CVAS Navania

Eleventh Foundation Day of the college was celebrated on 15.04.2018. On this occasion, technical session was organized in the morning in which the faculty members delivered lectures to UG students. Drawing, Debate and Extempore competitions were organized for students and winners were given prizes.

## World Veterinary Day

World Veterinary Day was celebrated on 28<sup>th</sup> April, 2018 on the theme "The role of the veterinary profession in sustainable development to improve livelihood, food security and safety" in all constituted college of RAJUVAS i.e. CVAS, Bikaner, CVAS Navania, PGI-VER, Jaipur. On this day various competition like Quiz competition, speech, Poster making and Elocution, slogan writing and Rangoli were organized and winner students were given prizes.

## World environment day

World environment day was celebrated on 05th June 2018. During the day, various activities i.e. poster making, plantation, cleanliness including dumping of wastes properly in and around the college campus were organized.

## International Day of Yoga

International Day of Yoga was observed in the CVAS, Navania on 21th June, 2018 in which along with faculty members and students of college, 50 NSS volunteers were participated. The staff (both teaching and non-teaching) and students actively participated in various activities during the programme viz. warm-up exercise, run for yoga, yoga practice, and projection of educational film and display of promotional

literature on yoga. In the end of programme, fennel drink, a healthy drink was served to all the participants from the Dept. of Livestock Products & Technology.

## World Zoonotic Day

World Zoonotic day was celebrated on 6 July, 2018 in all constituent college of RAJUVAS i.e. CVAS, Bikaner, CVAS Navania, PGI-VER, Jaipur. On this day a "Rabies vaccination and awareness camp" was organized in collaboration with Canine Welfare Society, Bikaner. In CVAS, Bikaner, 63 dogs were vaccinated against Rabies. Pamphlets were distributed among the dog owners to create awareness about Rabies. In PGI-VER, Jaipur, more than 40 dogs, cats and other animals were examined and vaccinated in this camp.

## Independence Day

72 Independence Day was celebrated with full fervour of patriotism in the main campus of RAJUVAS at Bikaner. Hon'ble Vice-Chancellor Prof. Vishnu Sharma hoisted the tri colour. A short cultural programme was presented by the students and faculty members. Total 31 staff members were felicitated on this occasion for their outstanding contribution in the field of teaching, research and extension. Meritorious students were also felicitated with a certificate. A plantation drive was held in collaboration with Rajasthan Patrika under their "Hariyalo Rajasthan" programme. Dean of the other constituent college of RAJUVAS hoisted the national flag and paid homage to the freedom fighters.

## Sadbhavana Diwas

Birth Anniversary of former Prime Minister Late Shri Rajiv Gandhi was celebrated as "Sadbhavana Diwas" on 20<sup>th</sup> August, 2018 at all the institutes of RAJUVAS i.e. CVAS, Bikaner, CVAS, Navania (Udaipur) and PGI-VER, Jaipur. All teaching, non-teaching staff and students took Sadbhavana oath on this occasion.

## Swachhta Hi Sewa Pakhwada

Swachhata Pakhwada was organized at RAJUVAS, Bikaner under Swachh Bharat Mission on 15 September, 2018. Hon'ble Vice-Chancellor Prof. Vishnu Sharma participated in cleanliness drive held at TVCC, CVAS, Bikaner. Various activities like awareness rally, drawing competition, quiz, elocution





and essay competition for students were organized. Similarly Swachhata Pakhwada was also celebrated in CVAS, Navania (Udaipur) and PGI-VER, Jaipur. A cleanliness drive was organized on this occasion.

## World Rabies Day

Rabies vaccination and awareness camp was organized on World Rabies Day i.e. 28<sup>th</sup> September 2018 by CVAS, Bikaner in collaboration with Canine Welfare Society, Bikaner. In this camp, 73 dogs were vaccinated against rabies.

## Prakram Parv

Anniversary of Surgical Strike Day was celebrated at all the institutes of RAJUVAS i.e. CVAS, Bikaner, CVAS, Navania (Udaipur) and PGI-VER, Jaipur on 29<sup>th</sup> September 2018. Retd. Col. O.S. Bhati and Retd. M.S. Shekhawat were Chief Guests and they motivated the students and NCC cadets for joining the Indian Army. A special parade was held on this occasion along with others horse riders and cadets. In PGI-VER, Jaipur the students depicted gallantry and courage of the soldiers through paintings, posters, slogans, etc.

## 150 Birth Anniversary of Mahatma Gandhi

Birth Anniversary of Mahatma Gandhi was celebrated at all the institutes of RAJUVAS i.e. CVAS, Bikaner, CVAS, Navania (Udaipur) and PGI-VER, Jaipur. On this occasion a lecture was given by Vice-Chancellor Prof. Vishnu Sharma on the topic of Mahatma Gandhi's policies and philosophy and appealed everyone in his address to incorporate Gandhiji's thoughts in their life and different programmes like essay and extempore competitions were held for students on relevant to gram self employment in present scenario and thoughts of Mahatma Gandhi and modern India.

## Mahila Kisan Diwas at KVK, Nohar

Krishi Vigyan Kendra, Nohar, Hanumangarh celebrated Mahila Kisan Diwas on 15<sup>th</sup> October, 2018 at Nohar. Fifty eight farm women were actively participated in the programme. KVK also organized goshthi cum exhibition for farm women to make them aware about different technology of KVK and role of women in Agriculture.

## National Unity Day

On the occasion of 143 Birth Anniversary of Sardar Vallabh Bhai Patel, Rastriya Ekta Diwas was celebrated

on 31 October, 2018 in all the institutes of RAJUVAS i.e. CVAS, Bikaner, CVAS, Navania (Udaipur) and PGI-VER, Jaipur. Run for Unity was organized in which students, NSS volunteers, NCC cadets and faculty members in large numbers participated in the run. Dean enlightened about the contribution of Sardar Vallabh Bhai Patel towards making India a united country after independence

## Agricultural Education Day

Agricultural Education Day was celebrated at all the institutes of RAJUVAS i.e. CVAS, Bikaner, CVAS, Navania (Udaipur) and PGI-VER, Jaipur on 3 December, 2018 on the birth anniversary of first President of India Dr. Rajendra Prasad. Essay writing and extempore competitions were held for the students on this occasion. Dean of CVAS, Navania delivered his speech on importance of agriculture and livestock rearing in increasing economy of country.

## World Soil Day

World Soil Day was celebrated on 5 December, 2018 at CVAS, Navania (Udaipur) and PGI-VER, Jaipur. Dean of PGI-VER, Jaipur told that every citizen has an important role in the prevention of soil pollution and it is our duty to adopt the various methods of preventing soil pollution. A poster competition on prevention of soil pollution was also organized for the students on this occasion.

## National Voters Day

National Voters Day was celebrated on 25 January and oath for voting was taken in the presence of Vice-Chancellor Prof. Vishnu Sharma by all the students and staff members.

## Republic Day

70 Republic Day was celebrated at all the institutes of RAJUVAS i.e. CVAS, Bikaner, CVAS, Navania (Udaipur) and PGI-VER, Jaipur with great fervor and gaiety on 26 January. Vice Chancellor Prof. Vishnu Sharma hoisted the national flag at University Campus, Bikaner. The whole campus came alive with spirit of patriotism. Students presented a colorful cultural programme. University awarded the meritorious students for their merit and commendable work and contribution in the progress of the University.



## Annual Day at CVAS, Navania (Udaipur)

Annual day was celebrated at CVAS, Navania (Udaipur). Vice Chancellor, Prof. Vishnu Sharma acted as Chief Guest and Prof. Sanjita Sharma, Dean, PGIVER, Jaipur was Special Guest of the function. Vice Chancellor Prof. Vishnu Sharma in his speech congratulated the students, faculty and nonteaching staff for the achievement of the college for inclusion in the first Schedule of IVC Act 1984.

## VII. Dignitaries Visits

### DDG, Visited the NCC Unit at CVAS Navania

DDG, NCC Air Commodore T.K. Sinha visited the NCC unit of college on 27 April, 2018. He inaugurated newly built NCC mess and witnessed of drill demonstration presented by SD and JD cadets. Thereafter, he visited the college campus and other units along with Dean.

### Annual Inspection by Col. Sudhanshu Sharma

Annual inspection of 1 Raj R & V SQN was done by NCC Group Commander Col. Sudhanshu Sharma on 08.05.2018. He appraised the activities done by the Unit and motivated the Cadets to contribute in the development of the Nation.

### UGC Inspection for Accreditation under 12-B

A four members UGC team included Prof. N.C. Patel, Vice-Chancellor, Anand Agriculture University, Gujarat, Smt. Mamta R. Agarwal, Member Secretary, UGC, Prof. P.D. Juyal, Vice-Chancellor, Nanaji Deshmukh Veterinary Science University, Jabalpur (MP), Prof. G.K. Singh, Dean, Veterinary College, GBPUAT, Pantnagar (UK) inspected the RAJUVAS on 3-4 August for evaluation of ongoing teaching, research, extension activities and status of infrastructure, human resource, animal farms and other units according to accreditation procedure and norms of UGC for accreditation under 12-B.

### VCI Inspection at CVAS, Navania, Udaipur

A three member committee including Prof. P.K. Shukla, Former Joint Commissioner (Poultry), Govt of India and Registrar & Dean PGS, DUVASU Mathura, Prof. Vijaya Rani, Department of Biotechnology, TANUVAS, Chennai and Prof. R.V. Gaikwad, Department of Veterinary Medicine, Bombay Veterinary College, Parel, Mumbai inspected the

college on 17-19 September for inclusion in Schedule-I of IVC Act 1984.

### Visit of Prof. N.S. Rathore, DDG (Education), ICAR

DDG (Education), ICAR, New Delhi Prof. N.S. Rathore visited RAJUVAS, Bikaner on 17 September, 2018. Prof. Rathore addressed faculty members of University and said that RAJUVAS is prestigious University with a fast pace in the country. He emphasized on different funding schemes of ICAR including World Bank funding project, Green initiative and Institutional Development Plan.

### Visit of FAO's Livestock Officer at PGI-VER, Jaipur

Dr. Mohammed Shamsuddin, Livestock Officer, Food and Agriculture Organization of United Nations visited PGIVER, Jaipur on 8<sup>th</sup> February, 2019. He visited different departments, Veterinary Clinical Complex and Livestock Farm Complex of the institute and got acquainted with the available facilities.

### Bangladesh Delegation Visited RAJUVAS

Eight members of Bangladesh Fisheries and Livestock Ministry, Dhaka visited the RAJUVAS on 27<sup>th</sup> February, 2019.

## VIII. Staff Accomplishments

### Prof. Sanjita Sharma becomes the Member of BSMA Committee

Prof. Sanjita Sharma, Dean & Head, Department of Livestock Production Management, PGI-VER, Jaipur has been nominated as member of Broad Subject Matter Area Committee for LPT & PM by ADG (EQR) ICAR, New Delhi.

### Dr. Y.P. Singh Nominated as Member of VHPSISC

Dr. Y.P. Singh, Assistant Professor, Department of Veterinary Surgery and Radiology, PGI-VER, Jaipur have been nominated as Alternate Member of Veterinary Hospital Planning and Surgical Instruments Sectional Committee of Medical Equipment Hospital Planning Department of Bureau of Indian Standard, New Delhi.

### First Prize to Prof. Sheela Choudhary

Prof. Sheela Choudhary, Head, Department of Animal Nutrition, PGI-VER, Jaipur got first prize in



poster presentation in Asian Regional Conference on Goats (ARCG-2018) at Amity University, Jaipur held from 22-26 October, 2018.

## **Young Scientist Award to Dr. Neeraj Sharma**

Dr. Neeraj Kumar Sharma, Assistant Professor, Department of Veterinary and Animal Husbandry Extension Education, CVAS, Bikaner awarded with Young Scientist Award-2018 during 9th National Extension Education Congress on Climate smart agricultural technologies: innovations and interventions at College of Agricultural and Post Harvest Engineering Technology, Ranipool, Sikkim held from 15-17 November, 2018.

## **IVRA Bernstein Travel Fellowship to Dr. Sakar Palecha**

Dr. Sakar Palecha, Assistant Professor, Department of Veterinary Surgery and Radiology, CVAS, Bikaner was awarded Bernstein Travel Fellowship 2018 by the International Veterinary Radiology Association (IVRA) for poster presentation at ACVR/IVRA joint conference organized from 14-19 October, 2018 at Dallas Fort Worth, Texas, USA.

## **Gold Medal to Surgery Team of CVAS, Bikaner**

Surgery team of CVAS, Bikaner got Gold Medal for its paper clinical evaluation of electroretinography (ERG) for diverse ophthalmic affections in dogs during 42<sup>nd</sup> Annual Congress of Indian Society for Veterinary Surgery (ISVS) and National Symposium on advances in diagnostic imaging and surgical techniques in farm and companion animals held at Navsari (Gujarat) from 22-24 November, 2018.

## **Certificate of Excellence to Dr. Sandhya Morwal**

Dr. Sandhya Morwal, Assistant Professor, Department of Veterinary Medicine, CVAS, Navania (Udaipur) awarded certificate of excellence in veterinary and research as Bharat Vikas Award during National Seminar on Intellectuals' Social Responsibility organized by Institute of Self Reliance at Bhubneshwar, Odisha on 1st December, 2018.

## **Best Scientist Award to Dr. Vikas Galav**

Dr. Vikas Galav, Assistant Professor, Department of Veterinary Pathology, PGI-VER, Jaipur was

awarded with Best Oral Presentation Award for research paper entitled Histo-pathological and bacteriological invasion of lung inflammation in sheep and Best Scientist Award for outstanding contribution in field of Veterinary Pathology by Society for Science and Nature, Lucknow in International Seminar on Recent Trends and Experimental Approaches in Science, Technology, Nature and Management held at FDDI, Jodhpur from 23-24 December, 2018.

## **Prof. Goswami Honoured in National Seminar**

Prof. S.C. Goswami, DSW, RAJUVAS, Bikaner awarded for his efforts to strengthen rural youth and livestock production during National Conference on Smart Agriculture and Food Security (SAFS-2019) at the School of Agricultural Sciences, Jaipur National University, Jaipur jointly under the auspices of Ministry of Agriculture, Govt. of India and NABARD.

## **Dr. Berwal Awarded with Bharat Excellence Award**

Dr. Raj Kumar Berwal, Assistant Professor, VUTRC, Suratgarh received Bharat Excellence Award and Gold Medal and also Leading Educationist of India Award and Gold Medal for the year, 2019 for outstanding contribution in his field presented by The Friendship Form during National Seminar on Global brotherhood and Peace at New Delhi on 24th February, 2019.

## **Prof. Dhuria Honoured with Fellow of ISACP**

Prof. R.K. Dhuria, Dean, CVAS, Navania (Udaipur) was awarded with prestigious award of Fellow of Indian Society for Advancement of Canine Practice. This fellow award of Indian Society for Advancement of Canine Practice (FISACP) was conferred during 16th Annual Convention of ISACP and National Symposium on Exploring New Horizons in Canine Practice and Welfare organized at Khalsa College of Veterinary and Animal Sciences, Amritsar, Punjab from 26-28 February, 2019.

## **IX. Student's Accomplishments**

- ❖ Dr. Y.R. Ambedkar, Ph.D student, Department of Livestock Product Technology, PGI-VER, Jaipur got first prize in poster presentation in Asian Regional Conference on Goats (ARCG-2018) at Amity University, Jaipur from 22-26 October, 2018.





❖ Dr. Amit Kumar Lavania, M.V.Sc. student, Department of Animal Nutrition, PGI-VER, Jaipur got second prize in poster presentation in Asian Regional Conference on Goats (ARCG-2018) at Amity University, Jaipur from 22-26 October, 2018.

## X. Trainings Organized

### Training by CDMTA

Centre for Disaster Management Technology for Animals, Bikaner organized 14 training, out of these 4 on-campus, 8 off-campus and 2 (10 days) training for SDRF people were organized. A total of 473 livestock owners and unemployed youth and SDRF people were benefited.

### Training of Dairy Managers by DEE

A three day's training programme was organized in collaboration with Department of Gopalan, Govt. of Rajasthan and Directorate of Extension Education for dairy managers/moderators of Bikaner division. Total 36 dairy managers/moderators/livestock owners participated and were benefitted.

### Training on Wildlife Management and Health

Training on wild life rescue was organized by Centre of Studies on Wildlife Management and Health, RAJUVAS, Bikaner and CVAS, Navania (Udaipur) from 19-21 December, 2018. A contingent of 25 forest guards and foresters along with the students participated in this workshop.

### Orientation Course of Assistant Professors

A 21 days orientation trainings programme for newly selected Assistant Professors of the University was initiated at CVAS, Bikaner. Total 33 Assistant Professors attended this orientation course.

### Kaushal Vikas and Entrepreneurship Trainings

Two long durations training programme of department of Kaushal Vikas and Entrepreneurship, Government of India was started at RAJUVAS on 15th February, 2019. Training programme on "Artificial Insemination Technique" was of 50 days duration and "Small Scale Poultry Production" was of 30 days duration. Total 40 participants were participated in both trainings.

### Training on Animal Disease Diagnosis

Two days training programme on Animal Disease Diagnosis, their Prevention and Control was organized

by Department of Veterinary Microbiology, CVAS, Navania, (Udaipur). Total 15 field workers from PRADAN NGO participated and aware about animal disease diagnosis, prevention and their control.

### Training under Van Dhan Yojna

Two days training programme on Animal Husbandry & Dairy Development under Van Dhan Yojna budgetary scheme of Rajasthan Govt. was organized at CVAS, Navania (Udaipur) in collaboration with Centre for Studies on Wildlife Management and Health, RAJUVAS, Bikaner and Forest Department, Udaipur. Twenty-one farmers from Leopard Conserve Reserve (Jawai) participated in the training.

### Veterinary Officers Training on Goat Management

One day training for Veterinary Officers on Goat Rearing Management was organized at CVAS, Navania (Udaipur) under NMPS- Genetic importance of Sirohi and nondescript goat project. Twenty one Veterinary Officers from Ajmer and Chittaurgarh district participated in the training.

### Training on Scientific Sheep Rearing

A one-day training programme of farmers of TSP area on "Scientific Sheep Rearing System" was organised at CVAS, Navania (Udaipur) under MSSP Sonadi Unit. Total 36 farmers of Lasadia block attended the training. Khadi Blankets and Medicine kits were distributed to the farmers under Direct Benefit Scheme of TSP.

### Training on Bio-Medical Waste

Animal Bio Medical Waste Disposal Technology Centre organized two training on Proper management and safe disposal of Animal Bio- medical Waste. Total 86 nursing staff, technical assistants and Livestock Assistants (LSA) were participated.

### VUTRC, Dungarpur

VUTRC, Dungarpur organized 50 off-campus trainings for livestock farmers. Total 1723 livestock farmers participated and were benefitted.

### VUTRC, Kumher

VUTRC, Kumher (Bharatpur) organized 75 off-campus, 5 on-campus trainings, 1 pashupalak gosthi and 1 animal health camp. Total 1338 livestock farmers participated and were benefitted.





## VUTRC, Churu

VUTRC, Churu organized 58 off-campus and 3 on-campus trainings for livestock farmers. Total 2104 livestock farmers participated and were benefited.

## VUTRC, Ajmer

VUTRC, Ajmer organized 47 off-campus trainings and vichar gosti for livestock farmers. Total 1453 livestock farmers were benefitted. Under transfer of technology, twelve azola units and twelve vermi compost units were established.

## VUTRC, Dholpur

VUTRC, Dholpur organized 65 off-campus and seven on-campus trainings and two vichar gosthi for livestock farmers. Total 3137 livestock farmers were benefited.

## VUTRC, Tonk

VUTRC, Tonk organized 64 off-campus trainings for livestock farmers. Total 1868 livestock farmers participated and were benefited.

## VUTRC, Lunkaransar

VUTRC, Lunkaransar organized 50 off-campus, three on-campus and one sponsored training (sponsored by ATMA, Bikaner). Total 1925 livestock farmers participated and were benefited.

## VUTRC, Kota

VUTRC, Kota organized 75 off-campus trainings for livestock farmers. Total 2284 livestock farmers were benefitted.

## VUTRC, Sirohi

VUTRC, Sirohi organized 9 on-campus and 65 off-campus trainings for livestock farmers. Total 2322 livestock farmers participated and were benefited.

## VUTRC Bakalia (Nagaur)

VUTRC, Bakalia organized 61 off-campus, 6 on-campus trainings, 7 Vichar Ghosthi and one exhibition. Total 2152 livestock farmers were benefitted.

## VUTRC, Bojunda (Chittorgarh)

VUTRC, Bojunda organized 56 off-campus, 20 on-campus trainings, two vichar goshti and three animal health camps. Total 2433 livestock farmers participated and were benefited.

## VUTRC, Jodhpur

VUTRC, Jodhpur organized 56 off-campus trainings and benefitted 1723 livestock farmers.

## VUTRC, Suratgarh

VUTRC, Suratgarh organized 48 off-campus and 8 on-campus trainings. Total 1880 livestock farmers were benefited.

## KVK, Nohar

Krishi Vigyan Kendra, Nohar, organized 28 training programmes, 7 Kisan gosthies and 6 Field day on Kharif crops. Total 1515 farmers were benefitted.

## XI. Vice-Chancellor's Visits

### Patna: Bihar Animal Science University

Vice-Chancellor Prof. Vishnu Sharma attended Foundation Day of Bihar Animal Science University and National Seminar on Challenges in higher education in Animal Sciences at Patna on 29<sup>th</sup> August, 2018.

### Avikanagar: CSWRI

Vice-Chancellor Prof. Vishnu Sharma visited CSWRI, Avikanagar to attend National Sheep and Wool Mela on 29<sup>th</sup> September, 2018.

### Jaipur: AMITY University

Vice-Chancellor Prof. Vishnu Sharma attended Asian Regional Conference on Goats (ARCG-2018) as Guest of Honour organized by Amity University, Jaipur from 22<sup>nd</sup> October, 2018.

### Tokyo, Japan: OIE Workshop

Prof. Vishnu Sharma, Vice-Chancellor, RAJUVAS attended 2<sup>nd</sup> Regional Workshop for Veterinary Education Establishments (VEEs) and Veterinary Statutory Bodies (VSBs) at Tokyo, Japan during 19-20 November, 2018. This workshop was organized by World Organization for Animal Health (OIE). Vice-Chancellor Prof. Sharma represented the Indian Government as nominee of four member delegation. Vice-Chancellor Prof. Sharma had some fruitful exchanges with several eminent researchers, scientists, CEO, Deans, veterinarians and research scholars of different countries about global challenges and opportunities in animal and veterinary research.

### New Delhi: IAUA Golden Jubilee International Conference

Prof. Vishnu Sharma, Vice-Chancellor, RAJUVAS, Bikaner attended IAUA Golden Jubilee International Conference organized by Indian Council



of Agricultural Research, New Delhi at NASC complex, New Delhi from 23-25 November, 2018.

## New Delhi: ICAR Interactive Workshop

Vice-Chancellor Prof. Vishnu Sharma attended Interactive Workshop of Vice-Chancellors organized by Indian Council of Agricultural Research, New Delhi on 3<sup>rd</sup> December, 2018.

## XII. Moments of Pride

### CLFMA Award

In recognition of overall contribution in development of Veterinary Science in general and Animal Nutrition in particular in Rajasthan State as well as country, the Compound Livestock Feed Manufactures Association conferred CLFMA award to Prof. Vishnu Sharma, Vice-Chancellor, RAJUVAS, Bikaner. This award was given during 60th National Symposium 2018 on GenNXT wave: People, Technologies and Innovation for Indian Livestock Sector organized at Goa from 7-8 September, 2018.

### Vice-Chancellor Prof. Vishnu Sharma Honoured with Fellow of NAVS

Prof. Vishnu Sharma, Vice-Chancellor, RAJUVAS, Bikaner was awarded with prestigious fellow award of National Academy of Veterinary Science during 17th Convocation of National Academy of Veterinary Science cum scientific seminar on livestock sector towards one health, food security and safety organized by Orissa University of Agriculture and Technology, Bhubaneswar (Orissa) on 19-20 December-2018.

### Prof. Vishnu Sharma Took Over Additional Charge of VC of SKRAU, Bikaner

The Hon'ble Governor of Rajasthan Sh. Kalyan Singh has given additional charge as Vice-Chancellor of SKRAU, Bikaner to Prof. Vishnu Sharma, Vice-Chancellor, RAJUVAS, Bikaner. Prof. Vishnu Sharma took over the additional charge of VC, SKRAU after completion of tenure of Prof. B.R. Chhipa on 19th December, 2018. All the faculty members, non-teaching staff and students of the RAJUVAS and SKRAU congratulated for this achievement of Vice-Chancellor Prof. Vishnu Sharma.

### RAJUVAS Under UGC 12-B

RAJUVAS, Bikaner has been recognized under UGC 12-B. Vice-Chancellor Prof. Vishnu Sharma said that

this is unique achievement & we get financial support & grant from UGC.

### Inclusion of CVAS, Navania (Udaipur) in First Schedule of VCI

CVAS, Navania (Udaipur) included in Ist schedule of VCI on 8th march 2019. Vice-Chancellor Prof. Vishnu Sharma said that is a big achievement & Institute getting funds from central government as well as Rajasthan Government.

### Pride of Indian Expo Award

RAJUVAS has received special recognition category award in 106<sup>th</sup> Indian Science Congress (ISC) "Pride of Indian Expo" from 3-7 January 2019 on the lovely professional University, Phagwara, Punjab.

### First Prize in Exhibit Stall

VUTRC Suratgarh was awarded with First Prize in exhibit stall in Pre-Rabi Meet organized by KVK Sangaria on 20<sup>th</sup> December 2018.

## XIII. Farmers Visits

### Farmers visits at CVAS, Navania

A total number of 642 livestock owners including women from different villages located in tribal or non-tribal areas of Udaipur, Chittorgarh, Pratapgarh and Bhilwara districts visited the LRS and VCC of CVAS, Navania.

### Farmers visit at CVAS, Bikaner

- ❖ Fifty female farmers of Anoopgarh Tehsil (Sri Ganganagar) visited RAJUVAS under ATMA Project through Assistant Director, Agriculture Extension, Anoopgarh. They visited museum, live animal biodiversity model, poultry section and learned about various technologies of animal science.
- ❖ Fifty livestock owners from Suratgarh, Sri-ganganagar also visited different units of RAJUVAS including poultry, duck, rabbit farm, technology museum, cattle farm, clinic, etc.

### Farmers' visits at CVAS, Navania (Udaipur)

Total 1694 farmer including women from different villages located in tribal or non-tribal areas of Udaipur, Pratapgarh, Bhilwara, Banswara and Jaipur districts visited LRS and VCC of CVAS, Navania (Udaipur). The visit was organized by CVAS, Navania in collaboration with Governmental and Non-governmental organizations working in these areas.



## XIV. Students Visits at RAJUVAS

### Home Science College, SKRAU

Seventeen students of first year of Home Science College, SKRAU, Bikaner visited the RAJUVAS under their orientation programme on 18 th July, 2018. They visited poultry, museum, live animal biodiversity model etc.

### Students from Agribusiness Management, SKRAU

Twenty four students of Agribusiness Management of SKRAU, Bikaner visited the RAJUVAS on 21 st July, 2018. They visited museum, live animal biodiversity model and learned about various technologies of animal science.

### Veterinary College Shivomoga, Karnataka

27 Final year students of Veterinary College Shivomoga, Karnataka visited CVAS, Bikaner on 15.11.2018 under their all India Educational tour. They praised the facilities available here for the research and treatment of animals.

### Students from Junagarh Agriculture University

An Educational tour of 28 final-year B.V.Sc & A.H. students Junagarh Agriculture University visited the CVAS, Navania Campus on 11th January 2019.

## XV. Students Activities

### NCC camp

A contingent of 41 NCC cadets (24 boys+17 girls) of CVAS, Navania participated in 10 days NCC camp organized from 13-22 June, at Ajmer. The cadets won the prizes in different categories viz. first in tug of war, solo dance and group song and second in solo song and extempore.

### Fresher's Day CVAS, Bikaner

Fresher's Day was organized in all the constituted college of RAJUVAS i.e. CVAS, Bikaner, CVAS, Navania, PGI-VER, Jaipur in January and February month, to welcome the newly admitted students in the B.V.Sc. & A.H. Course. The event began with the introduction of first- year students and subsequently various cultural programmes were organized.

### Educational Tour

#### CVAS Bikaner

Seventy eight students IV Yr B.V. Sc. & AH of CVAS Bikaner departed for their 10 days All India

Educational Tour on 17 th April, 2018. They visited the veterinary institutes situated at Ludhiana, Amritsar, Chandigarh, Dehradun, Pantnagar, Garhmukteshar, Izzatnagar, Mathura and Jaipur. Total 78 students of undertook the tour.

### CVAS Navania

An educational tour was conducted for fourth year B.V.Sc. & A.H. students from 01.05.18 to 10.05.18. The students visited the reputed institutions and centres of Veterinary importance in North India.

### Quiz competition

A quiz competition was organized by the Virbac Animal Health India Pvt. Ltd. amongst the Fourth and Final year students on the topic of "Treatment art of Mastitis" on 09.05.2018. Three winner students will be sent for the National Quiz competition.

### Entrepreneurship programme

Students of CVAS, Bikaner prepared broiler and milk products by their own and experienced the Entrepreneurship under their part of degree Entrepreneurship programme.

### Placement Seminar at CVAS, Navania (Udaipur)

Placement Cell of CVAS, Navania (Udaipur) organized a seminar on the topic of Scope and Career Opportunities of Veterinarians in Private Sector for internee students on 10th September, 2018.

### Quiz Competition at CVAS, Bikaner

A quiz competition was organized by Virbac Animal Health India Pvt. Ltd. amongst the fourth and final year students on the topic of "Diarrhoea in Calves" on 26th July 2018. Three winner students Sushmita Choudhary, Lokendra Jhang and Gunjan Katara were given prizes on 6th September 2018.

### Motivational Seminar at CVAS, Bikaner

#### Motivational seminar for student

A motivational seminar was held on 7th July, 2018 for the graduating students to boost them for the service in Selection Board examinations and how they can prepare them for becoming army officer by Commanding Officer, 1 Raj R&V NCC Sqn, Bikaner. He explained the various avenues in army for the NCC cadets having 'C' certificate. Lt.

### Orientation Programme

An orientation programme was organized for the newly admitted B.V.Sc. & A.H. student's in all the





constituent college i.e. CVAS, Bikaner, CVAS, Navania, PGI-VER, Jaipur. Dean of the constituent colleges enlightened them about the infrastructural and functional activities of the institute. Academic coordinator informed them about the course curriculum, classes, attendance, examination etc.

## Students Union Election

Students elections for the various portfolios of Veterinary Students Association of all the constituent college of RAJUVAS i.e. CVAS, Bikaner, CVAS, Navania, PGI-VER, Jaipur and Students Union, RAJUVAS, Bikaner were held on 31st August, 2018. Dinesh Kumar Poonia was elected as President and Rajendra Prasad as Vice President of RAJUVAS, central students union.

## Sports and Cultural Week

The Sports and Cultural Week was organized by all the constituted college of RAJUVAS i.e. CVAS, Bikaner, CVAS, Navania, PGI-VER, Jaipur. Different sports and cultural activities were organized for the students. Total nine teams participated during interclass tournament. The basketball, volleyball, tennis, badminton, table-tennis, chess, cricket, kabaddi and athletics for men and women were organized during the sports week. Prizes and certificates were distributed to winner students by Dean.

## Live Webcast of Pariksha Pe Charcha

Faculty members and students actively participated in the live webcast of the Hon'ble Prime Minister's interaction with the students "Pariksha Pe Charcha on 29th January, 2019 at PGI-VER, Jaipur. While addressing the gathering Vice-Chancellor Prof. Vishnu Sharma encouraged

everyone to incorporate various practices in their life suggested by Hon'ble Prime Minister for achieving their goals.

## NSS Special Camp

Seven days at NSS special camp was organized by the NSS units of RAJUVAS i.e. CVAS, Bikaner, CVAS, Navania (Udaipur) and PGIVER, Jaipur in last week of March, 2019. The students carried out various awareness programmes on cleanliness, dowry, drug addiction, child marriage, education, vaccination in animals, advanced animal husbandry practices etc.

## All India Veterinary Colleges Badminton and TT Tournament

A contingent of 10 boys and 10 girls of CVAS, Bikaner participated in the All India Veterinary Colleges Badminton, Table tennis tournament and All India Professional Quiz competition organized by CVAS, (GBPUAT), Pantnagar from 14-16 March, 2019.

## AGRIUNISPORTS 2018-19

Forty- five students of RAJUVAS participated in 19th All India Inter Agricultural Universities Games & Sports Meet (AGRIUNISPORTS-2018-19) organized by the Punjab Agricultural University (PAU), Ludhiana from 2-6 January, 2019.

## AGRIUNIFEST

The team of 23 students of University participated in the 19th All India Inter Agricultural University Youth Festival (AGRIUNIFEST-2018-19) sponsored by ICAR, New Delhi, organized by Sardar Krushinagar Dantiwada Agricultural University, Dantiwada (Gujrat) from 3-7 February, 2019.

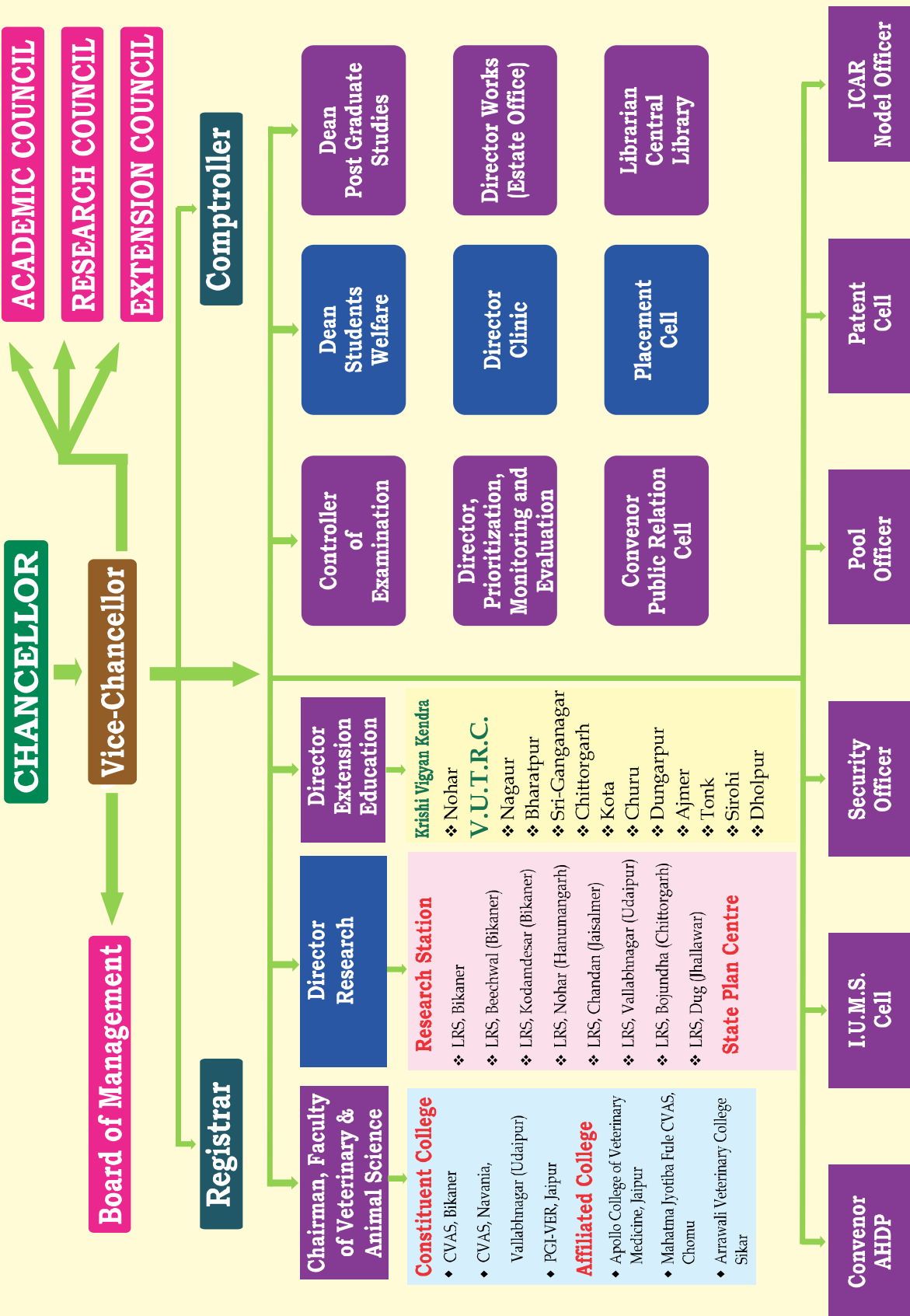




राष्ट्रिय पशु चिकित्सा विश्वविद्यालय

# Annual Report 2018-19

## University Organogram





## 1. Introduction

The animal husbandry sector in India in general and Rajasthan in specific harboring a fabulous livestock wealth, having very significant in providing subsidiary source of income to the large number of small farmers, marginal farmers, BPL familiar and agricultural labourers. Distribution of livestock wealth in more equalitarian compared to land. Marginal farmers contribute core livestock production centre. Over 50 percent of all species are owned by marginal farmers and livestock sector is extremely livelihood intensive as well as major source of substance. In Rajasthan animal husbandry is not merely a subsidiary to agriculture but it is a major economic activity specially in arid and semiarid regions, thus providing much needed insurance against prominently occurring scarcity conditions. This sector among all agricultural sectors has the highest potential for rural self employment with the lowest possible investment and risk. Development of livestock sector therefore, is critical to rural prosperity.

### 1.1 Initiation of Rajasthan University of Veterinary and Animal Sciences

The State Government took major initiative in education, research and extension in the field of Veterinary and Animal Science by establishing a separate Rajasthan University of Veterinary and Animal Sciences, Bikaner was 13th may, 2010, bifurcating the Veterinary and Animal Science faculty from Swami Keshwanand Rajasthan Agricultural University, Bikaner and Maharana Pratap University of Agriculture and Technology, Udaipur. The Headquarter of Rajasthan University of Veterinary and Animal Sciences is located at the premises of College of Veterinary and Animal Science building at Bikaner.

### 1.2 Role and Mandate of the University

The RAJUVAS is envisaged to accomplish the following roles under the mandate of the University:

- ❖ To plan, initiate, guide, co-ordinate and monitor the research in the field of Veterinary and Animal Science.
- ❖ To maintain liaison with State and Central Government, ICAR, DST and other National and

International Funding agencies for obtaining the financial support for various veterinary and animal science research programmes.

- ❖ To monitor animal health programme through disease investigation and surveillance.
- ❖ To impart quality professional education, to develop technologies suitable for promoting animal production in the state of Rajasthan, to transfer the technologies to field functionaries and to develop a center of higher learning, research and extension in the field of veterinary and animal science.

### 1.3 Objectives of the University

The RAJUVAS has been established to achieve following objectives:

- ❖ Making provisions for imparting education towards development of quality human resource, in different branches of specialization of veterinary and animal sciences.
- ❖ Furthering the advancement of learning and conducting of research;
- ❖ Undertaking extension education.
- ❖ Promoting partnership and linkages with national and international institutions.
- ❖ Liaisoning and establishing vital linkages with the concerned line departments working in the fields of animal husbandry, fisheries and dairy development, animal technology in the State, by whatever name called, governed by the Government of Rajasthan as well as the Union Government;
- ❖ Liaison with National and International Research Institutes, specialized in the field of veterinary, animal, dairy and fishery science technologies with a view to keep abreast of the latest technology.

### 1.4 Powers and Functions of the University

As per the provisions in the act, the RAJUVAS has been entrusted following powers and functions to achieve its objectives:

- ❖ To provide instructions, training and research in veterinary and animal sciences including self finance mode.



- ❖ To provide and disseminate the findings of research and technical information through extension education programmes.
- ❖ To institute degrees, diplomas and other academic distinctions in veterinary and animal sciences.
- ❖ To institute courses of study and hold examinations for and confer degrees, diplomas and other academic distinctions on persons who have perused and qualified for a prescribed course of study or research or both in the University.
- ❖ To confer honorary degrees or other distinctions as may be prescribed by statutes.
- ❖ To provide lectures, training and instructions for field workers, livestock farmers and other persons not enrolled as regular students of the University.
- ❖ To collaborate in academic, research and extension education programmes with other universities, institutes of Indian Council of Agricultural Research and public or private research and development organizations or institutions.
- ❖ To establish, run and maintain colleges, research stations, Krishi Vigyan Kendra and any other institutions relating to veterinary and animal sciences.
- ❖ To affiliate colleges, institutions or units to the University under conditions prescribed and to withdraw affiliation from colleges, institutions or units.
- ❖ To establish and maintain laboratories, libraries, research stations and institutions and museums for teaching, research and extension education.
- ❖ To institute teaching, research and extension education posts and to appoint persons to such posts.
- ❖ To create administrative and other posts and to appoint persons to such posts.
- ❖ To institute and award fellowships, scholarships, studentships, bursaries, exhibitions, medals and prizes in accordance with the statutes. To establish and maintain hostels, to recognize hostels not maintained by the University and to withdraw recognition there from.
- ❖ To establish and maintain residential accommodation for the employees of the University.
- ❖ To fix, demand and receive such fees and other charges as may be prescribed
- ❖ To supervise and control residence, conduct and discipline of the students of the University and to make arrangements for promoting their health and welfare.
- ❖ To do all such and things, whether incidental to the powers and functions aforesaid or not, as may be necessary or desirable to further the objectives of the University.
- ❖ The University would also work
  - 1) To provide trained work force in the field of Veterinary and Animal Sciences
  - 2) To enable the professionals to identify problems of the community and carry out research work
  - 3) To enable the professionals to generate self-employment opportunities by way of field level trainings.



## 2. University Administration

His Excellency, the Governor of Rajasthan, is the Chancellor of the University, Vice Chancellor is the Academic Head and Principal Executive office of the University. The University is governed by the following Authorities.

### 1. The Board of Management

### 2. The Academic Council

### 3. The Faculties

### 4. The Board of Studies

### 5. The Research Council

### 6. The Extension Education Council

### 7. The Planning Board

### 8. The Finance Committee

Besides these the Vice-Chancellor has also constituted a core Advisory Committee, Public Relation Cell, Prioritization Monitoring and Evaluation (PME) Cell, Directorate of Clinics and University Students Placement Cell.

### 2.1 Board of Management (BOM)

The Board of Management (BOM) is constituted under Sub Section (1) of Section 11 of the Rajasthan University of Veterinary and Animal Sciences Act, 2010 dated 13th May 2010. H.E. the Governor of Rajasthan and Chancellor of Rajasthan University of Veterinary and Animal Sciences, Bikaner constituted the Board of Management on 11th Nov., 2010 in accordance to the provisions of the Act. Hon'ble Vice- Chancellor, Rajasthan University of Veterinary and Animal Sciences, Bikaner is the Ex-officio Chairperson of the BOM. The other ex-officio members of BOM are Principal Secretary Animal Husbandry, Dairy & Fisheries Department, Government of Rajasthan, Additional Principal Secretary, Finance Department Government of Rajasthan, Managing Director of Rajasthan Co-operative Dairy Federation, Director Animal Husbandry, Director of Fisheries Rajasthan, and the Registrar, Rajasthan University of Veterinary and Animal Science, Bikaner.

The nominated members of the BOM are Dr. Kamal Jaiswal, Dr. A. k. Mishra, Sh. Govind Ram MLA,

Sh. Purkharam, Sh. Ashok Modi, Smt Krishna Solanki and Dr. Anand Prakash Vyas, Dr. Ranjit Singh, Animal Husbandry and a person nominated by Veterinary Council of India.

### 2.2 Academic Council

The Academic Council is constituted as per provision of Section 15 of the Rajasthan University of Veterinary and Animal Sciences Act 13 dated 13th May, 2010. The Academic Council is a statutory body consisting of Vice-Chancellor as its Chairman and Registrar as its Member Secretary. Other members of the Council are Secretary to Government, Department of the Animal Husbandry, Dairy and Fisheries, Managing Director of Rajasthan Co-operative Dairy Federation, Director, Animal Husbandry, GOR, Director Fisheries, GOR, Chairperson, Faculty of Veterinary and Animal Science, Dean, CVAS, Bikaner and Navania, Dean, Post Graduate Studies, Dean, Students' Welfare, Director Research, Director Extension Education, and Director Clinics of Rajasthan University of Veterinary and Animal Sciences, Bikaner, ten members amongst Head of the Departments to be nominated by Vice-Chancellor and three persons having special or practical experience in different aspect of veterinary and animal science to be nominated by Vice-Chancellor.

### 2.3 Faculties

The Rajasthan University of Veterinary and Animal Sciences, Bikaner is to look after the work of teaching, research and extension in the fields of veterinary and animal science, dairying, fisheries and allied sciences in the state of Rajasthan.

At present only the Faculty of Veterinary and Animal Science is there. Dr. Rakesh Rao has been appointed as the Dean and Faculty Chairman of the Faculty of Veterinary and Animal Science from 22.01.2019 by the Vice Chancellor under Section 17 of the RAJUVAS Act.

### 2.4 Board of Studies

Under the Section 18 of the RAJUVAS Act a Board of Studies for each faculty is to be constituted by





the Dean of the respective faculty. The Board of Studies of the faculty of Veterinary and Animal Science has been constituted as: Dean of Faculty is the Chairperson of the Board and the other members are Deans of the constituent and affiliated colleges, four Principals of affiliated Animal Husbandry Diploma Institutions, all Heads of the Departments-cum-Chairperson of Committees of Courses along with conveners of the Committees of Courses of the concerned departments, one senior faculty member from each Department nominated by the Dean of Faculty and two external experts nominated by the Dean and Chairman of the Faculty and approved by the Academic Council for a term of two years. Senior most Head of the Department shall be the Member Secretary of the Board of Studies.

## 2.5 Research Council

The Research Council is constituted as per provision of Section 19 of the Rajasthan University of Veterinary and Animal Sciences Act 13 dated 13th May, 2010. The Research Council is a statutory body consisting of Vice-Chancellor as its Chairman and Director Research as its Member Secretary, Managing Director of Rajasthan Co-operative Dairy Federation, Director of Animal Husbandry, GOR, Director of Fisheries, GOR, Director of Extension Education, Deans of constituent colleges CVAS, Bikaner and CVAS, Navania, Directors of the University, all Head of the Departments of constituent colleges, all Incharges of Livestock Research Stations, all Principal Investigators of research schemes and projects and four co-opted members as members of the council. The research in University is under the control of Director of Research with its head-quarter at Bikaner.

## 2.6 Extension Education Council

The Extension Education Council (EEC) is constituted as per provision of Section 20 of the Rajasthan University of Veterinary and Animal Sciences Act 13 dated 13th May, 2010. The EEC is a statutory body consisting of Vice-Chancellor as its Chairman and Director Extension Education as its Member Secretary, Managing Director of Rajasthan Co-operative Dairy Federation, Director Animal Husbandry, GOR, all Deans of the constituent colleges,

all Directors of the University, all Heads of the Departments of constituent colleges of RAJUVAS, all Incharges of Krishi Vigyan Kendra (s) (KVKs), two eminent persons in the field of Extension Education from outside nominated by the Vice-Chancellor, two progressive livestock or fisheries farmers nominated by Vice-Chancellor and CEO, URMUL Trust, Bikaner as its members.

## 2.7 Planning Board

Under the Section 21 of the RAJUVAS Act a Planning Board of the University is to be constituted by the Vice Chancellor of the University. The Planning Board of Rajasthan University of Veterinary and Animal Sciences shall advise generally on the planning and development of the University and keep under review the standard of education and research in the University.

The Board has the right to advise the Board of Management, Academic Council, Research Council and Extension Education Council on any academic, research and extension matter. The Planning Board shall consist of the Vice-Chancellor, RAJUVAS as ex-officio Chairperson and not more than eight persons of high academic standing nominated by the Vice-Chancellor.

## 2.8 Finance Committee:

The Finance Committee is constituted as per provision of Section 22 of the Rajasthan University of Veterinary and Animal Sciences Act dated 13th May, 2010. The Finance Committee is a statutory body consisting of Vice-Chancellor as its Chairman and Comptroller as its Member Secretary. Principal Secretary to the Government Animal Husbandry, Dairying and Fisheries Department, Principal Secretary Finance Department and Dean, College of Veterinary and Animal Science, Bikaner are its members.

## 2.9 Core Advisory Committee

The Vice-Chancellor has constituted a Core Advisory Committee and nominated Registrar as its Member Secretary. The meeting of the above committee will be presided by Hon'ble Vice-Chancellor. Chairman Faculty and Dean, CVAS, Bikaner, Dean Post



Graduate Studies, Director Extension Education, Director Clinics, Director Research, Veterinary and Animal Science, Dean, CVAS, Navania, Vallabh Nagar, Dean Students' Welfare, Controller of Examinations, Director (PME) and Comptroller are the members of the committee.

## 2.10 Public Relations Cell

The Public Relations Cell was established to provide help to animal owners, farmers and general public of the state with regard to expertise as well as better diagnostic facilities available in University, advise for getting first aid to diseased animals nearest available at field functionaries of Department of Animal Husbandry, better use of animal products through extension services, organization of camps at village level. Public Relations Cell since its inception publishing newsletter quarterly named as "RAJUVAS Newsletter" including all research, extension and educational activities conducted during particular quarter. Four issues of RAJUVAS Newsletter were released during this year. This cell also published the RAJUVAS Calendar, RAJUVAS in Headlines and New Year Greetings in this year. This cell is also responsible for giving publicity to Press & Media.

## 2.11 Dean Students' Welfare

The office of the Dean Students' Welfare started working in the May 2010 with the establishment of the new University. The Dean Students' Welfare also looks after the work of Coordinator, NSS and Chairman Sports Board. Besides the routine work of Dean Students' Welfare office, the election of the Students' Union of University was conducted in September 2019. Mr. Dinesh Kumar Punia, Mr. Rajendra Prasad, Mr. Rahul Kumar Meena, Mr. Mohammed Idris Qureshi were elected as President, Vice-President, General Secretary & Joint Secretary cum Treasurer, respectively of the University Students Union. The

elections of the Students Unions of the constituent colleges were also held on the same date. To develop leadership qualities and awareness of rights of the students as well as progress of the professional spirit a Students Association is there in the College of Veterinary and Animal Science, Bikaner. The election for Veterinary Students Association of College was also held in September, 2019. Mr. Lokendra Jhang, Mr. Ram Kishore Saini, Mr. Babu Lal Jat were elected as President, Vice President, Joint Secretary and General Secretary.

## 2.12 Directorate of Prioritization, Monitoring and Evaluation (DPME):

The Directorate of Prioritization, Monitoring and Evaluation was established in the year - 2011, with the objective to plan and monitor education, research, extension activities human resource, finance etc. Directorate of Prioritization, Monitoring and Evaluation is responsible to explore and establish the priorities, monitor ongoing activities and evaluate the complete activities of the university. Its major objective was to enhance process of making funds for the University and their proper allocation, on the basis of thrust/ priority areas and consider its monitoring aspects, so as to get desired results.

## 2.13 University Student's Placement Cell

To create and enhance the career opportunities to veterinary graduates and postgraduates, University Placement Cell was established by RAJUVAS. This cell is maintaining a computerized database of veterinary graduates and postgraduates. With the help of this database, the cell sponsors list of students to the recruiting agencies for employment opportunities. A software company has developed and installed the software programme for University placement Cell and is now in operation.

## Officers of the University

Vice-Chancellor	Prof. Vishnu Sharma
Chairperson of the Faculty and Dean CVAS Bikaner	Dr. Rakesh Rao
Dean, College of Veterinary and Animal Science, Navania	Dr. R.K. Dhuria
Dean, P.G.I.V.E.R., Jaipur	Dr. Sanjita Sharma
Dean, Post Graduate Studies	Dr. Hemant Dadhich
Dean Students' Welfare	Dr. S.C. Goswami
Convener PRC	Dr. R.K. Dhuria
Director Research	Dr. R.K. Singh
Director Clinics	Dr. J.S. Mehta
Director (Extension Education)	Dr. A.P. Singh
Director (PME)	Dr. G.C. Gahlot
Director Works (Estate Office)	En. M.R. Choudhary
Controller of Examination	Dr. G. C. Gahlot
Comptroller	Sh. Arvind Bishnoi
Registrar	Dr. Hemant Dadhich
University Students Placement Cell	Dr. Sunil Maherchandani





## University Heads of the Departments

Department	Name of the Head/Incharge
Anatomy and Histology	Dr. Sanjeev Joshi
Animal Breeding & Genetics	Dr. G. C. Gahlot
Animal Nutrition	Dr. Tribhuwan Sharma
Biochemistry	Dr. Meenaxi Sareen
Physiology	Dr. Nalini Kataria
Pathology	Dr. Sunita Rani
Parasitology	Dr. B.N. Shringi
Public Health	Dr. Rakesh Rao
Microbiology	Dr. A.K. Kataria
Pharmacology & Toxicology	Dr. Nalini Kataria
Livestock Production Management	Dr. Vijay Kumar
Livestock Products Technology	Dr. Basant Bais
Animal Reproduction, Gynaecology and Obstetrics	Dr. J.S. Mehta
Surgery and Radiology	Dr. Praveen Bishnoi
Clinical Veterinary Medicine	Dr. A.P. Singh
Epidemiology and Preventive Medicine	Dr. Anju Chahar
Animal Husbandry Extension	Dr. Devi Singh
Assistant Librarian	Sh. Kuldip Chand

## Faculty Strength

The Cadre-wise Strength of Teaching & Administrative Staff of RAJUVAS is Shown in Below.

Sr. No.	Name of Post	Sanctioned	Filled	Vacant
1	Professor	54	13	41
2	Associate Professor	101	22	79
3	Assistant Professor	208	102	106
	Total	363	137	226



## VISION

Generate appropriately trained human resources, suitable technologies and transfer of knowledge and technology to stakeholders for enhancing income and livelihood.

## MISSION

- ♦ To impart quality professional education, develop technologies suitable for promoting animal production and transfer it to the state of Rajasthan.
- ♦ Augmenting livestock productivity, profitability and sustainability in Rajasthan.

## GOALS

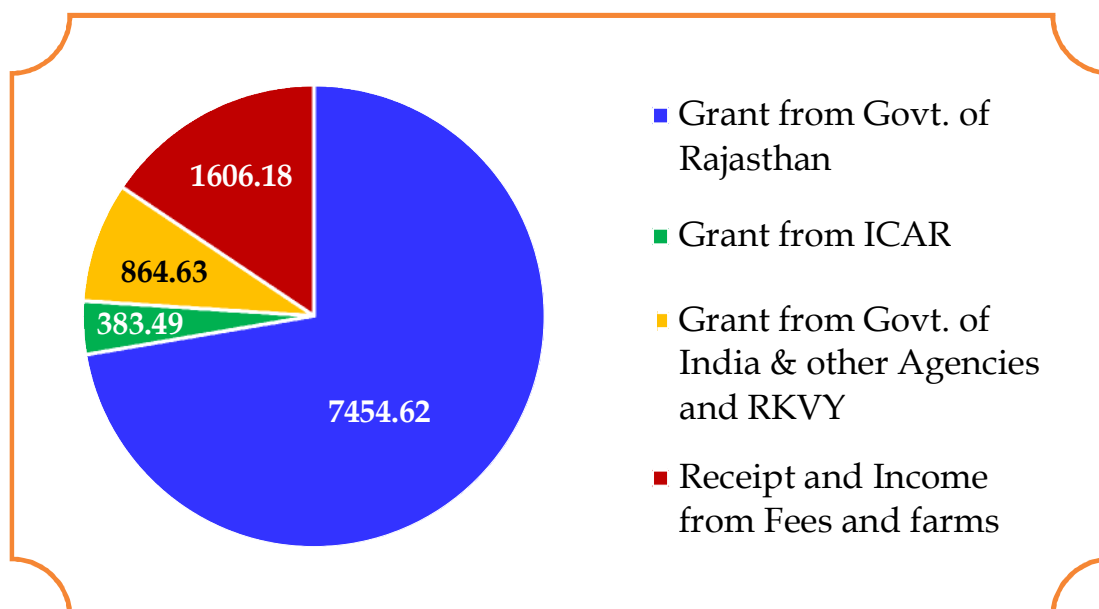
- ♦ Empowerment of the society in terms of economic upliftment, entrepreneurship development and employment generation through animal husbandry.
- ♦ Furthering the advancement of learning and conducting of research and undertake extension education.
- ♦ Promoting partnership and linkages with national and international educational institutions.

## 3. Finance and Budget

Rajasthan University of Veterinary and Animal Sciences, Bikaner had been given a financial grant of Rs. 7454.62 lacs for the financial year 2018-19 under State Plan. A grant of Rs. 864.63 lacs was obtained against the RKVY projects being run under RAJUVAS, Bikaner for the year 2018-19. The University also got an assistance of Rs. 383.49 lacs under ICAR Projects. The total budget of RAJUVAS for 2018-19 was Rs. 8702.74 Lacs. The University through its internal resources added Rs. 1606.18 Lacs during 2018-19.

### FINANCIAL RESOURCES FOR RAJASTHAN UNIVERSITY OF VETERINARY AND ANIMAL SCIENCES, BIKANER 2018-19

S.No.	Sources	Budget for 2018-19 (Lacs)
1	Grant from Govt. of Rajasthan	7454.62
2	Grant from ICAR	383.49
3	Grant from Govt. of India & other Agencies and RKVY	864.63
	<b>Total = 1+2+3</b>	<b>8702.74</b>
4	<b>Internal Resources</b>	
	Receipt and Income from Fees and farms	1606.18
	<b>Grand Total</b>	<b>10308.92</b>



## STATEMENT OF FUNDS RECEIVED AGAINST SCHEME/PROJECT OF PLAN, ICAR AND OTHER AGENCY, etc. 2018-2019 and 2019-20.

S.No.	Nature of Scheme / Project	Budget Provisions for	
		2018-19	2019-20
1	Plan Schemes	7254.62	8713.15
2	ICAR	383.49	294.00
3	RKVY and Other agencies	864.63	1111.14
	<b>Total = 1+2+3</b>	<b>8702.74</b>	<b>10118.29</b>
4	Internal Resources Receipt and Income of University	1606.18	2161.58
		<b>10308.92</b>	<b>12279.87</b>





## 4. Teaching

Teaching is under the direction of the Chairman of the faculty of Veterinary and Animal Science, Deans of the Colleges and Head of Academic Departments. Teaching is mostly by delivering lectures, use of electronic educational aids and practical in the laboratory, hospitals and livestock farms. Evaluation of undergraduate and postgraduate students is through internal and external examinations. In external evaluation system of examinations advisors, instructors, professors and advisory teams make evaluations.

The University plays an important role in the State by way of training students at the Diploma, Bachelor's, Master's and Doctoral level in various disciplines related to Veterinary Science and Animal Husbandry. Rajasthan University of Veterinary and Animal Sciences educates and train the students through its various education and training programmes to develop knowledge and leadership, to make them skilled professionals to face the challenges of global economic policy and system.

### 4.1 Courses Offered

At present following course Programmes are offered by the Rajasthan University of Veterinary and Animal Sciences, Bikaner in the Faculty of Veterinary and Animal Science.

Bachelor of Veterinary and Animal Science (B.V.Sc. & A.H.) is being offered at all the constituent and affiliated private veterinary colleges.

Master of Veterinary and Animal Science (M.V.Sc.) is being offered at College of Veterinary and Animal Science, Bikaner in the subjects of :

Veterinary Anatomy and Histology  
Veterinary Pathology  
Livestock Production and Management  
Animal Breeding and Genetics  
Veterinary Obstetrics and Gynaecology  
Veterinary Epidemiology and Preventive Medicine  
Veterinary Clinical Medicine  
Veterinary Surgery and Radiology

Veterinary Public Health  
Veterinary Parasitology  
Veterinary Biochemistry  
Veterinary Physiology  
Animal Nutrition  
Veterinary Microbiology  
Veterinary Biotechnology  
Vety. & A. H. Extension Education

Master of Science (M.Sc.) is being offered at College of Veterinary and Animal Science, Bikaner in the subject of Animal Biotechnology.

Doctoral Degree (Ph.D.) is being offered at College of Veterinary and Animal Science, Bikaner in the subjects of:

Veterinary Anatomy and Histology  
Veterinary Pathology  
Livestock Production and Management  
Animal Breeding and Genetics  
Veterinary Obstetrics and Gynaecology  
Veterinary Clinical Medicine  
Veterinary Surgery and Radiology  
Veterinary Parasitology  
Veterinary Biochemistry  
Veterinary Physiology  
Animal Nutrition  
Veterinary Microbiology

Two Years Diploma in Animal Husbandry is being offered at College of Veterinary and Animal Science, Bikaner; College of Veterinary and Animal Science, Navania-Vallabh Nagar; PGIVER, Jaipur; LRS, Chanddan; LRS, Nohar; Dug, Jhalawar; Bojunda, Chittorgarh, Rajasthan Government's Animal Husbandry Training Institutes located at Udaipur, Jodhpur, Bassi (Jaipur) and Kota and at 70 private affiliated diploma institutes.

### 4.2 Constituent and Affiliated Colleges of the University :

The University has three Constituent institutes, viz. College of Veterinary and Animal





यशोधनं नित्यं सर्वलोकमेवाकम्

## Annual Report 2018-19

Science, Bikaner, College of Veterinary and Animal Science, Navania-Vallabh Nagar, Udaipur and Post-Graduate Institute of Veterinary Education & Research, Jaipur and 3 Affiliated Colleges. Addresses and contact numbers of Deans of constituent and affiliated veterinary colleges of the university are given below:

S.No.	College Name	Year of Establishment	Telephone No.	Official Email of College
1.	College of Veterinary and Animal Science, Bikaner	1954	9414264997	cvas901@gmail.com
2.	College of Veterinary and Animal Science, Navania, Vallabh Nagar, Udaipur	2007	9414158140	cvas902@gmail.com
3.	Post Graduate Institute of Veterinary Education and Research, Jaipur	2012	9460387949	pgiverjaipur@gmail.com
4.	Aravali Vet. College, Sikar	2009	9649600419	cvas908@gmail.com
5.	Mahatma Jyotiba Fule College of Veterinary & Animal Science, Chomu	2007	9829793001	mjfcvs@gmail.com
6.	Apollo College of Veterinary Medicine, Jaipur	2003	0141-2682335	apollovetjaipur@gmail.com





## College of Veterinary and Animal Science, Bikaner

### Introduction:

Veterinary education is an integral component of land grant system of education through the ICAR-SAU network. Apart from some veterinary colleges imparting UG, PG and Ph.D. level education, institutes like IVRI and NDRI are also contributing significantly for human resource development and advancement of research in the field of veterinary and animal science. The education is uniformly being imparted as per the national syllabus prescribed by the VCI through the Minimum Standards of Veterinary Education (B.V.Sc. & A.H. degree course) Regulations, 1993 and



2008 under the Indian Veterinary Council Act, 1984. This College was the pioneer in implementing the VCI pattern in 1995 and 2009. In 2017 college implemented new VCI pattern 2016.

The state felt the need for qualified veterinarians some 50 years ago and consequently the present College was started at Bikaner, keeping in view the importance of livestock in the rural economy of the state in general and this arid region in particular. Since, then the college has provided more than 3600 graduates and postgraduates to the state and the country. Veterinarians produced by this college are globally distributed. Many of them are holding top positions within and outside the country. The college is spread in an area of around 200 acres of lush green campus with well built infrastructure providing a scenic beauty, which is unique amongst the campuses of veterinary colleges of the country. The college was amongst the leaders in creating all 17 departments as per the norms of the VCI. The level of teaching standards has been reflected by achievements of the students of this college in All India Pre-PG competitive test conducted by the ICAR. The alumni of this college are pursuing higher studies in the reputed institutes like IVRI, Izatnagar; NDRI, Karnal; GBPUAT, Pantnagar; LUVAS, Hisar; GADVASU, Ludhiana, etc. in high stake disciplines.

The college is having ample student and faculty amenities. There are 2 UG, 1 internee, 2 PG boys' hostels apart from UG and PG girl's hostel. Staff colonies of the college have 92 quarters for all cadres. Ample play grounds for football, cricket, hockey, basketball, tennis, volleyball, kabaddi, badminton and table tennis are there within the campus. Moreover, one Indoor hall for table tennis and badminton and Dr. Karani Singh Stadium are also located across the road. Heritage buildings amalgamate very well with latest ones in the campus.

The college has one of the richest clinical facilities with separate indoor, outdoor and examination-operation facilities for all the clinical departments. The annual turn over of the cases reaches 25-30 thousand per annum providing the students excellent material for clinical practice. The college is second in country to start 24 hour clinic services round the year from 9th Dec., 2012.

The College has also added animal biotechnology laboratory and a radioisotope laboratory. Computer facilities, LAN server, central instrumentation facility, animal house, Canine Welfare society, placement cell, internet facility, clinical and veterinary hospital facilities available 24x7 days a week, veterinary laboratory diagnostic facilities, NCC (R&V) squadron unit, numerous research projects with some having on-farm research component are some of the important specialities of the college. Since, last few years, the faculty of this college is contributing around 200 research papers annually. Much stress is being laid over improved practical training to the students. For this purpose, the faculty has developed practical course manuals for almost all practical courses running in UG programme. Instructional power points presentation/video capsule of out breaks attended by University have also been developed as unique feature for exposure to students. Every Department is equipped



with LCD projector to facilitate practical teaching. Departments like Vet. Anatomy, Vet. Pathology, Vet. Obstetrics & Gynecology and Vet. Clinical Medicine are having CCTV attached microscopes for collective display and explaining slide materials. All the departments are equipped with computers to help in generating teaching and examination materials. In addition to this seven smart class room systems have also been procured to strengthen the instructional hours.

With the zeal and enthusiasm, the faculty, staff and students are working hard, there is no doubt that this premier institute of the state would soon become a leading center of education and research in the noble profession of veterinary and animal science to achieve the mandate of the College to impart quality professional education, to develop technologies suitable for promoting animal production in the state of Rajasthan, to transfer the technologies to field functionaries and to develop a center of higher learning, research and extension in the field of veterinary and animal science.

## Education:

College has been involved in providing instructional training for various academic programmes, guiding masters and doctoral students in their research formulations, imparting co-curricular skills at university and national levels, providing facilities for educational tours and internship training.

## Academic Programmes:

**B.V.Sc. & A.H.:** Five and half year's duration (Four and half years course work and 1 year of internship as per the Veterinary Council of India norms). Currently the intake capacity is 80, with 12 seats from VCI and 68 seats of various categories belonging to the State quota including 28 regular seats and 40 payment seats. The admissions are made through the Rajasthan Pre Veterinary Test (RPVT) to 85% of state seats and through merit of NEET-UG examination by the VCI, New Delhi to 15% of All India quota seats.

**M.V.Sc.:** There are minimum of 3 and maximum of 6 seats in each discipline depending on the availability of the staff and facilities. Admissions to M.V.Sc. are made through a Pre-PG test on 75% of State seats and through a Central Pre-PG test conducted by the ICAR to 25% central seats. As on today, total 52 regular and 14 payment seats are available in M.V.Sc. programmes.

**Ph.D.:** Currently there are two seats in each department except in Veterinary Physiology and Veterinary Anatomy and Histology where there is only one seat and Animal Breeding & Genetics, Animal Nutrition & Veterinary Microbiology, where there are 3 seats for each discipline. Admissions to Ph.D. are made through merit following reservation on the basis of roster.

	PROGRAMMES OFFERED WITH DURATION	DURATION
PRE	<b>DIPLOMA IN ANIMAL HUSBANDRY PROGRAMME</b> (basic qualification for minor veterinary service providers as per Indian Veterinary Council Act, 1984)	2 years
UG	<b>B.V.Sc. &amp; A.H.</b>	5½ years
PG	<b>M.V.Sc.</b>	2 years
	Vety. Anatomy, Vety. Physiology, Vety. Biochemistry, Animal Nutrition, Animal Breeding & Genetics, Livestock Production & Management, Vety. Pathology, Vety. Microbiology, Vety. Parasitology, Vety. Public Health, Vety. Clinical Medicine, Veterinary Epidemiology & Preventive Medicine, Vety. Surgery & Radiology, Vety. Obst. & Gynecology, Animal Biotechnology, Livestock Product Technology Vety. & Animal Husbandry Extension Education, Vety. Pharmacology & Toxicology	
	<b>M.V.Sc. in Animal Biotechnology</b>	2 years
Doctoral	<b>Ph. D.</b>	
	Vety. Anatomy, Vety. Physiology, Animal Nutrition, Animal Breeding & Genetics, Livestock Production & Management, Vety. Pathology, Vety. Microbiology, Vety. Parasitology, Vety. Public Health, Vety. Clinical Medicine, Vety. Surgery & Radiology, Vety. Obst. & Gynecology, Animal Biotechnology, Livestock Product Technology Vety. & Animal Husbandry Extension Education, Vety. Pharmacology & Toxicology	3 years



## Animal Husbandry Diploma Programme:

Self-employment oriented programme of two years is being run from academic session 2007-08 on self-finance basis. This University will increase utilization of the existing facilities including infrastructure, hostels, clinical facilities, farms, etc. for this programme.

Short-term certificate courses: Twenty certificate courses have been identified by different disciplines ranging from 1-3 months duration. These courses shall be run on self-financed basis. Some of them are for livestock owners and school dropouts, while others are for professionals to enhance their professional competence in selected areas. Few of the courses in the former category, viz., Artificial Insemination, Poultry Farming, Dairy Farming, etc. are already running for individuals or groups as per the demand. In the later category, 1-3 months' training programmes for Biotechnology Projects to the Graduate and Post-Graduate students of other institutes are running. The success and standard of the programme has led to advance bookings from reputed institutes.

In Animal Husbandry Diploma Programme (AHDP) hospital farm practice is undertaken by students in clinics, surgery, gynecology, dairy, poultry and apex centre. The students of First year and Second year received training in Apex Centre laboratory with specific emphasis on management of laboratory, working of laboratory equipments, preparation of glassware, reagents and different types of culture media, and collection of various samples for diagnostic purposes.

## Student's Strength at CVAS, Bikaner

B.V.Sc.&A.H.					Total	M.V.Sc.		Total	Ph.D			Total	2 Years Diploma in A.H.		Total	G. Total
I	II	III	IV	V		I	II		I	II	III		I	II		
94	66	63	91	78	392	62	57	121	20	14	10	44	44	39	83	640

## Scholarships and Endowments

Name of scholarship/allowance	No. of recipient
Social Welfare Dept.	All the SC/ST students
S.J.Jindal Trust	NIL
Ward of Teacher Scholarship, Sec. Edu. Board	06
Mohan Singh Memorial Scholarship	Topper of IV Year
Educational Loan	28
<b>Department-wise scholarships awarded</b>	
University Merit Scholarships	Topper of each UG class
University Scholarship for PG/Ph.D	All M.V.Sc., Ph.D. students





यशोधनं नित्यं सर्वलोकमेवाकम्

## Annual Report 2018-19

### Detail of Conference organized during 2018-19

Name of Event	Objective	Duration	Implementing Agency	Venue	No of participant
Holistic Approach in Veterinary Medicine for Better Animal Health to Meet Challenges of One Health Mission" & 37 <sup>th</sup> Annual Convention of Indian Society for Veterinary Medicine	To provide a platform for scientific interaction and sharing of newer concept and techniques in the area of Veterinary Medicine.	3 days (1st to 3rd February, 2019)	RAJUVAS, Bikaner and Indian Society for Veterinary Medicine	Department of Clinical Veterinary Medicine, Ethics and Jurisprudence , CVAS (RAJUVAS), Bikaner	450



### Veterinary Clinical Complex Activities:

TVCC, Bikaner working 24 X 7 under Directorate of Clinic and discharging services as teaching clinical practices as well as clinical services to animals owners. Various units of TVCC are veterinary Clinical Medicine, Veterinary Gynaecology & Obstetrics and Veterinary Surgery & Radiology with both indoor and out dooe facility including Veterinary Clinical diagnostic lab, Critical Care Unit for pet animals and Veterinary ambulatory Services. Total number of Cases attended during 2018-19 was 28407. The Veterinary Gynaecology and Obstetrics department organized an infertility camp at village Kalu on 20.01.2019 where 115 cases of infertility were treated and interaction with 64 farmers was done to address their problems. In the Veterinary Clinical diagnostic laboratory total 4116 diagnostic lab tests were performed. During this period two anti-rabies vaccination camps were also organized and total numbers of vaccinations done were 145. During this period artificial insemination was done in 544 cattle and in 81 buffaloes.

### Veterinary Diagnostic Laboratory:

#### Total work done during 2018-19

Type of Sample	No. of Samples
Blood	1,788
Faecal	123
Milk	577
Urine	1,526
Skin Scrapping	32
Peritoneal fluid	5
Serum	65
<b>Total</b>	<b>4,116</b>



Table:1 Number of case attended at Veterinary Clinical Complex (VCC) (month wise):

MONTH	CATTLE			BUFFALO			SHEEP			GOAT			HORSE			OTHERS			TOTAL			G.TOTAL
	MED.	SUR.	GYN.	MED.	SUR.	GYN.	MED.	SUR.	GYN.	MED.	SUR.	GYN.	MED.	SUR.	GYN.	MED.	SUR.	GYN.	MED.	SUR.	GYN.	
APR.2018	479	170	152	72	55	4	1	2	0	277	181	50	27	16	0	358	223	13	1214	647	219	2080
MAY.2018	581	236	118	102	65	18	8	4	1	245	337	52	15	20	4	352	208	8	1303	870	201	2374
JUN.2018	473	217	125	77	48	14	2	3	0	177	248	40	4	12	2	336	178	19	1069	706	200	1975
JUL.2018	608	217	122	66	50	16	12	3	1	360	211	58	14	46	1	354	185	2	1414	712	200	2326
AUG.2018	561	230	172	82	33	55	2	2	1	365	223	53	11	52	1	392	208	8	1413	748	290	2451
SEPT.2018	522	197	177	107	43	38	2	4	0	361	255	42	26	20	0	649	199	16	1667	718	273	2658
OCT.2018	468	220	140	110	50	45	1	19	0	397	264	66	13	30	0	361	201	13	1350	784	264	2398
NOV.2018	407	199	126	128	36	15	4	3	0	504	190	88	6	9	0	472	234	9	1521	671	238	2430
DEC.2018	305	206	123	127	55	30	12	3	0	365	263	60	16	7	0	638	238	13	1463	772	226	2461
JAN.2019	403	227	126	71	51	30	72	1	1	360	133	61	9	13	3	622	264	14	1537	689	235	2461
FEB.2019	408	193	106	68	41	24	108	2	2	485	97	65	14	8	6	577	167	14	1660	508	217	2385
MAR.2019	503	109	157	83	26	19	10	1	1	365	169	72	3	13	3	661	189	24	1625	507	276	2408
TOTAL	5718	2421	1644	1093	553	308	234	47	7	4261	2571	707	158	246	20	5772	2494	153	17236	8332	2839	28407



## Feed and Fodder Analysis and Consultancy:

The Department of Animal Nutrition receives samples of feed and fodder from Border Security Force, state departments of Animal Husbandry, Panchayat Samities, Co-operative dairies, Feed factories, farmers and different charitable trusts, etc. for analysis. In the period, 2018-19 total 2230 samples were received by various agencies for analysis over and above the consultancy given to the farmers and agencies.

## CANINE WELFARE SOCIETY

The medicine department has been instrumental in formation of a Canine Welfare Society involving Veterinarians including faculty members from the CVAS, Bikaner and pet owners with the objective to promote scientific pet - keeping and make the public aware of various zoonosis particularly rabies through certain extension activities organized for this purpose, viz Registration for Dog Shows, Stray dog sterilization programme (ABC programme), Seminars, hand - outs, press releases, video films, Dog Health Records Booklets etc. Canine Welfare Society for care of stray animals is functioning in the Clinical Veterinary Medicine department.

Annual report of canine welfare society is as under (1<sup>st</sup> April 2018- 31<sup>st</sup> March 2019).

The detailed annual report is as under -

1. Three Thousand seven hundred eighty seven pet owners were educated for health care and management of pet dogs.
2. One hundred forty five pet owners were registered under Rabies control programme and vaccination token were issued to the owners.
3. Free Rabies vaccination and awareness camps were organized on World Zoonosis Day 6<sup>th</sup> July, 2018 for pet owner and 70 dogs were vaccinated against rabies.
4. World Rabies day was organized on 28<sup>th</sup> September, 2018 in the canine outdoor 75 dogs were vaccinated against rabies. Gathering of 95 persons including dog owners, UG & PG students and teachers were present at the time of film show. Educational exhibits also displayed and pamphlets were distributed among students, pet owners and public at large.

5. Under Rabies control programme overall 200 students had been educated for control of rabies in dog with help of pamphlets, posters and charts.
6. Fort eight animals (Dogs-42, Cat-1, Cattle -5) were brought to canine welfare society and treated as per their requirement.
7. Under mange control programme 87 stray dogs were treated.

## Research papers published in journals (2018-19):

- Priyank Vyas, SC Mehta, Urmila Pannu and Pallavi Joshi (2018). Genetic and phenotypic trends of different body parameters in Indian Dromedary camel. *Journal of Entomology Zoology Studies*, 6(3):87-91.
- Sunita Meena, GC Gahlot, M Ashraf, U Pannu, H Chouhan and Garima Choudhary (2018). Study of genetic variability of chicken growth hormone gene in broiler strain (vencobb-400) by PCR\_RLFP. *International Journal of Chemical Studies*, 6(4):272-274.
- K Parihar, SBS Yadav, HK Narula, U Pannu and B Bais (2018). Genetic, phenotypic and environmental trends of growth and wool traits in Magra sheep. *Indian Journal of Small Ruminants*, 24(1):150-151
- Garima Choudhary, U. Pannu, G.C. Gahlot and Sunita Meena (2019). Effect of Genetic and Non-Genetic Factors on First Lactation Production Traits in Tharparkar Cattle. *Int. J. Curr. Microbiol. App. Sci*, 8(2): 2160-2164.
- Garima Choudhary, U. Pannu, G.C. Gahlot and M. Nehra (2019). Comparison of Sire Evaluation Methods for Milk Production in Tharparkar Cattle. *Int. J. Curr. Microbiol. App. Sci*, 8(2): 2205-2209
- Manju Nehara, Urmila Pannu and G C Gahlot (2019). Effectiveness of sire evaluation based on actual and predicted first lactation 305 day milk yield in Rathi Cattle. *Journal of livestock biodiversity*, 9(1): 01-04.
- Devendra Singh, Sanjeev Joshi and Pankaj Thanvi. (2018)- Histochemistry of liver of Large White Yorkshire Pig- *Veterinary Practitioner* Vol. 19(1):47
- Devendra Singh, Sanjeev Josh, Pankaj Thanvi, Nikhil Shringi and Poonam Rani.- (2018)-Morphometrical



- studies on the liver of Large White Yorkshire Pig (Sus scrofa).- Veterinary Practitioner Vol. 19(2): 38-39
- Poonam Rani, R.Mathur, Sanjeev Joshi, P. Thanvi Devendra Singh & M. K. Acharya- (2018)- Gross Studies on the Lumbar Vertebrae In Blue Bull (Boselaphustragocamelus)- Veterinary Practitioner Vol. 19(2):206-208
- Seema Sikarwar, R.Mathur ,Sanjeev Joshi , Pankaj Thanvi and Ashok Dangi-(2018)- Histological studies on the capsule of testes in Large White Yorkshire pig (Sus scrofa)- Veterinary Practitioner Vol. 19(2): 209-210.
- Seema Sikarwar, R. Mathur ,Sanjeev Joshi , Pankaj Thanvi & A.Dangi-(2018)- Gross and Morphometrical studies on the testes of Large White Yorkshire pig(Sus scrofa)- Journal of Animal Research: v. 8n.4.p.712-712
- Vikas Kumar, Sanjeev Joshi, Ashok Dangi, Kavita Rohlan and Dharma Ram Choudhary-(2018)- Clinical importance of the maxillofacial and mandibular regions of Blue Bull (Boselaphustragocamelus).- International Journal of Livestock Research: (01): 61- 66.
- N.S. Rathore , S.K. Kashyap, Anupama Deora , Pankaj Kumar, J Singh, B.N Tripathi and T R Talluri. Isolation and culture of putative mesenchymal stem cells from equine umbilical cord Wharton's Jelly. Indian Journal of Animal Sc. 88 (9) 1025-1029.
- N.K Sharma, H.R. Meena Devi Singh Rajput, A.K. Jain and Pankaj Mishra (2018). Gender Participation in Animal Husbandry Practice in Alwar and Bikaner Districts of Rajasthan, Ruminant Science, Vol. 7(1):123-128.
- Bharti Gujar, Devi Singh Rajput, N.K. Sharma, A.K. Jain and Pankaj Mishra (2018). Adoption level of Organic Animal Husbandry Practices among Livestock Owners of Arid Zone of Rajasthan. Veterinary Practitioners, Vol. 19(1): 156-158.
- N. K. Sharma, H. R. Meena and Hari R. (2018). Work Conflict Issues in Dairy Production and Management Practices- A Gender Analysis. International Journal of Livestock Research, 8(7): 160-166.
- A.K. Jain, N.K. Sharma, Devi Singh Rajput, Pankaj Mishra, Bharti Gujar and A.S. Arora (2018). Socio-personal and socio-economic profile of livestock farmers in tonk district of Rajasthan. Veterinary Practitioner, 19(2):303-305.
- O.P. Meena, N.K. Sharma, N. K. Jeph and D.S. Meena (2018). Constraints perceived by dairy members in adoption of new technologies in dairy farming in Rajasthan. Veterinary Practitioner, 19(2):317-319.
- Dharmveer Singh, JS Mehta, Pramod Kumar, AK Chaudhary, Amit Kumar and Nirmla Saini (2018). Effect of oestrus synchronization protocols and energy supplementation on reproduction of sheep. Indian Journal of Small Ruminants 24(2): 252-258.
- Purohit GN, Arora AS, Gocher T, Gaur M, Saraswat CS and Mishra P (2018) Uterine prolapse in buffaloes: A review. Asian Pacific J Reprod 7(6):241-245.
- Purohit GN, Gocher T, Chaudhary AK, Arora AS, Gaur M and Saraswat CS (2018). Perspectives of parturient hemoglobinuria in buffaloes. International J Dev Res 8(10):23513-23520.
- Ruhil S, Khichar V, Chaudhary A, Purohit GN and Mehta JS (2018). Hand-made cloning: An alternative to traditional cloning-A short communication. Life Science Leaflets 96:13-17.
- Kumar D and Purohit GN (2018) Uterine Luminal Fluid Proteins in Buffalo During Follicular and Luteal Stages and Early Pregnancy. J Anim Health Prod 6(1): 41-46.
- Kumar A, Mehta JS, Ruhil S and Purohit GN (2018). Effects of different estrous synchronization protocols on estrus and subsequent fertility in cycling cows. Ruminant Science 7(1):83-86.
- Kumar P, Purohit GN, Mehta JS (2018). Incidence of reproductive disorders in dairy cows. Intas Polivet 19(1):29-32.
- Gaur M and Purohit GN (2018). Ultrasonographic fetometry and fetal structures during early pregnancy in Surti buffaloes. Indian J Vet Sci Biotechnol 14(2):39-43.
- Kumar R, Ravi SK, Dholpuria S, Purohit GN, Pushp MK, Solanki S, Ganguly S, Singh CP (2018). Studies on fresh semen characteristics in Poitou donkeys. J Entomology and Zoology Studies 6(1):227-229.





- Pannu SP and Purohit GN (2018). Role of melatonin on Reproduction in seasonal breeding animals. The Blue Cross Book 38:18-21.
- Sasi G, Trilok Gocher, Purohit GN and Rajendra Mehra (2018). Non surgical fertility control in male and female dogs- the current status. Journal of Canine Development and Research 14:16-27.
- Devender Kumar, Satish, Bhanu Prakash and Purohit GN (2018). Fetal mummification in German Shepherd bitch- A case report. Journal of Canine Development and Research 14:69-70.
- Trilok Gocher, Sasi G, Purohit GN and Madan Mohan Meena (2018). Successful chemotherapy of transmissible venereal tumour (TVT) in a bitch- a case report. Journal of Canine Development and Research 14:71-73.
- Gaur M and Purohit GN (2019) Follicular dynamics and colour Doppler vascularity evaluations of follicles and corpus luteum in relation to plasma progesterone during the oestrous cycle of Surti buffaloes. Reprod. Domest. Anim. 54:585-594.
- Soni Y, Thirumala Rao Talluri, Ashok Kumar Chaudhary, SK Ravi, JS Mehta, B. N. Tripathi (2019). Effects of different concentration and combinations of cryoprotectants on sperm quality, functional integrity in three Indian horse breeds. Cryobiology 86:52-57.
- Soni Y, JS Mehta, A Kumar, A Tripathi, TR Talluri (2019). Management of dystocia due to macerated fetus in a mare. Indian Journal of Animal Reproduction 40 (1): 71-72.
- Satish, Satish Kumar, Ram Kumar, Ashok Kumar Chaudhary, Randhir Singh Kharsa and Naveen Chahar (2019). Comparison of conception rate after fix time natural mating and artificial insemination in estrus synchronized Murrah buffaloes: A short communication. Journal of Entomology and Zoology Studies. 7(1): 1353-1357.
- Ashok Kumar Chaudhary, Govind Narayan Purohit, Jitendra Singh Mehta, S K Ravi and T R Talluri (2019). Testicular measurements of Marwari stallions and their correlation with age, body weight and height. Veterinary Practitioner. 20(1): 105-107.
- Pramod Kumar, JS Mehta, SK Ravi, Talluri T Rao, GN Purohit and Ashok Kumar Chaudhary (2019). Cholesterol loaded cyclodextrin increases cryopreserve ability of Marwari stallion (*Equus ferus caballus*) spermatozoa by increasing cholesterol to phospholipid ratio. J Anim Res 9(2): 227-235.
- Surendar Singh Nirwan, Jitendra Singh Mehta, Ashok Kumar, Pramod Kumar, Arvind Kumar and Vikramjit Singh (2019). Effects of bypass fat on postpartum reproductive performance in dairy cattle. Indian J Dairy Sci 72(2):1-7.
- Ashok Prajapat, Basant Bais, Devendra Kumar, Rohit Meena, Yogesh Gadekar, Lokesh Tak, Ajay Sharma and Jorawar Singh (2019). Study on Textural analysis of camel and goat milk Paneer incorporated with spices. International Journal of Chemical Studies 2019; 7(3): 3885-3888
- Lokesh Tak, Basant Bais, Sanjay Singh, Neha Saini, Parma Ram Gorachiya and Durga Devi (2018). Studies on the physico-chemical properties and accessibility of camel milk using lactobacillus fermentum and phoenix dactylifera. International Journal of Chemical Studies 2018; 6(3): 952-954
- Parma Ram Gorachiya, Basant Bais, Devendra Kumar, Basant, Sanjay Singh, Durga Devi and Lokesh Tak (2018). Studies on preparation and sensory evaluation of whey beverages developed from camel and buffalo milk using pomegranate and watermelon fruit extract. International Journal of Chemical Studies. 6(2): 3725-3727.
- Sanjay Singh, Basant Bais, Lokesh Tak, Renu Kumari, Parmaram Gorachiya and Durga Devi. (2018). Evaluation of Titrable acidity (Ta) of camel and buffalo milk during lactic acid fermentation by using *Lactococcus lactis* ssp. cremoris and *Lactococcus lactis* ssp. Lactis. International Journal of Chemical Studies 6(3): 1023-1025.
- Suresh Kumar Pasi, Basant Bais, CS Dhaka, Jorawar Singh and Ajay Sharma. (2018). Studies on the effect of Lactobacillus with and without supplementation of live yeast on growth performance of broilers in arid zone of Rajasthan. International Journal of Chemical Studies. 6(3): 434-437.



- Devi D, Bais B and Kumar D.(2018). Development and sensory evaluation of flaxseed incorporated camel and buffalo milk nuggets. *International Journal of Chemical Studies*. 6(3): 1511-1515
- Basant Bais (2018). Role of field veterinarian in protected wild life region. *Int J Avian & Wildlife Biol*. 3(2):106-107.
- Basant Bais (2018). Taxonomy of some important wild/zoo animals found in India. *Int J Avian & Wildlife Biol*. 3(2):117-118.
- Kachhawa, J.P., Nayak, T.C., Savita, Marwaha Sumnil, Singh A.P (2018). Therapeutic management of hypodermosis in cattle. *The blue cross book*. 37: 65-67.
- Ahuja Anil and Yadav Rajendra (2017). An Overview – Infection Canine Hepatitis. *Journal of Canine Dev. & Res*. 13: 1-10.
- Gattani Anil, Kumar Ajeet, Singathia Rajesh, Gupta Sita Ram and Yadav Rajendra (2017). A Case Report- Thyrotropin Deficiency and Secondary Hypothyroidism in a Dog. *Journal of Canine Dev. & Res*. 13: 29-32.
- Dhuria Deepika, Pandey Shivangi, Saini Vijesh and Ahuja Anil (2017). A Case Report – Cheyletiellosis in a Dog. *Journal of Canine Dev. & Res*. 13: 38-39.
- Savita, Singh A.P., Nayak T.C., Gupta Sita Ram, Yadav Rajendra, Kachhawa J.P., Dhuria Deepika and Ahuja Anil (2017). A Case Report – Diagnosis and Therapeutic Management of Parvoviral Gastroenteritis. *Journal of Canine Dev. & Res*. 13: 40-42.
- Savita, Soni Yogesh, Ahuja Anil and Nayak T.C. (2017). A Case Report – Therapeutic Management of Snake Bite in a Dog. *Journal of Canine Dev. & Res*. 13: 48-50.
- Singh Kumar Naveen, Singh Piyusha, Ahuja Anil and Kachhawa J.P. (2017). Ojos Azules – A Breed Review (2017). *Journal of Canine Dev. & Res*. 13: 81-84.
- Ahuja Anil, Yadav Rajendra and Dhuria Deepika (2018). Scenario of Canine Coronavirus in India. *Journal of Canine Dev. & Res*. 14: 1-7.
- Savita, Ahuja A., Singh A.P., Chahar A., Dhuria Deepika, Kachhawa J.P., Gupta Sita Ram and Yadav Rajendra (2018). A Case Report- Diagnosis and Therapeutic Management of Mixed Infection of Hepatozoonosis and Ehrlichiosis in a Pit Bull Dog. *Journal of Canine Dev. & Res*. 14: 45-48.
- Dadhich Rupal, Yadav Jyoti and Dhuria Deepika (2018). Hospital Prevalence and Evaluation of some Factors Contributing to Renal Insufficiency in Canines. *Journal of Canine Dev. & Res*. 14: 53-55.
- P. Solanki, Ahuja A., Singh A.P., Choudhary S., Tanwar L. and Soni R. (2018). A Case Report – Demodicosis in a Dog. *Journal of Canine Dev. & Res*. 14: 56-58.
- Morwal Sandhya and Goklaney Deepika (2018). A Case Study - Clinical Management of Postpartum Eclampsia in a Female Dog. *Journal of Canine Dev. & Res*. 14: 59-61.
- Dhuria Deepika, Dadhich Rupal and Ahuja Anil (2018). A Case Report – Babesiosis in a Dog. *Journal of Canine Dev. & Res*. 14: 62-65.
- Dewal V.S. and Singh A.P. (2018). A Review – Homeopathy in Canine Practice. *Journal of Canine Dev. & Res*. 14: 33-38.
- Nayak, T C., Singh, A. P., Savita, Yadav, R., Gupta, S. R. and Kachhawa, J. P. (2019). Studies on Prevalence and risk factors associated with Colibacillosis in cattle calves in Bikaner. *Ruminant Science*. Vol. 8(1): 89-92.
- Soni, M., Kumar, V., Goswami, S. C., Singh, R. K. and Gupta, S. R. (2018). Effect of herbal feed additive (*Asparagus recemosus*) on SNF % and SNF yield of the milk of Kankrej Cows. *Veterinary Practitioner*. Vol.19 (2): 281-282.
- Agrawal, V.K., Gahlot, G.C., Ashraf, M., Thakur, S. and Gupta, S.R. (2018). Molecular characterization of DGAT 1 gene in Sahiwal Cattle. *Veterinary Practitioner*. Vol.19 (2): 320-322.
- Kachhawa, J. P., Marwaha, S., Savita, Nayak, T. C., Singh, A. P., Chahar, A. and Gupta, S. R. (2018). Prevalence study on subclinical mastitis in cross-bred cattle in Bikaner city of Rajasthan. *Veterinary Practitioner*. Vol.19 (1): 64-66.
- Singh Parmal, Ahuja A., Bihani D.K., Singh A.P., Dhuria Deepika, Chahar A. and Dewal V.S. (2018). Haemato-biochemical studies on summer hyperthermia in cattle. *Veterinary Practitioner*. Vol.19 (1): 76-78.



- Agrawal, V.K., Gahlot, G.C., Ashraf Mohd., Dhakad Govind, Thakur Sonal and Gupta, S.R. (2018). Study on genetic polymorphism of Myostatin gene in Magra sheep. *Veterinary Practitioner*. Vol.19 (1):9-11.
- Yadav Jyoti, Bihani D.K., Gahlot A.K., Kashyap S.K., Choudhary Sunita and Singh A.P. (2018). Molecular prevalence of canine monocytic ehrlichiosis. *Veterinary Practitioner*. Vol.19 (1):84-86.
- Savita, Chahar Anju, Singh A.P., Tak Lokesh and Nayak T.C. (2018). Study of prevalence, somatic cell counts and electrical conductivity in sub-clinical mastitic cattle. *Veterinary Practitioner*. Vol.19(1): 98-100.
- Kiran, Ahuja Anil, Dhuria Deepika, Chahar Anju, Tanwar R.K. and Khichar Jai Prakash. (2018). A study on alteration in haematological parameters in heat stroke affected cattle. *Veterinary Practitioner*. Vol.19(1): 106-107.
- Tarunpreet, Joseph Bincy, Sharma S.K. and Singh A.P. (2018). Molecular characterization, detection and quantification of *Escherichia coli* strains isolated from diarrhoeic lambs using both gradient PCR and SYBR green real time PCR. *Veterinary Practitioner*. Vol.19(2): 165-170.
- TarunaBhati and A. K. Kataria. (2019). Characterization of *Staphylococcus aureus* isolates from mastitic milk, udder surfaces and milkers hands from arid and semi-arid regions of India for capsular (cap5K and Cap8K) collagen adhesion gene. *Indian Journal of Animal Sciences*. 89(11):1184-1187.
- Taruna Bhati, Kumar Gaurav, Sunita Choudhary, Diwakar and A. K. Kataria. (2019). Molecular Detection of some virulence genes of *Staphylococcus aureus* isolates associated with bovine mastitis in Arid and semi-arid regions of India. *International Journal of Current Microbiology and Applied Sciences*. 8(11):2350-2362.
- Sunita, Diwakar and AK Kataria. (2019). Antibiotic resistance pattern of *Staphylococcus aureus* milk isolates from cattle with clinical mastitis. *Ruminant Science*. 6(2): 319-322
- Dheerendrasuthar, Mukul purva, Kritika Gahlot, Anupama deora, Sunil Maherchandani. (2019). Sequence analysis of toll like receptor 1 gene of camel (*Camelus Dromedaries*) *Journal of Camel Practice and Research* 26(1):41.
- Ram Kumar, Riyesh Thachamvally, Sunil Maherchandani, Bhupendra Nath Tripathi, Sanjay Barua, Naveen Kumar. (2019). Molecular Mechanisms Associated with Virus-induced Oncogenesis and Oncolysis *Cancer Research Journal* 7(3):87-100
- Kataria, A.K., Kataria, N., Pareek, R.K., Akriti, Diwakar; Choudhary, S. and Kumawat, R.N. (2018). Effect of temperature humidity index on migration of Himalayan griffon (*Gyps himalayensis*) at Jorbeer conservation reserve, Bikaner, India. *Journal of Entomology and Zoology Studies* 6 (5):747-751.
- Choudhary, S., Rathore, P., Meena, D., Boyal, P.K., Mehta, S. and Kataria, A. K. (2018). PCR based identification of processed cattle and horse meat. *Veterinary Practitioner* 19(1):7-8
- Choudhary, S., Diwakar, T Bhati and A.K.Kataria. (2018). Molecular typing of virulence associated gene (spa) of *S. aureus* isolated from cattle clinical mastitis. *Journal of Entomology and Zoology Studies*. 6(1):1057-1060
- Choudhary, Priyanka & Shringi, B.N. & Patel, K., Kumari, M. & Harshad, Chauhan & Chandel, B.S. & Kashyap, S.K. (2018). Brucellosis in buffaloes in western Rajasthan: A seroprevalence study. *The Indian Veterinary Journal*. 95(8):77-79
- Ram Kumar, Nitin khandelwal, Riyesh Thachamvally, Bhupendra Nath Tripathi, Sanjay Barua, Sudhir Kumar Kashyap Sunil Maherchandani, Naveen Kumar. (2018). Role of MAPK/MNK1 signalling in virus replication. *Virus Research* 253:48-61
- Ram Kumar, Nitin khandelwal, Yogesh Chander, RiyeshThachamvally Bhupendra nathtripathi, Sudhir kumar Kashyap, , Sanjay Barua, Sunil Maherchandani and Naveen Kumar. (2018). MNK1 inhibitor as an Antiviral agent suppresses buffalopox virus protein synthesis. *Antiviral Research*. 160:126-136
- Budhi Prakash Meena, Subhash Chander Goswami, Vijay Kumar, Arun Kumar Jhirwal, Vikramjit



- Singh and Vikas Sharma (2019). Study the Relationship of BCS with Milk Composition and Reproductive Performance. *Int. J. Curr. Microbiol. App. Sci.* 8(01): 228-235.
- Meena, B.P., Goswami, S.C., Kumar, V., Jhirwal, A.K., Singh, V. and Sharma, V. (2019b). Study the relationship of body condition scores with production performance in Kankrej cattle. *Journal of Entomology and Zoology Studies*, 7(1): 1465-1468.
- Preethi, S., A.K. Jhirwal, S.C. Goswami, R.A. Legha, V. Kumar and V. Singh (2019). Effect of Ambient Temperature and Relative Humidity on the Foal's Skin Surface Temperature under North and South Facing House in Semi-Arid Regions. *Veterinary Practitioner*, 20(1): 135-137.
- Sharma, V., Jhirwal, A. K., Goswami, S. C., Choudhary, V. K., Singh, V. and Meena, B. P. (2019). Effect of Body Condition Score on Milk Composition and Reproductive Performance of Sahiwal Cattle. *International Journal of Livestock Research*, 9(12), 59-67
- Sharma, V., Jhirwal, A.K., Goswami, S.C., Kumar, V., Singh, V. and Meena, B.P. (2019). Effect of precalving BCS on postpartum BCS and body weight change of Sahiwal cattle. *Explor. Anim. Med. Res.*, 9(2): 158-161.
- Singh, V., S.C. Goswami, A.K. Jhirwal, V.K. Choudhary and V. Kumar (2020). Effect of challenge feeding on body condition scores and calf birth weight of Sahiwal cattle. *International Journal of Chemical Studies*, 8(1): 1857-1860.
- Arora, R. (2019). Study on effect of improved shelter management practices on haematological parameters of sahiwal cattle in arid region of Rajasthan, *International Journal of Chemical Studies* 7(5)-2180-2182.
- Praveen Panwar, Abhishek Gupta and Poonam Choudhary (2019). Prevalence and risk assessment of coccidiosis in dairy animals of Arid western plains of Rajasthan. *The Haryana Veterinarian*, 58(2): 193-196.
- Praveen Panwar, Abhishek Gupta, Poonam Choudhary and P. K. Pilania (2018). Studies on gastrointestinal nematodosis and associated risk factors in dairy animals of arid western plains of Rajasthan. *International Journal of Bio-resource and Stress Management* 2018, 9(6): 718-722
- Poonam Choudhary, Abhishek Gupta, V. Singh (2018). Epizootiological studies on gastrointestinal helminths and associated risk factors in the dairy animals of internal drainage dry zone of Rajasthan, India. *Exploratory Animal and Medical Research* 8 (2): 184-189
- Poonam Choudhary, Abhishek Gupta, Pilania P.K., Singh V., Shringi Rupali (2018). Prevalence and Risk Factor Assessment of Bovine Eimeriosis in Internal Drainage Dry Zone of Rajasthan (India). *Applied Biological Research* 20 (3): 310-316
- Parmar K.P., Abhishek Gupta, Monika and G.S. Manohar (2018) Prevalence, Diversity and Risk Assessment Camelid Eimeriosis in Hyper-Arid Partially Irrigated Zone of Rajasthan. *Camel: Int. Journal of Veterinary Science* 6, (1): 09-17.
- Abhishek Gupta, N. K. Singh, Harkirat Singh and S.S. Rath (2018). Assessment of risk factors associated with prevalence of gastrointestinal helminths in buffaloes from Punjab state, India. *Buffalo Bulletin*, 37 (3): 279-290.
- Renu, S. Rani, H. Dadhich, M. Mathur, M. Mehra, S. Asopa and Umesh Kumar Prajapat (2018): Incidence and pathology of pulmonary tuberculosis in cattle. *Veterinary Practitioner*. Vol. 19(1): 24.
- Goverdhan Singh, Rohitas Dadhich, Kamal Purohit, Mamta Kumari, Manisha Mehra, Bincy Joseph, SK Sharma and CS Vaishnava (2019): Pathomorphological and hematobiochemical studies on oral tumors in digestive tract of sheep (*Ovis aris*) in southern region of Rajasthan. *Int. J. Chem. Stud*; 7(2): 1581-1583.
- Naresh Kumar Sharma, S. Rani, H. Dadhich, I. Vyas, M. Mathur, M. Mehra, S. Asopa and S. Kumar (2019): Occurrence and pathological conditions affecting blood vessels of Camels in North-western Rajasthan. *Ruminant sci.* 7(2) 257-260.
- Mangesh Kumar, Rajesh Kumar Dhuria, Dinesh Jain, Rajesh Nehra, Tribhuwan Sharma, Umesh Kumar





- Prajapat, Subhash Kumar and S.S.Siyag (2018). Effect of inclusion of sun dried Azolla (*Azollapinnata*) at different levels on the growth and performance of broiler chicks. *Journal of Animal Research*. 8 (4):629-632.
- Kumari Renu., Dhuria, R.K., Patil, N.V. and Sawal, R.K. (2018). Effect of different levels of Azolla (*Azollapinnata*) incorporation in pelleted complete feed on growth performance of camel calves. *Journal of Camel Practice and Research*. 25(3):1-3.
- Goklaney Deepika, Ahuja Anil and Dhuria, R.K. (2018). Macro and micro mineral status of feeds and fodders of goats in arid zone of Rajasthan. *Ruminant Science*. 7(1):15-20.
- Limba, A.K., Dhuria R.K., Sharma, T., Jain, D. and Sarita (2018). Effect of feeding of hydroponics maize fodder on Haemato-biochemical parameters in Rathi cows. *Veterinary Practitioner*. 19(1): 130-131.
- Saini, J., Sharma, T., Dhuria R.K. and Nirmala Kumari (2018). Effect of feeding ashwagandha and enzyme alone and in combination on the growth parameter of broiler chicks. *Veterinary Practitioner*. 19(2): 269-271.
- Umesh Kumar Prajapat, D. Jain, T. Sharma, R.K. Dhuria, B. Bais and M. Kumar (2018). Effect of dietary supplementation of Tulsi (*Ocimum sanctum*) and Fenugreek (*Trigonella foenum-graceum* L.) on carcass characteristics of heat stressed broilers in arid zone. *International Journal of Livestock Research*. 8(10):49-53.
- Mangesh Kumar, Rajesh Kumar Dhuria, Dinesh Jain, Tribhuwan Sharma, Rajesh Nehra, Lokesh Gupta (2018). Effect of Supplementation of Azolla on the Hematology, Immunity and Gastrointestinal Profile of Broilers. *International Journal of Livestock Research*, 2018. 8(9):184-191.
- Subhash Kumar, D. Jain, Tara Bothra, T. Sharma, R.K. Dhuria, R. Nehra, Umesh Kumar Prajapat, S.S. Siyag and Mangesh Kumar (2018). Effect of phytase supplementation in maize-soybean based feed on comparative economy for broilers production. *International Journal of Chemical Studies*. 6(4):523-524.
- Kumar, S., Jain, D., Bothra, T., Sharma, T., Dhuria, R.K., Nehra, R., Prajapat, U.K., Siyag, S.S. and Kumar, M. (2018). Effect of phytase supplementation in maize-soybean based feed on tibia bone characteristic of broiler chickens. *International Journal of Chemical Studies*. 6(4):561-562.
- Siyag, S.S., D. Jain, Tara Bothra, T. Sharma, R.K. Dhuria, R. Nehra, Umesh Kumar Prajapat and Mangesh Kumar (2018). Effect of Chromium Supplementation from Different Sources on Performance of Broilers. *International Journal of Chemical Studies*. 6 (4):549-554.
- Bothra, T., A.K. Patel, Vijay Kumar, S.C. Goswami, H.K. Narula and D. Jain (2019). Effect of Nutrition and Shelter on haemoglobin and Packed Cell Volume of Magra lambs in two lambing seasons under arid zone Veterinary practitioner. 20 (1): 127-129.
- Jain, D., R.K. Dhuria, T. Sharma and T. Bothra (2019). Effect of supplementation of *Tinosporacordifolia* (at graded levels) and ascorbic acid either alone or in combinations on tibial bone characteristic of broiler chicken. *Veterinary practitioner*. 20 (1): 121-123.
- Manju., Dhuria, R.K. Khinchi, R.K. Meel Padma and Meel, M.S. (2019). Evaluation of In Vitro gas production and digestibility of wheat straw based complete feed supplemented with different levels of herbs in rumen liquor of Marwari sheep. *International Journal of Livestock Research*. 9(1):80-85.
- Shende, K.A., Dhuria, R.K. and Meel, M.S. (2019). Effect of supplementation of *Ocimum sanctum* (Tulsi) leaf and *Zinziberoffcinale* (Ginger) powder as feed additives on nutrient utilization of broiler chicks. *International Journal of Science, Environment and Technology*. 8(6):1129-1134.
- Chandra Pratap Singh, Manisha Mathur, Dadhich, H. and Subha Ganguly (2018): Molecular characterization of *Staphylococcus aureus* of camel (*Camelus dromedarius*) skin origin. *Int. J. Curr. Microbiol. App. Sci*. 7: 3486-3490.
- Hemvati, Pratishtha Sharma and Ashok Gaur (2019). Disposition Kinetics of Cefquinome in Calves after a Single Intramuscular Bolus Dose. *International*



- Journal of Current Microbiology and Applied Sciences. 8(1):494-500. (Jan-2019)
- Neelam Dinodia, Pratishtha Sharma, Ashok Gaur and Mamta Meena (2019). Pharmacokinetics of Marbofloxacin after Single Intravenous Administration in Calves. International Journal of Current Microbiology and Applied Sciences. 8(06): 1521-1528.
- Rakesh Ranjan, R K Sawal, Amita Ranjan and N V Patil (2019) Comparison of calcium absorption from nano and micro-sized calcium salts using everted gut sac technique. Indian Journal of Animal Sciences, 89 (3): 337-339.
- Lakshmi Kant, Amita Ranjan, Rakesh Ranjan (2019) Hematobiochemical changes following repeated cefquinome administration in camel (*Camelus dromedaries*). Indian Journal of Veterinary Medicine, 39 (1): 43-45.
- Singhal, S.S.; Saini, M.; Saini, Pareek, S.; Saini, B.S.; Joshi, A and Kataria, N. (2018). Erythrocyte antioxidant status of indigenous pig from arid tracts during hot and cold ambiances. Veterinary Practitioner. 19(1):12-14.
- Saini, M.; Singhal, S.S.; Joshi, A.; Pareek, S.; Saini, B.S.; and Kataria, N. (2018). Archetype of variations in erythrocytic antioxidants of non-descript goat from arid tracts during hot and cold ambiances. Veterinary Practitioner. 19(1):18-20.
- Joshi, A. and Kataria, N.(2018). Alterations in serum 5' nucleotidase activity of Rathi female calves, heifers and cows from arid tracts during extreme ambiances. Acta Biomedica Scientia. 5(2): 43-50.
- Joshi, A. and Kataria, N.(2018).Modulations in serum pepsinogen activity of Rathi female calves, heifers and cows from arid tracts during various ambiances. European Journal of Environmental Ecology. 5 (1):7-15.
- Srivastava, A. and Kataria, N. (2018). Contemplation of metabolomics during extreme hot ambience in non-descript sheep from arid tracts. International Journal of Chemical Studies. 6(4):2754-2757.
- Srivastava, A.; Kataria, N. and Kataria, A.K.(2018). The intriguing alterations in non-enzymatic serum oxidative stress biomarkers of non-descript sheep from arid tracts during extreme hot environmental temperature period. Veterinary practitioner. 19 (2):15-17.
- Arora, S. And Kataria, N. (2018). Effect of heat stress on interrelation of T3 and T4 hormones and metabolites of poultry birds. Journal of Poultry Science and Technology. 6(4):1-4.
- Kataria A.K.; Kataria, N.; Pareek, R.K.; Akriti, Diwakar, Choudhary, S. Kumawat, R.N.(2018). Effect of temperature humidity index on migration of Himalayan griffon (*Gyps himalayensis*) at Jorbeer conservation reserve, Bikaner, India. Journal of Entomology and Zoology Studies. 6(5): 747-751.
- Sharma A., Koli G., Shandilya M., Nehra P., Singh N.P., TanwarMahendra, Palecha Sakar (2018). Cervical oesophageal diverticulum in a buffalo. Indian Journal of Veterinary Surgery 3(1):73.
- Palecha Sakar, Singh Satyaveer, TanwarMahendra, Bishnoi P., Koli G. (2018). Surgical extirpation of nasal mass in a cow. Indian Journal of Veterinary Surgery 39(1):69.
- Palecha Sakar, TanwarMahendra and Singh Satyaveer (2017). Surgical Management of Ostructive Urolithiasis in a Cat. Indian Journal of Veterinary Surgery 38(2):143.
- TanwarMahendra, Gahlot T.K., Palecha Sakar and Bishnoi P (2017). Diagnosis of Bovine Hydrothorax with Computed Radiography. Indian Veterinary Journal 94(6):75.

## Seminars/ Symposia/Workshops attended by faculty (2018-19):

Narendrra Choudhray attended Role of leptin in growth, reproduction and milk production in farm animals XIV Annual Convention of the Indian Society of Animal Breeding & Genetics (ISAG&B) organized by Sher-a- Kashmir University of Agricultural Science & Technology of Jammu.

Urmila Pannu attended Attended and Co-chair the Asian Regional Conference on Goats 22-26 Oct 2018 organized by Amity University Rajasthan Jaipur.

Anju Chahar, A.K.Pandey, Devi Singh Rajput, Neeraj Kumar Sharma, Pramod Kumar, Dr. A.P. Singh, Dr. J.P. Kachhawa, Dr. Sita Ram Gupta, and Dr. Sunita Choudhary. Dr. R.K. Tanwar, Dr. Anil Ahuja, Dr. A.K.



Kataria, Dr. B N Shringi, Dr. Sunil Meharchandani, Dr. TarunaBhati, Dr. Diwakar, Dr. Akriti, Dr. Dinesh Jain, Dr. Sunita Rani, Dr. Hemant Dadhich, Dr. Indu Vyas, Dr. Manisha Mathur, Dr. SheshAsopa, Dr. Pratistha Sharma, Dr. Amita Ranjan, Dr. Rakesh Rao, Dr. Rajani Joshi attended National Symposium on “ Holistic Approach in Veterinary Medicine for Better Animal Health to Meet Challenges of One Health Mission” & 37<sup>th</sup> Annual Convention of Indian Society for Veterinary Medicine organized by Department of Clinical Veterinary Medicine, Ethics and Jurisprudence , CVAS (RAJUVAS), Bikaner-334001 (Raj.) India.

Neeraj Kumar Sharma attended Faculty Development programme (workshop) on “Universal Human Values and Professional Ethics” organized by College of Engineering and Technology, Bikaner June 1-8,2018.

Neeraj Kumar Sharma attended one day workshop “Milan 2018” organized by RAJUVAS, Bikaner in Collaboration with NIAB, Hyderabad, 13 July, 2018.

Neeraj Kumar Sharma attended 9<sup>th</sup> National Extension Education Congress-2018 on “Climate Smart Agricultural Technologies: Innovations and Interventions organized by College of Agriculture and Post Harvest Engineering Technology, Ranipool, Sikkim 15<sup>th</sup>-17<sup>th</sup> November, 2018.

Dr. Sandeep Dholpuria, Dr. Ashok Kumar, Dr. Pramod Kumar, Dr. Amit Kumar, Dr. Basant Bais Attended XXXIV Annual Convention of the Indian Society for Study of Animal Reproduction and International Symposium on “Productivity Enhancement through Augmenting Reproductive Efficiency of Livestock for Sustainable Rural Economy” Anand, Gujarat, India.

Dr. J.P. Kachhawa, Dr. Sita Ram Gupta, Prof. R.K. Dhuria, Professor, Dr. Rajesh Nehra attended National Congress on Canine Practice and XVI<sup>th</sup> Annual Convention of Indian Society for Advancement of Canine Practice and National Symposium on “Exploring New Horizons in Canine Practice and Welfare” organized by Khalasa College of

Veterinary and Animal Sciences, Amritsar, Punjab 26<sup>th</sup>-28<sup>th</sup> February, 2019.

Dr. Rajesh Dhuria and Dr. Rajesh Nehra XI Biennial Conference of Animal Nutrition Association (ANACON 2018) on Reorienting Animal Nutrition Research in the perspective of farmers Welfare organized by Bihar Animal Science University at Patna from 19-21 November, 2018.

Dr. Rajesh Dhuria attended IAUA Golden Jubilee International Conference on Agricultural Education- Sharing Global Experiences organized by Indian Agricultural Universities Association organized by NASC Complex, New Delhi from 23-25 November, 2018.

Dr. Pratistha Sharma attended XVIII Annual Conference of Indian society of Veterinary Pharmacology and Toxicology and National Symposium on “One Health: Veterinary Pharmacology and Toxicology Approaches” at AAU, Anand, Gujarat 5-7 December, 2018.

Dr. Amita Ranjan attended Summer school on 'Applied aspects of statistical modeling and inferences in veterinary and animal sciences' at GADVASU, Ludhiana. August 21-September 10, 2018.

Dr. P. Bishnoi, Dr. Sakar Palecha, Dr. S.K. Jhirwal, Dr Mahendra Tanwar and Dr. Anil Kumar Bishnoi attended 42nd Annual Congress of Indian Society for Veterinary Surgery and National Symposium on “Recent Advances in Diagnostic Imaging and Surgical Techniques in Farm and Companion Animals 22-24 November 2018.

Dr. R.K. Dhuria attended “State Convention for Enriching Higher Education” organized by National Working Group on Employment, New Delhi at MPUAT, Udaipur on 13<sup>th</sup> September, 2018.

Dr. Rajesh Nehra and Dr. Dinesh Jain attended short course on “Fodder Management Strategy for Sustainable Livestock Development under Climate Change Scenario” organized by Indian Institute of Agribusiness Management, SKRAU, Bikaner from 2-22 September 2018.

Dr. Ashok Dangi attended One day workshop “Milan 2018” RAJUVAS, Bikaner in Collaboration with NIAB, Hyderabad 13 July, 2018.

## Books:

1. Entrepreneurial Skill Development for Livestock Products. Chief editor - Basant Bais Editor- Lokesh Tak Co-editors- Sanjay Singh, Parma Ram, Durga Devi, Ashok Prajapat, Rohit Kumar, Ajay Sharma, Jorawar Singh 2018 NBS Publisher & Distributors Bengali Mandir, Rani Bazar, Bikaner
2. “पशु शरीर रचना विज्ञान” – A text book of Veterinary Anatomy, Ashok Dangi, L. N. Sankhala, Manish Vashishtha and Pradeep Jangir (2018), ISBN:ISBN 978-81-940608-0-2, Murlidhar Prints, Sikar, Rajasthan, India
3. “पशु शरीर क्रिया विज्ञान ” - A text book of Veterinary Physiology, Ashok Dangi, L. N. Sankhala, Manish Vashishtha and Dheeraj Pratap Singh(2018), ISBN:ISBN 978-81-940608-2-6, Murlidhar Prints, Sikar, Rajasthan, India
4. “आनुवांशिकी एवं प्रजनन” - A text book of Breeding and Genetics, Ashok Dangi, L. N. Sankhala, Manish Vashishtha, Mukesh Kumawat, Virendra Sharma and Nitesh Jain (2018), ISBN:ISBN 978-81-940608-4-0, Murlidhar Prints, Sikar, Rajasthan, India
5. “पशु पोषण”-A text book of Animal Nutrition, L. N. Sankhala, Ashok Dangi, Manish Vashishtha and Murli Lal Mathur (2018), ISBN:ISBN 978-81-940608-5-7, Murlidhar Prints, Sikar, Rajasthan, India
6. “पशु औषध विज्ञान”-A text book of Veterinary Pharmacology, L. N. Sankhala, Ashok Dangi, Manish Vashishtha, Manish Agrawal and Yashpal Jangir (2018), ISBN:ISBN 978-81-940608-1-9, Murlidhar Prints, Sikar, Rajasthan, India
7. “पशु चिकित्सा विज्ञान” -A text book of Veterinary Medicine, L. N. Sankhala, Ashok Dangi, Manish Vashishtha, Yogesh Somvanshi and Murli Lal Mathur (2018), ISBN:ISBN 978-81-940608-3-3, Murlidhar Prints, Sikar, Rajasthan, India
8. “पशुधन सहायक भर्ती” *LSA RECRUITMENT*” - A question bank for Live Stock Assistant recruitment, Manish Vashishtha, L. N. Sankhala, Ashok Dangi, Alok Gaur, Mukesh Kumawat, Yashpal Jangir, Sumit Daria, Sudhir Jangid and Dinesh Khichar (2018), Murlidhar Prints, Sikar, Rajasthan, India







यशोधनं नित्यं सर्वलोकोपकारकम्।

## Annual Report 2018-19

### Award received during 2018-19

S.No.	Name of Faculty	Name of award-details	Awarding authority
1.	Dr. Sunita Choudhary	Best oral Presentation in National Symposium on "Holistic Approach in Veterinary Medicine for Better Animal Health to Meet Challenges of One Health Mission"	Indian Society of Veterinary Medicine (ISVM)
2.	Dr. Sunita Choudhary	Certificate of Ek Bharat Shresht Bharat - National Camp attended at Jaisalmer	NCC
3.	Dr. Sita Ram Gupta	Best Poster Presentation in National Symposium on "Holistic Approach in Veterinary Medicine for Better Animal Health to Meet Challenges of One Health Mission"	Indian Society of Veterinary Medicine (ISVM)
4.	Dr. Sakar Palecha	Bernstein Travel Fellowship	International Veterinary Radiology Association (IVRA)
5.	Dr. S. K. Jhirwal	Gold Medal in 42nd Annual Congress of Indian Society for Veterinary Surgery and National Symposium on "Advances in Diagnostic Imaging and Surgical Techniques in Farm and Companion Animals."	Indian Society for Veterinary Surgery
6.	Dr. Neeraj Kumar Sharma	Young Scientist Award	National Extension Education Society



समृद्धिर्न सिध्यति सर्वलोकोपकारकम्।

## Annual Report 2018-19

### Hostel Facilities

SN	Name of Hostel	Type of Hostel (Boys/ Girls/ International)	Wi-Fi	Accommodation Facilities in Number			Alternative Arrangements	
				Rooms	Beds	Total No. of allotted Beds	Rooms	Beds
1.	UG-I	Boys	Available	75	163	89	<b>100 Extra Beds are available</b>	
2.	UG-II	Boys	Available	09	27	15		
3.	PG-I	Boys	Available	35	35	35		
4.	PG-II	Boys	Available	38	54	40		
5.	New Boys Hostel	Family Hostel	Available	13	26	26		
6.	Girls Hostel	Girls	Available	68	132	132		
7.	Intern Hostel	Boys	Available	11	33	-		

### Residential Colony (For Student)

Family Quarters	No. of Quarters	Family lives
	13	13





## **LIBRARY**

The Library remains open on all working days during working hours of the college. Efforts are made to acquire latest useful text books/reference books needed specifically for students, researchers and faculty.

The Library has built up a very good collection of books to provide the college community enough to meet their various information needs and purposes. Recent publications are procured for the use of library users. The library collection consists of about 58022 publications including textbooks, reference books, e-books, manuals, advances, encyclopaedias, dictionaries and annual reports. During the year under report 1411 Reports/ Newsletter and pamphlets were added to the library collection.

In college library Journals are the most important medium of scientific communication because of its up-to-date ness, the library subscribes 35 Indian journals & 05 foreign Journals during the period under report. As well as Electronic information like CeRA provide for the improvement of academic and research programmes.



## **JOURNALS:**

Back volumes of Journals play a vital role in reference service. Hence the back volumes of the Journals are carefully bound and kept as reference for students, faculty and researchers. The library has got a rich collection of about 6163 bound volumes of International and National Journals.

## **BACK VOLUMES OF JOURNALS:**

The library helps the users to retrieve data from the CD-ROM database. The library procures important CD-ROM database to strengthen the CD-ROM database access facility. Various CD-ROM relevant to veterinary and animal sciences are also procured and kept for reference in the library. At present there are 60 CD-ROM databases available in the library. The library collection is consisting of 15 video cassettes with facility to make use of the resources.

## **Library Services:**

1. Document landing Service
2. Reference service
3. OPAC Service
4. Reprography Service
5. General/SC/ST Book Bank Service
6. Newspaper Clipping Service.
7. Inter-Library Loan Service







राजस्थान विश्वविद्यालय  
वैद्यकीय एवं पशु चिकित्सा विभाग

## Annual Report 2018-19

### Library Collection as on 30.06.2019

Sr. No.	Documents	TOTAL
1.	General Books	29950
2.	Book-Bank Books	9637
3.	Social-Welfare Books	4387
4.	Mrs. Kusum Rathor Trust Books	232
5.	Bound Journals	6163
6.	Thesis	1374
7.	Reports	5877
8.	Video-Cassette	15
9.	Books CD	100
10.	VET/BEAST CD-ROM DATABASE	48
11.	CAB-CD, CD-ROM DATABASE	36
12.	E-BOOKS	203
	TOTAL =	58022



### Facility of e-library:

A well furnished room with 50 reader capacities having all facilities for accessing the internet and CDROM database and online access is available for use by the staff and student of RAJUVAS. The eagerness to use the e-library facility for acquiring their needful information is increasing day by day among the users.

### Information services:

The library is providing various types of information services to the users, articles from current journals are sent to faculty members regularly.

### Digitization of information resources:

The library has taken up digitization project entitled "e-Granth: strengthening of digital library & information management under NARS" of NAIP component -1. The library has been able to become one of the active partners in developing Agri-Cat: the union catalogue of agricultural institutes of India by this, the user of this university can be able to browse the holdings of other libraries affiliated to ICAR.

### Membership of Library consortium:

#### 1) CeRA: Consortium for e-Resources in Agriculture

### Extension programmes:

The non credit paper PGS-501: library & information services are imparted to post graduate and Ph.D. students of university as prescribed by ICAR.

### STRENGTHENING OF COLLEGE LIBRARIES UNDER RAJUVAS:

#### Post Graduate Institute of Veterinary Education and Research, Jaipur.

PGIVER Library strengthens with facility of foreign / Indian journals through Consortium for e-resources in Agriculture (CeRA),

College of Veterinary and Animal Science, Vallabhnagar, Udaipur Library strengthens with facility of foreign / Indian journals through Consortium for e-resources in Agriculture (CeRA),

LRS, NOHAR: strengthens with 270 books.

LRS, Chandan: strengthens with 264 books.

LRS, Bojunda, Chittorgarh: strengthens with 110 books





## Mera Gaon Mera Gaurav

### Detailed Progress:

Team members attempted to develop general awareness among animal owners and farmers to maintain cleanliness in their houses, schools and in other places of villages. Animal owners and farmers were reminded about the different techniques to maintain cleanliness around them and in animal houses. Disease prevention in animals was discussed with the farmers and preventive measures were suggested. Frequent grooming of milch animals was advocated. The main point of discussion started with taking measures for individual hygiene followed by household hygiene, cleanliness in animal barns, area around houses, school cleanliness etc. Literature was also distributed among animal owners to develop awareness. Various demonstrations were also carried out. Scientists of team visited the adopted villages and made interaction with villagers.

Name of institute	Total no of groups formed	No of scientists involved	No of village covered	No of field activities conducted	No of messages/advisory sent	Farmers benefited (No.)
CVAS, Bikaner	14	70	70	1591	309	18,985

*Goshthies, training programme* were organized in the adopted villages about advanced scientific management practices, anoestrous, repeat breeding, retention of placenta, dystokia, other gynecological disorders, commonly occurred diseases, seasonal diseases, vaccination, deworming, balance feeding, fodder conservation, organic livestock farming, poultry farming etc. Information regarding various schemes for animal husbandry was provided to the livestock farmers

### Activities undertaken

Activities organised by ICAR Institutes/ SAUs under MGMG

S. No.	Name of activity	No. of activities conducted	No. of farmers participated & benefitted
1.	Visit to village by teams	172	5362
2.	Interface meeting/ <i>Goshthies</i>	188	4713
3.	Training organized	63	981
4.	Demonstrations conducted	75	1049
5.	Mobile based advisories (No of message)	309	585
6.	Literature support provided (No)	460	3274
7.	Awareness created (No)	324	2971
8.	Other, if any	Distribution of mineral mixture and treatment of Diarrhoea and pneumonia in calf, Deworming of calves in Gusaisar village	50

## Extra Curricular activities

### 1. Smart Village Daiyan related activities:

- A gosthie was organized on "Importance of cleanliness in human health".
- The work of construction of pond has been started and completed.
- A medical camp is regularly organizing in the village in every month. Iron pills distributed to women and children were vaccinated.
- Cleanliness awareness campaign was organized as per the Raj Bhawan Calander.
- Gosthie for senior citizen was organized to aware them about various scheme for senior citizen.
- Gosthie was organized on Adult literacy.
- Door to door survey was conducted to prepare Impact Assessment Report.



- A Computer Literacy Programme is running at the Information Centre. More than 60 students have been taught basic knowledge of computer and Internet access.

### 2. Smart Village Initiative (Jaimalsar) related activities:

- Tentative Action Plan has been prepared in consultation with sarpanch.
- Skill development training was organized in association with Rajasthan Skill and Livelihood Development Corporation (RSLDC).
- Gosthie was organized on Adult literacy.
- *Nasha Mukti Abhiyaan* and *Anaemia Mukti Abhiyaan* was organised in coordination with Department of Medical Health and Family Welfare. Villagers, school children and employees of various departments took oath for Give-up



never to use any intoxication. Iron and folic acid tablets were distributed among school children.

- A *Swachchhta gosthie* was organised at *Gram Panchayat Bhawan*.
3. Students of CVAS Bikaner departed for their 10 days All India Educational Tour on 17th April, 2018. They visited the veterinary institutes situated at Ludhiana, Amritsar, Chandigarh, Dehradun, Pantnagar, Garhmukteshar, Izzatnagar, Mathura and Jaipur. Total 78 students of IV Year BVSc & AH undertook the tour.



4. World Veterinary Day was celebrated on 28<sup>th</sup> April, 2018 in the main campus Bikaner. Quiz competition was organized on this occasion. Poster making and Elocution competition were







organized and a theme lecture was given by Dr. Ashok Gaur on the theme of WVD-2018. Winner students were given prizes on this day. Function was presided over by the Hon'ble Vice-Chancellor Prof. B.R. Chhipa.

5. **NSS Activities:-**A Shramdaan activity was organised in **Mahanand Talaab** under **Amritam Jalam Abhiyaan** in Collaboration with **Rajasthan Patrika** on 13 May, 2018. University officers also participated in this drive. About 35 NSS volunteers actively participated in shramdaan.



6. World Environment Day was celebrated on 5 June, 2018 on the theme **"Beat Plastic Pollution"**. Dean and Faculty Chairman addressed the students and made aware about harmful effect of plastic use. A poster competition was organised among the volunteers and a gosthie was also organised.
7. A free Rabies vaccination camp was organized by RAJUVAS and Canine Welfare Society on the occasion of World Zoonotic Day on 6th July, 2018. Total 63 dogs were vaccinated and dog owners were given new tokens. A gosthie was also held on this occasion in the department of Veterinary Clinical Medicine, CVAS, Bikaner. More than 100 people participated in this.



8. One gosthi "Saaf Niyat Sahi Vikas" was held to make aware the people about the beneficial programmes being run by the Government.
9. "Naya Bharat Hum Karke Rahenge" - A three days pictorial exhibition was held by the Information and Communication Department, GOI on 11.07.2018.
10. A Workshop (MILAN-2018) for farmers/livestock owners, students of veterinary science, veterinarians and scientists was organized in collaboration with Directorate of Extension Education, RAJUVAS, Bikaner and National Institute of Animal Bio-Technology (NIAB) Hyderabad at RAJUVAS, Bikaner on 13th July, 2018. Smt. Surya Kanta Vyas, MLA, Soorsagar, Jodhpur, Prof. B.R. Chhipa, Hon'ble Vice-Chancellor, RAJUVAS, Bikaner, Dr. Sailesh Sharma and Dr. Jayant Hole, Senior Scientist, NIAB, Hyderabad, Dr. Ashok Kumar, Central Institute for Research on Goats (CIRG), Dr. F.C. Tuteja, NRCC, Bikaner and many other faculty members discussed and try to resolve the problems of farmers and livestock owners in various fields. In this workshop 65 farmers & livestock owners, 30 veterinary science students and 33 Veterinarians participated and were benefitted. On this occasion a publication of Directorate of Extension Education "Pashupalan-Aarthik Unnati ka Aadhar" was released.



11. International Yoga Day was celebrated on 21<sup>st</sup> June, 2018. University officers, Dean & Directors and faculty members actively participated in this programme. Fifty six NSS Volunteers and many of other students of the college participated in this event. Yoga Activities were performed under the guidance of Yoga Teacher.

12. UGC Expert Committee visited RAJUVAS on 03-04.08.2018 for its accreditation under UGC-12 B. Prof. N. C. Patel, Hon'ble Vice Chancellor of Anand Agricultural University, Anand, Gujrat was the Chairman of the four member expert committee. Prof. P. D. Juyal, Vice-Chancellor of Nanaji Deshmukh Veterinary University, Jabalpur and Prof. G. K. Singh, Dean, Veterinary College, Pantnagar were the other expert members along with Smt. Mamta R. Agarwal, Joint Secretary, UGC was the member Secretary. They visited all the Units and Departments of RAJUVAS at Bikaner and praised unanimously the efforts of RAJUVAS being done for the betterment of teaching, research and extension areas of Veterinary and Animal Husbandry sector. The Expert Committee also interacted with students, parents, non-teaching staff and teaching faculty separately to get feedback from them about the University. The Expert Committee appreciated the University for its Initiatives in E-Governance.



13. Prof. Vishnu Sharma took over the charge of Vice Chancellor RAJUVAS from Prof. B.R. Chhipa on 09.08.2018. Prof. Vishnu Sharma, Hon'ble Vice Chancellor has been appointed for a period of three Years by the Raj Bhawan. Earlier he was heading



Post Graduate Institute of Veterinary Education and Research, Jaipur as Dean from last more than five years.

14. Welcome Ceremony of Prof. (Dr.) Vishnu Sharma, Hon'ble Vice Chancellor, RAJUVAS, Bikaner was organized on 09<sup>th</sup> August, 2018 at Veterinary Auditorium, Bikaner. All Dean, Directors, teaching and non-teaching staffs and students welcomed him with garlands. Hon'ble Vice Chancellor thanked all for their love and affection and emphasized on the human qualities like honesty, simplicity and transparency in work during his address. He also advised everyone to acquire new knowledge and skills regularly to solve the problems of livestock owners.



15. 72<sup>nd</sup> Independence Day was celebrated with full fervour of patriotism in the main campus of RAJUVAS at Bikaner. Hon'ble Vice-Chancellor Prof. Vishnu Sharma hoisted the tri colour. A short cultural programme was presented by the students, faculty members and their family members. Total 31 staff members were felicitated on this occasion for their outstanding contribution in the field of teaching, research and extension. Merit holder students were felicitated with a certificate and books of reputed writers to give their life a direction. After this a plantation drive was held in collaboration of Rajasthan Patrika under their "Hariyalo Rajasthan" programme. Distinguished guest from Bikaner district, large number of residents and staff members participated in this.

16. A Plantation drive was organised on the occasion of Independence Day on 15<sup>th</sup> August, 2018. Hon'ble Vice-Chancellor, RAJUVAS Prof. (Dr.) Vishnu Sharma inaugurated the drive by planting the saplings. A large no. of NSS volunteers, staff



members actively participated in the drive. About 50 saplings were planted in the drive.

17. Hon'ble Vice Chancellor Prof. Vishnu Sharma took a meeting of All Dean and Directors of the University on 20.08.2018 and discussed the directives by OSD to Governor, Raj Bhawan given via Video Conferencing held by 20.08.2018. He also discussed the progress of all Units of the University and given directions for betterment of the University.



18. Birth Anniversary of former Prime Minister Late. Sri Rajiv Gandhi was celebrated as Sadbhavana Diwas on 20 th August, 2018 at CVAS, Bikaner. All teaching and non-teaching staffs and students took Sadbhavana Oath on this occasion.
19. Student Election was held on 31 st August, 2018. 79.51 % voters casted their votes in favour of candidates of various portfolios of Students Union and Veterinary Students Associations of three constituent colleges. Elections were held in peaceful manner.
20. A quiz competition was organized by the Virbac Animal Health India Pvt. Ltd. amongst the Fourth and Final year students on the topic of "Treatment art of Mastitis" on 09.05.2018. Prizes were given to the winner students by Sh. Gordhan Raika, Chairman, Rajasthan State Animal Welfare Board on 06.09.2018.
21. Result of students' election was declared on 11.09.2018 and the oath was taken by elected office bearers of SU & VSA in presence of Hon'ble Vice Chancellor and other Dean Directors on 11.09.2018.
22. Institute level Anti Ragging Committee meeting was held on 12.09.2018 as per the guide lines issued by the UGC & Raj Bhawan. Members from district

administration, police, NGO, print media representative, electronic media representative, students and parents participated in the meeting and expressed their views to prevent the incidents of ragging in the campus.

23. Swachhata Pakhwada was held in the RAJUVAS under Swachh Bharat Mission. Hon'ble Vice-Chancellor Prof. Vishnu Sharma also participated in the mega event on 15.09.2018 in cleanliness drive held in the TVCC at Bikaner. Various activities were held during this period like awareness rally, drawing competition, quiz competition, cleanliness programmes in the campus, elocution & essay competition for students etc. Officials of Field Out Reach Bureau, Ministry of Information and Broadcast also held programmes during this on 24.09.2018.



24. Deputy Director General of ICAR, New Delhi Dr. N. S. Rathore addressed the faculty members of RAJUVAS on 17.09.2018 in a meeting held at VC Secretariat. He motivated the faculty members to submit projects under various plan of ICAR. Hon'ble Vice Chancellor Prof. Vishnu Sharma presented brief overview of the University on this occasion.
25. On the occasion of 150th Birth Anniversary of Mahatma Gandhi, different programmes were organized on 2nd October, 2018. A lecture was given by Hon'ble Vice Chancellor on the topic of Mahatma Gandhi policies and philosophy and appealed everyone in his address to incorporate Gandhiji's thoughts in their life. An essay and extempore competitions were held for students on this occasion. All teaching and non-teaching staffs and students participated in a Cleanliness Drive organized on this occasion.

26. World Rabies Day was celebrated on 28.09.2018 at CVAS, Bikaner. A one day free rabies vaccination camp was organised on this day. Total 73 dogs were vaccinated. Pet owners were sensitised about the Rabies.



27. Surgical Strike Day was celebrated at CVAS, Bikaner on 29.09.2018. A special NCC parade was held on this occasion. Retd. Col. O. S. Bhati and Retd. VSM M. S. Shekhawat were guests on this day and they motivated the students and NCC cadets for joining the Indian Army. A rally was organised by the cadets of 1st Raj R&V NCC Cadets on the occasion "Prakram Parv" First anniversary of Surgical Strike done by Indian Army.

28. A review meeting of all DDOs/ PIs was held on 05.10.2018 under chairmanship of Hon'ble Vice Chancellor Prof. Vishnu Sharma. Physical and financial targets were reviewed in this meeting for all the schemes and projects running in the university.



29. A lecture on Legal awareness about the public oriented services of Lok Adalat's was held on 06.10.2018 for the students and faculty members. Chief speaker was Dr. Kamal Dutt who is president

of permanent Lok Adalat at Bikaner.

30. Two days' workshop was organized in the Department of Veterinary Surgery and Radiology along with Labotek Microscope India (Pvt.) Ltd. On the topic of Diagnosis and treatment of dental diseases in animals on 16-17 Oct., 2018. 30 faculty members and post graduate students participated in this workshop.



31. "RUN FOR UNITY" was held on 31.10.2018 on the occasion of Rastriya Ekta Diwas. A large number of students, NSS volunteers, NCC cadets and faculty members participated in the run. Dean & Faculty chairman Prof. Tribhuwan Sharma put on light towards the contribution of Sardar Vallabh Bhai Patel in the present form of country. Students also put their views about Sardar Patel and take oath also on this occasion.

32. 27 Final year students of Veterinary College Shivomoga, Karnataka visited CVAS, Bikaner on 15.11.2018 under their all India Educational tour. They praised the facilities available here for the research and treatment of animals.

33. Hon'ble Vice Chancellor Prof. (Dr.) Vishnu Sharma represented the country in international workshop organized by OIE-World Organisation for Animal Health at Tokyo, Japan on 19-20.11.2018. Prof. Vishnu Sharma was one of the four members nominated by Govt. of India for this workshop.





34. Faculty members of Department of Surgery & Radiology participated in 42 annual convention of Indian Society for Veterinary Surgery at Navsari, Gujarat. Research paper of Dr. Suresh Jhirwal was selected for Gold Medal.
35. A blood donation camp was organised in collaboration with Rajasthan State Scout Guide Union, Bikaner on 29<sup>th</sup> November, 2018. NSS volunteers were motivated by organising several lectures on importance of blood donation. About 20 NSS volunteers donated blood in the camp.



36. Agricultural Education day was celebrated on 3<sup>rd</sup> December, 2018 on the occasion of birthday of Dr. Rajendra Prasad, first Agricultural Minister of India. About 50 NSS volunteers participated in various activities like essay writing, extempore.
37. Cattle Feed Plant at Livestock Research Station, Beechwal has been started from this month. Balanced and nutritive feed will be prepared in this plant as per the latest technologies and scientific pattern.
38. Hon'ble Vice Chancellor of RAJUVAS, Bikaner Prof. (Dr.) Vishnu Sharma took over the charge of Vice Chancellor SKRAU, Bikaner as per the orders



issued by Raj Bhawan, Jaipur after the superannuation of present Vice-Chancellor of SKRAU Prof. B. R. Chippa on 19.12.2018.

39. Hon'ble Vice Chancellor of RAJUVAS Prof. (Dr.) Vishnu Sharma has been awarded as Fellow of National Academy of Veterinary Sciences (India) during the national seminar held at OUAT, Bhubneshwar on 19-20.12.2018.
40. 36<sup>th</sup> Batch Meet was held on 24-25.12.2018 of the 1994 passout batch. 35 batch mates from all over the country participated in this along with their families.



41. An exhibition was organized at Lovely Professional University, Phagwara, Punjab during 106<sup>th</sup> Indian Science Congress (ISC) "Pride of India Expo" from 3-7 January, 2019 on the theme of Future India- Science and Technology. The Mega Expo was inaugurated by Prime Minister Sh. Narendra Modi. Many dignitaries visited the stall and discussed about the various technologies developed by RAJUVAS, Bikaner. RAJUVAS has received an award in Special Recognition category.
42. Interclass sports tournament "SPIRIT-2018" was held from 16 to 22 December 2018 at CVAS, Bikaner. All the classes participated in Volleyball, Basketball, Kabbaddi, Table Tennis, Tennis,





Badminton, Athletics, Chess and Cricket games with full zeal and enthusiasm.

43. RAJUVAS Calendar 2019 was inaugurated by Hon'ble Agricultural and Animal Husbandry Minister, Govt. of Rajasthan Sh. Lalchand Kataria on 30.12.2018 along with Hon'ble Vice Chancellor Prof. (Dr.) Vishnu Sharma. Monthly advisory for farmers has been included in the calendar along with the details of all units of the University.



44. 70th Republic Day was celebrated with great fervour and gaiety on 26th January, 2019 at University Campus, Bikaner. Hon'ble Vice Chancellor Prof. (Dr.) Vishnu Sharma hoisted the national flag. The whole campus came alive with spirit of patriotism. Students presented a colourful cultural programme. University awarded the meritorious students for their merit and commendable work and contribution in the progress of the University.



45. A felicitation programme was held for the prize winner NCC Cadets of 1 st Raj. R & VSqn. During the Republic Day Camp held at New Delhi. NCC Group Commander Col. Sudhanshu Sharma was the chief guest of the function. ANO of the CVAS, Bikaner Dr. Sunita Choudhary was given the rank.

46. 156<sup>th</sup> birth anniversary of Swami Vivekananda was celebrated as "राष्ट्रीय युवा दिवस" on 12<sup>th</sup> January, 2019. All Dean/ Directors along with staff members and students were present in the event and remembered Swami Vivekanandaji.



47. A free infertility and animal treatment camp was organized on 21<sup>st</sup> January, 2019 by Department of Veterinary Gynaecology, CVAS. Bikaner at Village Kalu (Lunkaransar). Total 130 animals was treated for various infertility diseases.



48. National Voters Day was celebrated on 25.01.2019 and oath for voting was taken in the presence of Hon'ble Vice Chancellor Prof. (Dr.) Vishnu Sharma by all the students and staff members present.







49. Students Union, RAJUVAS and Veterinary Students Association, CVAS, Bikaner offices were inaugurated by Dr. B. D. Kalla, Cabinet Minister, Sh. Bhanwar Singh Bhati, State Minister and Ms. Rita Choudhary on 27.01.2019.



50. A "NSS Special camp" was organised by the unit, CVAS, Bikaner during 25-31 March, 2019 at Shiv Bari village. The camp was inaugurated by Dean, CVAS, Bikaner. Cleanliness drives were organised in peripheral area of village, streets and park. NSS volunteers cleaned, collected the polythenes and other waste materials from the streets and parks. **Voters Awareness Campaign** was organised in the village to aware the voters about importance of voting. Poster competition was also organized among the various teams of NSS volunteers during the camp on theme "**Technology Addiction**". An extempore was conducted on Topic "**Role of Youth in Nation creation**". Cleanliness drives were also organised in university campus also.

51. The orientation training programme is mandatory and has been adopted as per UGC guidelines for the career advancement scheme and personal promotions with the objectives of acclimatize the faculty with advanced teaching methodology,



skill enhancement and knowledge up gradation. In addition various sub-areas regarding bio-diversity, food safety, food security, public health and hygiene and other related topics. First batch of these trainings was started from 28th March, 2019 on "Teaching Methodology" for the 33 newly recruited Assistant Professors of the University.

52. In recognition of overall contribution in development of Veterinary Science in general and Animal Nutrition in particular in Rajasthan State as well as country, the Compound Livestock Feed Manufactures Association conferred CLFMA award to Prof. Vishnu Sharma, Vice- Chancellor, RAJUVAS, Bikaner. This award was given during 60th National Symposium 2018 on GenNEXT wave: People, Technologies and Innovation for Indian Livestock Sector organized at Goa from 7-8 September, 2018.



53. Maharaja Ganga Singh trust has donated the Laparoscopic unit worth of Rs 32.00 Lacs to Surgery Department of CVAS, Bikaner for painless and less lacerations surgery for small animals. President of Maharaja Ganga Singh Trust Princess Rajyashree Kumariji and Hon'ble Vice-Chancellor, Prof. Vishnu Sharma inaugurated the Laparoscopic Unit.





54. A two days workshop on An Approach to Diagnosis and Treatment of Dental Disorders in Canines was organized under AINP-DIMSCA project of ICAR for providing hands on training for the skill development in Canine Dentistry from 22-23 February, 2019. Prof. K.M.L. Pathak, Vice-Chancellor, DUVASU, Mathura was Chief Guest and Prof. Vishnu Sharma, Vice-Chancellor, RAJUVAS presided over the function. In this training, total 30 participants were trained on different aspects of advanced dental procedures like root canal treatment, tooth extraction and various dental cosmetic procedures.



55. Horse Show was organized on 13<sup>th</sup> February, 2019 by the 1 Raj R&V SQN NCC Unit of CVAS, Bikaner. Chief Guest of the show was DDG NCC Air Commd. T.K. Sinha and Hon'ble Vice-Chancellor Prof. Vishnu Sharma. Other distinguished guests were DIG Police Dr. B.L. Meena, Group Commander NCC Col. Sudhanshu Sharma, Divisional Manager Railway Sh. A.K. Dube, ADM City Sh. A.H. Gauri and Dean, CVAS, Bikaner Prof. Rakesh Rao.



56. Forty-five students of RAJUVAS participated in 19<sup>th</sup> All India Inter Agricultural Universities Games & Sports Meet (AGRIUNISPORTS-2018-

19) organized by the Punjab Agricultural University (PAU), Ludhiana from 2-6 January, 2019.

57. The team of 23 students of University participated in the 19<sup>th</sup> All India Inter Agricultural University Youth Festival (AGRIUNIFEST-2018-19) sponsored by ICAR, New Delhi, organized by Sardar Krushinagar Dantiwada Agricultural University, Dantiwada (Gujrat) from 3-7 February, 2019.



58. Fifty female farmers of Anoopgarh Tehsil (Sri Ganganagar) visited RAJUVAS under ATMA Project through Assistant Director, Agriculture Extension, Anoopgarh on 29<sup>th</sup> August, 2018. They visited museum, live animal biodiversity model, poultry section and learned about various technologies of animal science. Fifty livestock owners from Suratgarh, Sriganganagar also visited different units of RAJUVAS including poultry, duck, rabbit farm, technology museum, cattle farm and clinic, etc. on 26<sup>th</sup> September, 2018. Dr. Devi Singh Rajput and Dr. Mahendra Tanwar, Assistant Professors supervised the visit.
59. A contingent of 10 boys and 10 girls of CVAS, Bikaner participated in the All India Veterinary Colleges Badminton, Table tennis tournament and All India Professional Quiz competition organized by CVAS, (GBPUAT), Pantnagar from 14-16 March, 2019.
60. Centre for Disaster Management Technology for Animals, RAJUVAS, Bikaner organized 10 days master training for State Disaster Response Force on Disaster Management in Animals from 30<sup>th</sup> July 2018 to 8<sup>th</sup> August 2018. Eighteen SDRF personnel participated in this training.



## College of Veterinary & Animal Science, Navania, Vallabh Nagar, Udaipur

### Introduction

It is the second constituent veterinary college of the **RAJUVAS**, which is situated in the southern region of Mewar in Udaipur district. The foundation stone of this college was laid by the Chief Minister of Rajasthan Smt. Vashundra Raje Sindhia on 15<sup>th</sup> April, 2007. This college was registered under registration No.P.14 (18) Edu.-4/2007 dated 28.5.2007 and the first batch of B.V.Sc. &A.H. was started on 10<sup>th</sup> September, 2007. The two year Animal Husbandry Diploma Programme, M.V.Sc. and Ph.D. programme have also been started at the College from academic year



2009-10 and 2014-15 on self-finance basis, respectively. College has been included in the first schedule of Indian Veterinary Council act 1984.

### Enrolment during the year 2018-19

B.V.Sc. & A.H.					Total	M.V.Sc.		Total	Ph.D.			Total	2-years Diploma in Animal Husbandry		Total	Grand Total
I	II	III	IV	V		I	II		I	II	III		I	II		
95	65	61	85	88	394	20	25	45	2	5	20	27	53	49	102	568

### Scholarship and Endowments

Name of scholarship/allowance	No. of recipient
Post metric scholarship	36

### Detail about Exhibition/Fairs/Seminars/Conference organized during 2018-19

Name of Event	Objective	Duration	Implementing Agency	Venue	Sponsorship	Expenditure Incurred	No. of farmers participated/ visited
VI Annual Convention of Society for Veterinary Science & Biotechnology and National Symposium on "Newer Concepts and Approaches for Improvement in Animal Health and Production"	To provide a platform for scientific interaction and sharing of newer concept and techniques in the area of Veterinary sciences	2 days (13-14 December 2018)	RAJUVAS & Society for Veterinary Science & Biotechnology	CVAS, Navania Udaipur	-	8.10 lakh	250



## Detail of the training programme organized (2018-19): Only one day Training cum Visit

S. No.	Date	Topic of training programme	Sponsoring agency	No. of beneficiary		
				Male	Female	Total
1.	April 2018	Dairy & Vermi compost, Goat Farming, Visit of Animal Farm.	ICICI-RSETI, Udaipur.	31	30	61
2.	July 2018	Dairy & Vermi compost, Goat Farming, Visit of Animal Farm.	ICICI-RSETI, Udaipur.	-	206	206
3.	Aug. 2018	Dairy & Vermi compost, Goat Farming, Visit of Animal Farm.	ICICI-RSETI, Udaipur.	35	266	301
4.	Sept. 2018	Dairy & Vermi compost, Goat Farming, Visit of Animal Farm.	ICICI-RSETI, Udaipur., AG. & Watershed Department.	77	166	243
5.	Oct. 2018	Dairy & Vermi compost, Goat Farming, Visit of Animal Farm.	ICICI-RSETI, Udaipur., Agriculture University, Jobner.	29	127	156
6.	Nov. 2018	Dairy & Vermi compost, Goat Farming, Visit of Animal Farm.	ICICI-RSETI, Udaipur.	45	115	160
7.	Dec. 2018	Dairy & Vermi compost, Goat Farming, Visit of Animal Farm.	Ag. Dept. & ICICI-RSETI, Udaipur.	-	542	542
8.	Jan. 2019	Dairy & Vermi compost, Goat Farming, Visit of Animal Farm.	Animal Husbandry Dept. & ICICI-RSETI, Udaipur.	166	313	479
9.	Feb. 2019	Dairy & Vermi compost, Goat Farming, Visit of Animal Farm.	Animal Husbandry Dept. & ICICI-RSETI, Udaipur.	72	228	300
10.	March 2019	Dairy & Vermi compost, Goat Farming, Visit of Animal Farm.	ICICI-RSETI, Udaipur.	-	30	30
11.	12/10/2019	One day seminar on "Processing of milk product"	R.K. Sansthan, Sawaimadhopur	40	-	40
12.	10/12/2019 to 16/12/2019	Six days skill development training programme on "Processing of Milk & Food products" for milk and food entrepreneurs	R.K. Sansthan, Sawaimadhopur	25	-	25
	<b>Grand Total</b>	<b>50 Visit, 26 Lectures</b>		<b>455</b>	<b>2023</b>	<b>2478</b>

## Seminars/ Symposia/Workshops attended by faculty (2018-19):

1. Dr. Kamal Purohit, Dr. Anita Rathore, Dr. Goverdhan Singh, Dr. Mamta Kumari, Dr. Sandhya Morwal, Dr. Naresh Singh Kuntal, Dr. Surendra Singh Nirwan, Dr. Sanweer Khatoon, Dr. Hakim Manzer Alam, Dr. Devendra Singh, Dr. Gajendra Singh, Dr. Nishant Parmar, Dr. Dinesh Manoharrao Chavhan, Dr. Ramesh Chand Jat, Dr. M. L. Gurjar, Dr. M. S. Meel, Dr. Hina Ashraf Waiz, Dr. Sudeep Solanki, Dr. Rajesh Singathia, Dr. Durga Gurjarm, Dr. Shantanu Kumar Kuldeep, Dr. Tikam Goyal, Dr. Rohitash Kumar, Dr. Shiv Kumar Sharma, Dr. Monika Joshi, Dr. Tarunpreet, Dr. Vikash Sharma, Dr. Pradeep Kumar Godwal, Dr. Kavita Shende, Dr. Sunil Arora, Dr. Pradeep

Kumar, Dr. Abhishek Choudhary and Dr. Rahul Swarnkar was attended for VI Annual Convention of Society for Veterinary Science & Biotechnology and National Symposium on "Newer Concepts and Approaches for Improvement in Animal Health and Production" organized by Department of Veterinary Medicine, College of Veterinary and Animal Science, Navania, Udaipur from 13-14 December, 2018.

2. Dr. Anita Rathore, Dr. Goverdhan Singh and Dr. Naresh Singh Kuntal was attended for XXXV Annual National Symposium on "Recent Advances in Veterinary Pathology and Diagnosis for Sustainable Livestock and Poultry Production" Organised by Department of Veterinary Pathology at Dantiwada, Gujarat from 22-24 October, 2018.



3. Dr. Sandhya Morwal was attended for one day National Seminar on "Intellectual's Social Responsibility" organized by: Institute Of Self Reliance, 103/B, Hig, Bda Duplex, Baramunda, Bhubaneswar-751003, Odisha, India, 1<sup>st</sup> December 2018
4. Dr. Sandhya Morwal, Dr. Saurabh Singh Singhal, Dr. Rajesh Singathia, Dr. Shiv Kumar Sharma, Dr. Monika Joshi and Dr Bhagat Singh Saini were attended for 37<sup>th</sup> Annual convention of Indian Society for veterinary medicine .National Symposium on Holistic Approach in veterinary medicine for better animal health to meet challenges of one health mission. Organized by Department of clinical veterinary medicine, ethics and Jurisprudence, college of veterinary and animal science, (RAJUVAS) on 1-3 February 2019.
5. Dr. Naresh Singh Kuntal was attended for VII<sup>th</sup> Annual Convention of SVSBT First Alumni Meet and National Seminar on "Biotechnological Advances for improving Animal Health and Productivity" Organised by Department of Animal Biotechnology College of Veterinary Science and A. H. Navsari Agricultural University Navsari - 396 450, Gujarat in collaboration with Vanbandhu Veterinary College Alumni Association and Society for Veterinary Science and Biotechnology (SVSBT), Indore on 5-6 December, 2019.
6. Dr. Sanweer Khatoon was attended for National Conference On Tribal Health In Relation To Vector Borne And Parasitic Diseases: Addressing Multi Sectorial Actions At Udaipur By Zoology Department MISU From 17-18 December 2018. and also attended XXVIII National Congress of Veterinary Parasitology and National Symposium On Novel Technologies And Strategies For Sustainable Control Of Parasitic Diseases Of Livestock, Poultry And Public Health Significance From January 28-30, 2019 At Tirupati
7. Dr. Devendra Singh, Dr. Abhishek Choudhary and Dr. Rahul Swarnkar were attended XVIII Annual Conference of "Indian Society of Veterinary Pharmacology and Toxicology" And National Symposium On "One Health: Veterinary Pharmacology and Toxicology Approaches" At College Of Veterinary Science and Animal Husbandry, Anand Agricultural University Anand (Gujrat) On 5-7 December 2018.
8. Dr. Balwant Meshram was attended for Indian Association of Veterinary Anatomists organized IAVA Annual Conference 2019 and National Symposium on Advances in Anatomy as it Applies to Clinical Sciences at Veterinary College, Hebbal, Bengaluru during 28-30 Nov-2019
9. Dr. Dinesh Manoharrao Chavhan and Dr. Ramesh Chand Jat were attended for 8th Conference of Indian Meat Science Association, (IMSACON-8) and International symposium on "Technological innovations in muscle food processing for nutritional security, quality and safety" and organized by department of LPT, Veterinary College, WBUAFS, Kolkata on 22th-24th Nov., 2018.
10. Dr. Arun Kumar was attended for one day workshop on livestock farmers -Scientist interaction (MILAN-2018) organized by DEE, RAJUVAS, Bikaner (Rajasthan) on 13th July 2018
11. Dr. M. L. Gurjar was attended National Conference on Smallholders Livestock Producers' in India: Opportunities and Challenges and 25 Annual Convention of Indian Society of Animal Production and Management Organised by Sardar krushinagar Dantiwada Agricultural University, Sardar krushinagar District Banaskantha, Gujarat on 11 - 13 April 2018.
12. Dr. M. S. Meel was attended for XI Bienial Conference of Animal Nutrition Association, on reorienting animal nutrition research in perspective of farmer's welfare. ANACON -18, Patna
13. Dr. Hina Ashraf Waiz was attended for National conference on "Small holder livestock producers in India opportunity and challenges" & 25th Annual Convention of Indian Society of Animal Production and Management Organised by Department of Livestock Production & Management, Sardar Krushinagar Agriculture University, Dantiwara, Gujarat, on 11-13th April, 2018.
14. Dr. Hina Ashraf Waiz and Dr. M. L. Gurjar was attended for National conference on "Innovations

- in Animal Production for Sustainability and Doubling farmer's income" & XXVI & Annual Convention of Indian Society of Animal Production and Management Organized by Department of Livestock Production & Management, Kerala Veterinary & Animal Science University, Mannuthy, 23-25th January 2019.
15. Dr. R.K. Khinchi was attended for XVI Annual Convention of ISACP and National Symposium on "Exploring New Horizon in Canine Practice and Welfare", organized by Khalsa College of Veterinary and Animal Sciences, Amritsar, Punjab on 26-28 February 2019.
  16. Dr. Dinesh Jhamb was attended for XXXIV Annual convention of ISSAR national symposium (3 day) on "Productivity enhancement through augmenting reproductive efficiency of livestock for sustainable rural economy" by Anand Gujarat from 28-30 December 2018. and Training on advances in Equine health and management organized at National research center on equines on 28 February 2019.
  17. Dr. Tikam Goyal was attended for IX National Extension Education Congress on 'Climate Smart Agricultural Technologies: Innovations and Interventions' by CAPHET, Ranipool, Sikkim from 15-17 November, 2018.
  18. Dr. Vikash Sharma was attended for XXVII SAPICON-218 & National symposium on "Augmentation of Animal Productivity under changing Socio-economic Scenario" Organized by Animal Physiology division of ICAR-NDRI, Karnal on 27-28 November, 2018.
- Winter/Summer School Training Attended by Faculty (2018-19):**
1. Dr. Anita Rathore, Dr. Goverdhan Singh, Dr. R.K. Khinchi, Dr. Tikam Goyal, Dr. Rajesh Singathia and Dr. Sunil Arora was attended for 21 Days ICAR Sponsored Summer School on "Skill Development through Technological Interventions for Doubling the Farmers Income" from 30<sup>th</sup> July to 19<sup>th</sup> August, 2018 organized by Directorate of Research, Rajasthan college of Agriculture, MPUAT, Udaipur.
  2. Dr. Mamta Kumari and Dr. Mitesh Gaur was attended for 21 Days ICAR Sponsored Summer School on "Skill Development through Technological Interventions for Doubling the Farmers Income" from 7-27 September, 2018 organized by Directorate of Research, Rajasthan college of Agriculture, MPUAT, Udaipur.
  3. Dr. Balwant Meshram was attended for 21 days CAFT Training sponsored by ICAR at Centre for Advanced Faculty Training on Gene Mining Approaches and In Silico Functional Analysis ICAR-CIFE, Mumbai 3-23 December 2018.
  4. Dr. Arun Kumar was attended for Summer School training on "Livestock Products Quality and Safety assurance by advanced microbiological and spectrometry approaches" organized by CIRG, Makhdoom, Mathura from 31<sup>st</sup> July to 28<sup>th</sup> August, 2018.



## Award received during 2018-19

S. No.	Name of faculty	Name of award –details	Awarding authority
1.	Dr. Sanweer Khatoon	Felicitation on 15 <sup>th</sup> August 2018 for successful organization of conference	RAJUVAS
		National Appreciation Award on 14 <sup>th</sup> February 2018 for successful conference organization	IAAVP
2.	Dr. Devendra Singh	Excellence in research Award	Science & tech society for integrated rural improvement, Telangana
3.	Dr. Hina Ashraf Waiz	Best young faculty award (July 2018)	Education Expo, Research Wing for Excellence in Professional Education & 6 <sup>th</sup> Faculty Branding Awards, Kolkata, India.
		Best research paper award (Dec.2018)	VI Annual Convention of Society for Veterinary Science & Biotechnology and National Seminar held at CVAS, Navania, Udaipur, Rajasthan (RAJUVAS)
		Award for excellence in research ( March 2019)	4 <sup>th</sup> south Asian Education Awards, 2019, Education Expo, Research wing for Excellence in Professional Education & Industry, Hyderabad, India
4.	Dr. Dinesh Manoharrao Chavhan	Felicitated on Independence Day (15 <sup>th</sup> August, 2018) at RAJUVAS, Bikaner for outstanding contribution (Started milk parlour for sell of milk products).	RAJUVAS, Bikaner
5.	Dr. Sandhya Morwal	Certificate of Excellence as a Bharat Vikas Award	Institute of Self Reliance on 1 <sup>st</sup> December 2018 at Bhubaneswar Odisha.
		Best Poster Presentation Award	National Seminar on Newer Concept and Approaches for Improvement in Animal Health and Production on 13-14 <sup>th</sup> December, 2018 at College of Veterinary & Animal Science, Navania, Udaipur, RAJUVAS- Bikaner.
		The award of Young Women 2019 in Veterinary and Animal Science.	Venus International Foundation, Estd. U/s 3 of the Indian trust Act, 1882, ISO 9001:2008 Certified, 2 <sup>nd</sup> March 2019, Chennai-600088, Tamil Nadu, India.
6.	Dr. Monika Joshi	Best Ph.D. Thesis award	International Seminar on Modern Agriculture Approaches in 21 <sup>st</sup> Century at University of Lucknow
		Distinguished Woman in Veterinary and Animal Sciences (Animal Nutrition)	5 <sup>th</sup> International Woman Award VIWA. Chennai, India
		Best Paper Award	V1 Annual convention of Society for Veterinary Science & Biotechnology (SVSBT) and National Symposium on Newer Concept and Approaches for Improvement in Animal Health and Production. Organized by CVAS, Navania, during 13-14 Dec.2018.
		Official Spotlight Award (Scientist category), 8 <sup>th</sup> Science and Technology Awards 2019	Bangalore by Education Expo EET CRS Research
7.	Dr. Mamta Kumari	Received Young Faculty Award in veterinary and animal sciences for the contribution and achievement in the field of veterinary pathology	Center for advanced research and design, Venus International Foundation, Chennai
		Received Young Scientist Award for the contribution and achievement in the field of veterinary pathology	Centre for advanced research and design, Venus International Foundation, Chennai

## Research Paper Published in Journals (2018-19):

1. Abhishek Choudhary, Shweta Anand, Sunil Boghia, Rahul Swarnkar and Devendra Singh. (2018) Efficacy of Carica Papaya against Thiocloprid induced Histoarchitectural changes in Brain and Spleen of Rats. Journal of Veterinary Pharmacology and Toxicology. Volume 17(2)
2. Anirudh Khatri, Anita Rathore, C.P. Jain. (2019) Investigation of phytoconstituents along with total phenolic and flavonoids in methanolic and aqueous extract of bark of *Prosopis cineraria* (L.) Druce. International Journals of Chemical Studies. 7(3):4261-4264.
3. Anita Rathore, Hemant Dadhich, Sunita Rani. (2018) Occurrence and Pathomorphology of Follicular Cyst in the female genital tract of cattle. Ruminant Science. 7(1):149-150.
4. Anita Rathore, Rohitash Dadhich, Kamal Purohit, S.K. Sharma, C.S. Vaishnava, Bincy Joseph, Anirudh Khatri. (2019) Phytochemical screening and total phenolic and flavonoid content in leaves of *Prosopis cineraria* (L.) Druce. International Journals of Chemical Studies. 7(3): 1853-1855.
5. Anita Rathore, Rohitash Dadhich, Kamal Purohit, Shiv Kumar Sharma, Chandra Shekhar Vaishnava, Bincy Joseph, Anirudh Khatri. (2019) Impact of *Prosopis cineraria* (L.) Druce leaves on hematological parameters against induced sub-acute toxicity of *Parthenium hysterophorus* L. in wister albino rats. International Journals of Chemical Studies. 7(1): 294-296.
6. Aziz, P.R., Sharma, S.K., Kuldeep, S. K., Yadav, H. S. and Kuntal N. (2019). Hemato-biochemical and electrolyte alterations in a flock of goats affected with peste des petits ruminants. *The Pharma Innovation Journal*. 8(4): 318-321.
7. Choudhary, Shweta, Gurjar, M. L., Choudhary, Vikas, Meel, Padma, and Gangulay, Subha. (2018). Study on Cattle Feeding Practices in Relationship to Herd Size in Non-Tribal Area of Udaipur District of Rajasthan. *International Journal of Livestock Research*. Vol. 8 (10): 49-53.
8. Devendra Saran, Balwant Meshram, Hemant Joshi, Gajendra Singh and Shashi Kumar (2019) Gross Morphological Studies on the Digestive System of Guinea Fowl (*Numida meleagris*) *International Journal of Livestock Research* 9 (02): 266-273.
9. Dinesh Jhamb Satish, Surendar Singh Nirwan, Devender Kumar, Mitesh Gaur (2019). A rare case of hydroallantois in buffalo and Arthrogryposis, evisceration of abdominal content from umbilicus in a calf: A case report. *Journal of Entomology and Zoology Studies*. 7(1)
10. Goverdhan Singh, Rohitash Dadhich, Kamal Purohit, Mamta Kumari, Manisha Mehra, Bincy Joseph, S.K. Sharma & C.S. Vaishnava. (2019) Pathomorphological & Haemato-biochemical Studies on Oral Tumors in Digestive tract of Sheep (*Ovis aries*) in Southern Region of Rajasthan. *International journal of chemical studies*: 7 (2) 1581-1583.
11. Harpreet singh, Pratiksha mishra, Devendra singh, Gazalpreet kaur and Pushkar Sharma. (2018) Aquatic Birds Diversity of Different Water Bodies of Lake City (India). *International Journal of Current Microbiology and Applied Sciences*. Special issue-7: 3206-3211
12. Harpreet Singh, U.S. Suradkar, D.M. Chavhan, Ramesh chand Jat, Dhanraj Meena. (2018) Production of chicken nuggets with incorporation of Indian gooseberry extract and powder. *Int. J. Curr. Microbiolo. App. Sci.* Special issue-7: 5147-5152.
13. Harshita Bhumra, Tikam C. Goyal and N.K. Punjabi (2018). Knowledge of Dairy Farm Women Regarding Scientific Management of Dairy Animals in Udaipur District. *Indian Journal of Extension Education and Rural Development* 26: 82-88.
14. Hemant Joshi and Balwant Meshram (2018) Gross, Histomorphological and Histochemical Studies of the Cloaca in White Leghorn Fowl (*Gallus domesticus domesticus*): *Ind Jou of Veterinary Anatomy* 30 (2): 134-136.
15. Hina Ashraf Waiz , L. Gautam , R.K. Nagda, M. Sharma (2018). Study of Female Reproductive Performance of Sirohi Goat managed under farm and field cluster in Southern Rajasthan. *International Journal of Current Microbiology and Applied Sciences*. 7 (6): 885-890.



16. Hina Ashraf Waiz, L. Gautam, S. Ashraf (2019). Appraisal of growth curve in Sirohi goat using non-linear growth curve models. *Tropical Animal Health and Production*. 51: 1135-1140.
17. Hina Ashraf Waiz, L. Gautam, R.K. Nagda, M. Sharma. (2018). Growth performance of Sirohi goat under farm and field conditions in Southern Rajasthan. *International Journal of Livestock Research*. 8(6):43-53.
18. Hiteshwar Singh Yadav, Shiv Kumar Sharma, Naresh Singh Kuntal, Peer Rayees Aziz and Shantanu Kumar Kuldeep. 2019. A study on babesiosis in HF cattle. *Journal of Entomology and Zoology Studies*. 7(3): 624-626
19. Kamal Purohit, Goverdhan Singh, Anita Rathore, Mamta Kumari, Naresh Singh Kuntal and Pravin Purohit. 2018. Trichobezoars in Sirohi Goat – A Case Report. *Int. J. Curr. Microbiol. App. Sci.* 7(11): 721-724.
20. Kamal Purohit, Goverdhan Singh, Sanweer Khatoon, Anita Rathore, Sudeep Solanki, Naresh Singh Kuntal and Ajay Kumar. (2019) Gastric Myiasis by Oestrus Ovis Larvae in a Sirohi Goat: A Case Report. *The Indian Veterinary Journal*. 96(4): 65-66.
21. Kuldeep Kumar, S.K. Sharma, Parmjeet and Monika Joshi. (2018) Antibioqram against Bacterial Pathogens Associated with Subclinical Mastitis in Surti Buffaloes. *Indian Journal of Veterinary Medicine*. Vol. 38 (1&2), pp 46-48.
22. Kumar, Sunil and Gurjar, M. L. (2018). Effect of dietary supplementation of cinnamon (*Cinnamomum cassia*) powder and synbiotic on haematological and serum biochemical parameters of broiler chicks. *International Journal of Chemical Studies*. Vol. 6(3): 287-291.
23. Kumar, Sunil and Gurjar, M. L., Vaishnava Chandra Shekher, Sharma Mukesh Chand, Parashar Mukesh Chand and Nagda Rajendra Kumar. (2018). Effect of Dietary Supplementation of Cinnamon (*Cinnamomum cassia*) Powder and Synbiotic as Alternative to Antibiotic Growth Promoter on Economic Efficiency of Broiler Chicks. *International Journal of Livestock Research* Vol. 8(10): 298-306.
24. Lokesh Gautam, H. A. Waiz, R.K. Nagda (2018). Evaluation of the reproductive characteristics of Sirohi goats from Udaipur India. *Journal of Entomology and Zoology Studies*. 6(3):13-17.
25. Lokesh Gautam, V. Kumar, H. A. Waiz, R.K. Nagda (2018). Estimation of growth curve parameters using non-linear growth curve models in Sheep. *International Journal of Livestock Research*. 8(9):104-113.
26. Mahendra Kumar Meena, Monika Joshi, Uma Ram and Manish Kumawat. (2018) Effect of Feeding Garlic (*Allium sativum*) and Probiotic (*Saccharomyces cerevisiae*) alone or in combination with ground nut straw based complete food on Rumen Parameters in Sonadi Sheep. *Ruminant Science*. Vol. 7 No. 2 pp 233-236.
27. Manju, R. K. Dhuria, R. K. Khinchi, Padma Meel and M. S. Meel (2019). Effect of Herbs as Feed Additive on Rumen Fermentation Patterns and Haemato-Biochemical Parameters in Marwari Rams Fed Wheat Straw Based Complete Feed. *International Journal of Livestock and Research*, Vol 9 (2): 32-40.
28. Manju, R. K. Dhuria, R. K. Khinchi, Padma Meel and M. S. Meel (2019). Evaluation of In vitro Gas Production and Digestibility of Wheat Straw Based Complete Feed Supplemented With Different Levels of Herbs in Rumen Liquor of Marwari Sheep. *International Journal of Livestock and Research*, Vol 9(1): 80-85.
29. M. S. Meel, R.S. Pal, G. Mishra and M. Kajla (2018). Theileriosis in Tharparkar Calves and its Therapeutic Management – Case Study. *Int. J. Curr. Microbiol. App. Sci.* (2018) 7(8): 3981-3983.
30. Meel, Padma, Gurjar M. L., Nagda, R.K., Sharma, M.C. Goutam, Lokesh and Manju (2018). Growth Performance of Sirohi Goat Kids Fed Different Levels of Moringaolifera Leaves. *Journal of Entomology and Zoology Studies*. Vol. 6(4): 786-791.
31. Meel, Padma, Gurjar, M. L., Nagda, R.K., Sharma, M.C. Goutam, Lokesh and Manju. (2018). Effect of Moringaolifera Leaves Feeding on hemato – biochemical profile of Sirohi Goat Kids. *Journal of Entomology and Zoology Studies*. Vol. 6(5): 41-48.
32. Meel, Padma, Gurjar, M. L. Nagda, R.K., Choudhary, Shweta, Manju and Meel

- Mahendra.(2019). Effect of Feeding different levels of *Moringa olifera* leaves on digestibility of nutrients in Sirohi Goat Kids. *International Journal of Chemical Studies*. Vol.7(2): 1404-1408
33. Milind M., Joseph B., Sharma D.K., Gaurav A., Sharma M.C., Prakash C. 2018. Status of Peste des petits Ruminants in Small Ruminants of Semi-Arid Regions of Rajasthan. *Int. J. Curr. Microbiol. App. Sci.* 7(12): xx-xx. doi: <https://doi.org/10.20546/ijcmas.2018.712.xx>
  34. Mitesh Gaur, G N Purohit (2018) Ultrasonographic Fetometry and Fetal Structures during Early Pregnancy in Surti Buffaloes. *The Indian Journal of Veterinary Science and Biotechnology*. 14 (2).
  35. Mitesh Gaur, G N Purohit (2019). Follicular dynamics and color Doppler vascularity evaluations of follicles and corpus luteum in relation to plasma progesterone during the estrous cycle of Surti buffaloes. *Reproduction in Domestic Animals*. 54
  36. Monika Joshi, C.S. Vaishnav and S.K. Sharma. (2018) Economical Analysis of Feeding Hydroponics Maize Fodder With and Without Supplementation of Probiotic (*Saccharomyces Cerevisiae*) in Gir Calves. *International Journal of Science, Environment and Technology* Vol.7 (3), pp 809-814.
  37. Monika Joshi, S.K. Sharma and C.S. Vaishnav. (2018) Feeding of Hydroponics Maize Fodder Supplemented with Probiotic in Gir Calves. *Indian Veterinary Journal*. Vol. 95(11) pp 22-25.
  38. Mordia, Anil, Sharma, M.C., Gurjar. M .L .and Nagda, R.K.(2018). Adoption of Scientific Breeding Practices of Goat Owners in Chittorgarh District of Rajasthan. *International Journal of Science and Research*. Vol.7(7): 390-392.
  39. Mordia, Anil, Sharma, M.C., Gurjar. M .L .and Nagda, R.K.(2018). Existing Breeding and Feeding Practices of Goat in Chittorgarh District of Rajasthan. *Journal of Ruminant Science*. Vol.7(2): 297-300.
  40. Naresh Singh Kuntal and Ajay Kumar. 2019. Gastric Myiasis by *Oestrus Ovis* Larvae in a Sirohi Goat: A Case Report. *The Indian Veterinary Journal*. 96 (04): 65 – 66.
  41. Naresh Singh Kuntal, Shiv Kumar Sharma, Hiteshwar Singh Yadav, Shantanu Kumar Kuldeep and Peer Rayees Aziz. 2019. Diagnostico-therapeutic management of theileriosis affected cross-bred cattle. *Journal of Entomology and Zoology Studies*. 7(3): 510-512.
  42. P. Singh, S. Srivastava, V.B. Singh, Pushkar Sharma and Devendra singh. (2018) Ginger (*zingiber officinale*): A Nobel Herbal Remedy. *International journal of current microbiology and applied sciences*. Special issue-7: 4065-4077
  43. Pooniya, R. Jhamb, DK, Saini, R, Kumar, Satveer and Sharma, SK One stage surgical management of third degree recto-vaginal laceration in mares: a report of two cases (2019).. *Ind. J of Vet. Sci. and Biotech*. 14(4). Apr-June 2016. pp 59-62.
  44. PR Aziz, S K Sharma, D Goklaney, S Morwal, R Khinchi, Tarunpreet and IM Harizan (2019). Molecular diagnosis of sub-clinical babesia infection in cattle by PCR, *Journal of Entomology and Zoology Studies*, Vol. 7(2): 1075-1077.
  45. Pratiksha Mishra and Balwant Meshram (2019) Gross, Histomorphological, Histochemical and Ultrastructural Studies of Pecten Oculi in Guinea Fowl (*Numida Meleagris*) *Archiv Zool Stud* 2019, 2: 009, 1-11
  46. Pratiksha Mishra and Balwant Meshram (2019) Scientific Perspective on Morphological Feature of Pecten Oculi and Their Functional Principles on Apparatus of Vision in Guinea Fowl (*Numida Meleagris*) *Birds. Int. J. Adv. Res.* 7(4), 1061-1079
  47. R. K. Khinchi, S K Sharma, Deepika Goklaney, R K Dhuria, Sunanda Sharma, Mukesh Parashar, Sandhya Morwal and Manju (2019). Superficial pyoderma in canines in southern part of Rajasthan- A detailed epidemiological study, *International Journal of Chemical Studies*, Vol. 7(3): 2737-2740.
  48. R. K. Khinchi, S K Sharma, Deepika Goklaney, Sandhya Morwal and Manju (2019). Haemato-biochemical alterations in dogs affected with superficial pyoderma, *International Journal of Current Microbiology and Applied Sciences*, Vol. 8(5): 1759-1763.
  49. Rabindra Kumar, SK Ravi, Sandeep Dholpuria, GN Purohit, Munesh Kumar Pushp, Sudeep Solanki,

- SubhaGanguly and Chandra Pratap Singh (2018) "Additive effects of alph-tocopherol, Pentoxifylline and Taurine on post thaw semen Poitou donkeys" Journal of Entomology & Zoology studies: Vol 69(10) 227-229
50. Rahul Swarnkar, Devendra Singh, Abhishek Choudhary, Shweta Anand, Anita Rathore, H.K. Jedia. (2019) Pharmacological Properties of *Aegle marmelos*: A Review. International Journal of Current Microbiology and Applied Sciences. 8(5): 1600-1608.
51. Rathore K, Joseph B, Sharma DK, A Gaurav, SK Sharma, M Milind, P Patel, C Prakash, L Singh (2018) Evaluation of multiplex polymerase chain reaction as an alternative to conventional antibiotic sensitivity test veterinary world 11(4) 474
52. Rohitash Dadhich, H Dadhich, GD Sharma, G Singh, A Rathore, S Dholpuria, Abhilasha Dadhich, Manish Agarwal. (2018) Pathological and haemato-biochemical studies of lipoma in dogs. Veterinary Practitioner. 19(1): 35-36.
53. Rohitash Kumar, Tikam C. Goyal, Devi Singh Rajput and Rahul Choudhary (2018). Credibility of different sources and channels of information perceived by tribal livestock owners in Sirohi district of Rajasthan. Indian Journal of Current Microbiology and Applied Sciences; 7(9): 1804-1808.
54. Rohitash Kumar, Tikam C. Goyal, N.K. Punjabi and Devi Singh Rajput (2018). Information seeking behaviour of tribal livestock owners in Sirohi district of Rajasthan. Indian Journal of Extension Education and Rural Development 26: 186-189.
55. S.K. Sharma, Parmjeet, Kuldeep Kumar and Monika Joshi. (2018) Prevalence and bacterial infection associated with subclinical mastitis in Gir cows. International Journal of Chemical Studies. Vol. 6(4), pp 2758-2760.
56. S.K. Sharma, Kuldeep Kumar, Monika Joshi and Parmjeet. (2018) Clinico-haematological Studies of Traumatic Pericarditis in Buffaloes. Intas Polivet. Vol. 19 (1) pp 19-21.
57. S.K. Sharma, Kuldeep Kumar, Parmjeet and Monika Joshi. (2018) Prevalence and Bacterial Etiology of Subclinical Mastitis in Surti Buffaloes. Indian Journal of Veterinary Medicine. Vol. 38 (1&2), pp 39-42.
58. S. Solanki, Sandhya Morwal and Ajay Chouhan (2018) "Accidental injury of Hyena-A case Study" International Journal of Agriculture Science and Research (IJASR): Vol. 8 (6).
59. Saini, M.; Singhal, S.S.; Joshi, A.; Pareek, S.; Saini, B.S. and Kataria, N. (2018). Archetype of variations in erythrocytic antioxidants of non-descript goat from arid tracts during hot and cold ambiances. Vet. Pract. 19(1):18-20.
60. Sandhya Morwal, SK Sharma, RK Dhuria, Deepika Goklaney, Sunanda Sharma, Mukesh Parashar, and R. K. Khinchi (2019). Prevalence of Fore-stomach disorders in buffaloes in and around Udaipur district in Rajasthan, International Journal of Chemical Studies, Vol. 7(3): 1977-1980.
61. Santanu Kumar Kuldeep, Pradeep Kumar, MC Parashar and Sandhya Morwal (2018). A comparative study of pre and post operative haemato-biochemical changes in horn cancer and broken horn in cattle in relation to healthy cattle. International Journal of Chemical Studies. 6(5).
62. Sanweer Khatoon, Naresh Kumar, Hemant Joshi and Afroz Jahan. (2018) Occurrence of *Haematopinus suis* on a wild boar (*Sus scrofa*) from Udaipur: A note. Journal of Entomology & Zoology studies. 6(5):461-462.
63. Saran Devendra, Meshram Balwant, Joshi Hemant, Singh Gajendra and Kumar Shashi (2019). Gross morphological studies on the digestive system of Guinea Fowl (*Numida meleagris*). International Journal of Livestock Research, Vol. 9 (02). 266-273.
64. Satish and Mitesh Gaur (2019). Studies on the Therapeutic Approaches for Uterine Torsion in Surti Buffaloes (*Bubalus bubalis*). The Indian Journal of Veterinary Science and Biotechnology. 14 (3)
65. Shantanu Kumar Kuldeep, Pradeep Kumar, MC Parashar and Sandhya Morwal (2018). A Comparative study of pre and post-operative haemato-biochemical changes in horn cancer and broken horn in cattle in relation to healthy cattle. International Journal of Chemical Studies 6(5):3145-3147.



66. Shantanu Kumar Kuldeep, Rajendra Singh, and Devendra Singh (2018). Dystocia due to dicephalus monster in a cow. Bulletin of Environment, Pharmacology and Life Sciences 7(2): 41-42.
  67. Shantanu Kumar Kuldeep, Sandhya Morwal, Deepika Goklaney, Sunita Meena, Naresh Singh Kuntal and Hiteshwar Singh Yadav. 2019. Blood transfusion in veterinary clinical practice: A review. *Journal of Entomology and Zoology Studies* .7(1):1459-1461.
  68. Sharma D.K., Joseph B., Singathia R., Nagda R.K., Sharma M., Barolia S.K, 2019 Standardization of Quantitative Real Time PCR (QRT-PCR) for Detection of Inflammasome following Exposure of PPR Vaccine in Goats Asian Jr. of Microbiol. Biotech. Env. Sc. 21 (3), 779-784
  69. Shashi Parmar ,Vimal Sharma, Sk Sharma and B K Sharma (2018). Seasonal variations of zooplankton in of Som Kamla Amba reservoir of Dungarpur district Rajasthan. India, Journal of entomology and zoology studies 6(4)1620-1623.
  70. Shashi Parmar and Vimal Sharma (2018) Seasonal variations in primary productivity of Som Kamla Amba reservoir of Dungarpur district Rajasthan. India, International journal of fauna and biological studies. 5(3)105-107.
  71. Singhal, S.S.; Saini, M.; Pareek, S.; Saini, B.S.; Joshi, A. and Kataria, N. (2018). Erythrocyte antioxidant status of indigenous pig from arid tracts during hot and cold ambiances. Vet. Pract. 19(1): 12-14.
  72. Sudeep solanki, Sandhya morwal & Ajay Chouhan (2018) .Accidental Injury of Hyena: A Case Study. International journal Of Agriculatural Science and Research (IJASR).8 (6).
  73. Sunil Arora, Nalini Kataria. (2018) Effect of heat stress on interrelation of T3 and T4 hormones and metabolites of poultry birds. Journal of poultry science and technology. volume 06; issue 04
  74. Sunil Arora, Vikash Kumar Sharma, Anandita Srivastava and Pradeep Kumar (2018). Alterations of Haemato-Biochemical parameters due to Gastro-intestinal Helminths infestation in Sheep. Ruminant Science, 7(2): 265-2682.
  75. Vikash Kumar Sharma, Sunil Arora, Sunil Kumar Bhardwaj and Kishan Pal (2018). Effect of heat stress on serum electrolytes level of Sirohi goat. Veterinary Practitioner, 19(2):188-190.
  76. Vikash Kumar Sharma, Sunil Arora, Sunil Kumar Bhardwaj, And Kishan Pal. (2019) Effect Of Heat Stress On Serum Electrolytes Level Of Sirohi Goat. Veterinary Practioner; Vol 20(1).
  77. Vinit Khyalia, Balwant Meshram and Nitika Jakhar (2019) Gross and Histomorphological Studies on the Respirat ory and Conducting Portions of Respiratory System in Goats (Capra hircus) Indian Journal of Veterinary Anatomy 31 (2): 97-98.
- Popular Artical**
80. प्रीती सिंह एवं नरेश सिंह कुंतल, 2019, कुक्कुट में तनाव विनियमन का शारीरिक तंत्र और इसके बचाव के उपाय, पशुधन ज्ञान
  81. प्रीती सिंह एवं नरेश सिंह कुंतल, 2019, कुक्कुट रोगों के लिए हर्बल ( जड़ी-बूटी ) औषधी, पशुधन ज्ञान

## Salient activities and achievements during 2018-19

1. An educational tour was conducted for fourth year B.V.Sc. & A.H. students from 01.05.18 to 10.05.18. The students visited the reputed institutions and centres of Veterinary importance in North India. The dean of the college Professor (Dr.) C.S. Vaishnava and ADSW Dr. S.S. Shekhawat addressed the group and flagged off the tour bus. The renowned scientists of the respective institutions delivered lectures and updated the knowledge of students pertaining to Veterinary and Animal Science including wildlife.
2. 'World Health Day' was celebrated by NSS unit of the college on 7<sup>th</sup> April, 2018. NSS volunteers performed voluntary activity camp at Govt. School of Ranchhorpura village. The NSS volunteers together collected money voluntarily and purchased kits containing pair of sleepers, pencil, eraser, and sharpener. These kits were distributed by Dean Prof. (Dr.) C.S. Vaishnava to needy students as per list given by school teachers.
3. Eleventh Foundation Day of the college was celebrated on 15.04.2018. On this occasion, technical session was organized in the morning in which the faculty members delivered lectures to UG students. Drawing, Debate and Extempore competitions were organized for students and winners were given prizes. Dean Prof. (Dr.) C.S. Vaishnava briefed the progress report of college and congratulated to teaching and non-teaching faculty members for their constant efforts..
4. The 127<sup>th</sup> birth anniversary of Bharat Ratan Dr. B.R. Ambedkar was celebrated. On this occasion, Dean Prof. C.S Vaishnava expressed their views and motivated the mass to adopt the principle of equality in their life. Speeches on the teachings of Dr. Ambedkar were delivered by the students.
5. World Veterinary Day was celebrated by staff members and students on 28/04/2018. On this day, various competitions poster, speech, slogan writing and rangoli were organized in morning session. In afternoon session the programme was chaired by Dean Prof. (Dr.) C.S. Vaishnava, All dignitaries shared their views on the theme of WVD-2018. In connection with WVD, cultural programmes were presented by the students. At the end of programme prizes were distributed to all winners.

6. World environment day was celebrated on 05<sup>th</sup> June 2018. During the day, various activities i.e. poster making, plantation, cleanliness including dumping of wastes properly in and around the college campus were organized.
7. Department of Livestock Products & Technology has started milk parlor for sell of "Fresh Milk Products" at CVAS, Navania, Vallabh Nagar (Udaipur). The parlour was inaugurated on 21<sup>st</sup> June by Prof. (Dr.) C.S. Vaishnava, Dean. Various milk products like Shrikhand, Paneer, Lassi, Khoa etc. are available at reasonable rates at the parlour.



8. International Day of Yoga was observed in the college on 21<sup>st</sup> June, 2018 in which along with faculty members and students of college, 50 NSS volunteers were participated. The staff (both teaching and non-teaching) and students actively participated in various activities during the programme viz. warm-up exercise, run for yoga, yoga practice, and projection of educational film and display of promotional literature on yoga. The warm-up exercises were carried out under the instructions of Dr. Satish Nain. In the end of programme, fennel drink, a healthy drink was served to all the participants from the Dept. of Livestock Products & Technology.
9. A 41 seater newbus was purchased in the campus for transportation of students on 03 May, 2018. The bus was inaugurated by Dean Prof. (Dr.) C.S. Vaishnava by cutting a ribbon in presence of the staff and students.
10. A contingent of 41 NCC cadets (24 boys+17 girls) of CVAS, Navania participated in 10 days NCC camp organized from 13-22 June, 2018 at Ajmer. The cadets won the prizes in different categories viz. first in tug of war, solo dance and group song and second in solo song and extempore.

11. DDG, NCC Air Commodore T.K. Sinha visited the NCC unit of college on 27 April, 2018. He inaugurated newly built NCC mess and witnessed of drill demonstration presented by SD and JD cadets. Thereafter, he visited the college campus and other units along with Dean.
12. Hon'ble Vice-Chancellor, Prof. (Dr.) B.R. Chippa, RAJUVAS visited the college campus on 12th May 2018. He addressed and interacted with the faculty members, inspected different Departments, Veterinary Clinical Complex (VCC), Girls' Hostel, various units/projects at LRS, Vallabh Nagar (Udaipur). He admired Dean, Prof. (Dr.) C.S. Vaishnava and team CVAS, Navania, Udaipur for their hard work and dedication in developing the campus. He inaugurated the bio-gas power unit, UDF funding project for the production of alternative energy by gobar-gas and renovated feed & fodder sample lab in the dept. of Animal Nutrition at CVAS, Navania.
13. A total number of 2336 livestock owners including farm women from different villages located in tribal or non-tribal areas of Udaipur, Chittorgarh, Pratapgarh and Bhilwara districts visited LRS and VCC units of CVAS, Navania in collaboration with Governmental and Non-governmental organizations' working in these areas.
14. Dr C.S. Vaishnava, Dean & Head, Department of Animal Nutrition, CVAS, Navania has superannuated from university services on 31 July 2018.
15. Professor (Dr.) R.K. Dhuria, Department of Animal Nutrition joined as Dean, CVAS, Navania, Vallabh Nagar, (Udaipur) on 31 July 2018.
16. A meeting of Broad Subject Matter Area Committee (BSMA) was conducted on 07-08 August 2018 at CVAS, Navania, Vallabh Nagar, by the ICAR about suggestions and discussions for

course curriculum to be decided for Master and Doctorate Students of Veterinary Clinical Subject. The Dean, CVAS, Navania Prof. (Dr.) R. K. Dhuria, has inaugurated the meet. The chairman of BSMA Dr. Jit Singh, Ex Dean, CVAS, Navania has chaired the function. The convener of BSMA Dr. D. B. Patil has presented the motto of meet. Other scientist members of BSMA from all over the nation viz. Dr. K. N. Arvinda Ghosh from Kerala, Dr. Navin Kumar and Dr. Vinod Kumar Gupta, both from IVRI, UP and Dr. N. S. Randhawa from Punjab were participated into the meet. The committee has visited the different departments at campus and appreciated the ongoing research and development.

17. 72<sup>nd</sup> Independence Day was celebrated at CVAS, Navania. Prof. (Dr.) R. K. Dhuria, Dean hoisted the tricolour national flag and paid homage to the freedom fighters. He addressed the gathering and recited the importance of the day which was followed by the cultural programme performed by the students enthusiastically & plantation programme has also been initiated at the hands of Dean and Guest of Honor of the function. Further on the '72nd Independence Day' celebration at RAJUVAS, Bikaner following faculty members of CVAS, Navania were felicitated by Prof. (Dr.) Vishnu Sharma, Hon'ble Vice-chancellor, RAJUVAS for their outstanding contributions and achievements i.e. Dr. Dinesh Chavhan, Dr. Pradeep Abusaria, Dr. Sanweer Khatoon, Dr. Mukesh Sharma and Dr. Chandrashekhar Saraswat.
18. Placement Cell, CVAS Navania, Udaipur conducted a seminar on 10<sup>th</sup> September 2018 on the topic of Scope and Career Opportunities of Veterinarians in Private Sector in the chairmanship of Dean, Prof. (Dr.) Rajesh Kumar Dhuria for internee students. Dr. Ashish Mudgal, Asst. Manager, Technical and Extension Activities of Dabur Ayurved has delivered his lecture on "Scope and Career Opportunities of Veterinarians in Private Sector". Academic Co-ordinator, Dr. Shiv Kumar Sharma, Convener of Placement Cell, Dr. Balwant Meshram has also expressed their thoughts on the scopes of veterinarians.
19. Anti-Ragging Committee of CVAS, Navania conducted a meeting on 14 September 2018 in chairmanship Dean, Prof. (Dr.) Rajesh Kumar Dhuria. He assured to implement directives





issued by Hon. Court and UGC thoroughly and assured that CVAS, Navania will be identified as the Ragging-Free campus. The meeting was attended by the committee members as representatives of city administration, NGOs, Media personnel, parents, faculty and students.



20. An orientation programme of newly admitted first year B.V.Sc. & A.H. students of session 2018-2019 was organised on 15th September 2018. Dean, Prof (Dr.) R .K. Dhuria, Dean, CVAS, Navania enlightened them about the infrastructural and functional activities of the institute. Dr. S.K. Sharma, Academic coordinator, informed them about the course curriculum, classes, attendance, examination etc.
21. Student's Union Election - 2018 for the different posts of CSU (Central Student's Union) and VSA (Veterinary Student's Association) was held peacefully on 31/08/2018. The result of student union election - 2018 was announced on 11th September 2018 by the Returning Officer, Dr. S.K. Sharma. Hitesh Raj Chahar 4th Yr B.V.Sc. & A.H. - as President (VSA), Devesh Kumar 3rd Yr B.V.Sc. & A.H. - as Vice President (VSA), Geerish Joshi-3rd Yr B.V.Sc. & A.H.- as Sports & Games Secretary (VSA) were elected. Oath to winning candidate was given by the Dean, Prof. (Dr.) Rajesh Kumar Dhuria.

23. Hon'ble Vice Chancellor Prof. (Dr.) Vishnu Sharma visited the CVAS, Navania from 18 to 20 September 2018. Dean, Prof (Dr.) R. K. Dhuria along with faculty members, staff members and the students welcomed the Hon'ble Vice Chancellor. He visited the departments and units of CVAS, Navania, Vallabh Nagar (Udaipur) & acknowledged the staff and faculty members for the facilities created.

24. Hon'ble Vice chancellor Prof. (Dr.) Vishnu Sharma and MLA, Sh. Randhir Singh Bhindar inaugurated the canteen of college on 20 September 2018. Prof. (Dr.) Sanjita Sharma, Dean, PGIVER, and Prof. (Dr.) R. K. Dhuria, Dean, CVAS, Navania were present on this inauguration ceremony.

25. Swachhta Hi Sewa Pakhwada was celebrated successfully during 15 September to 02 October 2018 at CVAS, Navania. The cleanliness fortnight celebration was inaugurated by Dean, Prof. (Dr.) R.K. Dhuria, during which, the Swachhta pledge was given to all staff and students. Under the programme, various activities were undertaken i.e Documentry film on Gandhi Ji was screened, lecture on "Congress Grass Eradication" by Prof. Vimal Sharma, lecture on "Gandhi Ji Ko jano" by Sh. Anant Ganesh Trivedi, Organizing Secretary, Shantipeeth, Udaipur, lecture on "Gandhi Ji Life & Philosophy" by Col. Basant Ballewar & Prof. N. K. Punjabi, cleaning the premises of campus, Drawing competition, debate, essay competition on cleanliness and theme related to Mahatma Gandhi and Plantation programme at NCC campus was organized. "Gandhi Arohan Yatra" including 45 student of 1st B.V.Sc. & A.H. along with 3 faculty members was conducted at Sajjangarh, Biological park. A mass rally was organised from college to Navania Village to spread the awareness of cleanliness with 160 NCC cadets, 50 NSS Volunteer, college students and student from Government school.



22. An Expert committee from Veterinary Council of India, New Delhi, visited the CVAS, Navania, Vallabh Nagar, (Udaipur) for inspection of college for inclusion in Schedule -I of VCI from 17 - 19 September, 2018. Committee members including Prof. (Dr.) P K Shukla, Former Joint Commissioner (Poultry), Govt Of India and Registrar & Dean PGS, DUVASU Mathura, Prof. (Dr.) Vijaya Rani, Deptt. of Biotechnology, TANUVAS, Chennai and Incharge-Prof. R. V. Gaikwad, Deptt. of Veterinary medicine, Bombay Veterinary College, Parel, Mumbai inspected the facilities available, as per the MSVE-2016.

26. Naturopathy Day (Prakritik Chikitsa Diwas) was celebrated on 17th November. Dr. Chail Bihari Sharma, an expert in naturopathy from Udaipur delivered lecture on treatment of disease by natural ways and uses of natural elements.
27. NCC day was celebrated on 25th November. On this occasion commanding officer, col. (Dr.) Vasant Ballewar of 2 RAJ R & V Reg. NCC, Navania delivered the expert lecture on the topic of "Waste Management". Essay writing, poetry, and elocution competitions were also organised.
28. Agricultural Education Day was celebrated on 3rd December, on the birth anniversary of Dr. Rajendra Prasad. Dean, Prof. R.K. Dhuria delivered his speech on importance of agriculture and livestock rearing in increasing economy of country. Dr. N.K. Panjabi, Dr. G.K. Mathur and Dr. Aruna Parihar also highlighted the importance of agricultural education in present scenario. An essay writing competition on topic "Role of agriculture education in progress of Indian economy" was conducted.
29. World Soil Day was celebrated on 5th December. Dean Prof. R.K. Dhuria delivered his speech on importance of minerals in soils. During this programme a slogan and essay writing competition was organized on topic "Soil health care". On this occasion a team of faculty members Dr. S.S. Shekhawat, Dr. Sunil Arora, Dr. Sanweer Khatoon, Dr. Umesh Suradkar and Dr. C.S. Sarswat delivered lecture on soil testing and importance of nutrient in soil in villages eg. Bhopal pura, Barliya, Sindhiyo ka Badgaon and Jorji Kheda.
30. The VI Annual Convention of Society for Veterinary Science & Biotechnology and National Symposium on "Newer Concepts and Approaches for Improvement in Animal Health and Production" was organized successfully by the CVAS, Navania, (Udaipur) from 13-14th December, 2018. Prof. (Dr.) U.S. Sharma, Hon'ble Vice-Chancellor, MPUAT, Udaipur was the Chief Guest. Dr. P.K. Dashora, Former, Vice-Chancellor, Kota University was the Guest of Honor. Prof. R.K. Dhuria, Dean, CVAS, Navania chaired the Inaugural Session. Prof. (Dr.) N.S. Rathore, DDG (Education), ICAR, New Delhi was the Chief Guest of the Valedictory function. Prof. (Dr.) Vishnu Sharma, Hon'ble Vice-Chancellor, RAJUVAS, Bikaner acted as Chairman. The Guest

of Honour of the function was Dr. Jit Singh, Former Dean CVAS, Navania, Udaipur and Prof. (Dr.) Sanjita Sharma, Dean, PGIVER, Jaipur.



31. A training on 'Wild Life Rescue: Training Technique and Care' was organized by Centre of Studies on Wildlife Management and Health, Bikaner at CVAS, Navania from 19-21 December, 2018. A contingent of 25 forest guards and foresters along with the students participated in this workshop. Prof. R.K. Dhuria, Dean, CVAS, Navania inaugurated the programme, delivered his speech and motivated on this day. DFO (North) Udaipur Sh. O.P. Sharma Chaired Valedictory session as the Chief Guest. Dr. Shravan Singh Rathore, SVO, Machia Biological Park, Jodhpur, Dr. Puneet Pandey, Asstt. Prof., Wild Life, Amity University, Noida, Dr. Satish Sharma, Retd. ACF, Udaipur delivered their expert lectures.



32. The result of third year B.V.Sc. & A.H. is declared by the university. Among the five of merit list our students occupied the first and fourth position. The Dean of institution Prof. Dr. R. K. Dhuria and faculty members have extended Congratulations to all the merit holders and the successful students.
33. An Educational tour of 28 final-year B.V.Sc & A.H. students Junagarh Agriculture University visited the CVAS, Navania Campus on 11th January 2019



with Prof. A.K. Ahlwat, Associate Professor & Incharge, Department of Animal Genetics and Breeding Junagarh.

34. The Sports and Cultural Week was organized by College of Veterinary & Animal Science, from 9-15 January 2019. Various sports competitions like Badminton, Cricket, Volleyball, Table Tennis, Chess, Basket ball, Lawn tennis, Kabaddi, Discus Throw, Shot Puts & Javelin Throw and 100, 200 & 400-meter race were organized. Interclass competitions for events of Elocution, Debate, Extempore, Poster, Clay Modeling, Quiz, On Spot painting, Cartooning, Collage making and Theatre programme were also organized during this week. Fresher's Day was organized on the closing day. Prizes and certificates were distributed to winner students by the Dean.
35. Fresher's Day was organized on the theme of NEOPHYTES-2019 on 15th January for welcoming the newcomer's of the first year B.V.Sc. & A.H. programme. The event began with the introduction of First-year students and subsequently various cultural programmes were organized. Prizes and certificates were distributed to winner students by the Dean.



36. Two days training programme on "Animal Disease Diagnosis, their Prevention and Control" was organized from 18 -19 January 2019 in the Department of Veterinary Microbiology under the guidance of the Dean, College of Veterinary and



Animal Science, Navania, (Udaipur). Total 15 field workers from PRADAN NGO participated in an orientation on animal disease diagnosis, prevention and control.

37. Two Days training programme under VAN DHAN YOJNA budgetary scheme of Rajasthan Govt. was organized at CVAS, in cooperation with Centre for Studies on Wildlife Management & Health, Bikaner and Forest Department, Udaipur from 24-25 January .2019 under the title of "Animal Husbandry & Dairy Development". Twenty-one farmers from Leopard Conserve Reserve (Jawai) Participated in the training. A short movie based on scientific goat farming titled "Sandesh" was displayed.
38. The 70th Republic day was celebrated with great enthusiasm. Prof. R.K. Dhuria, Dean, CVAS, Navania hoisted the National Flag followed by March past by the NCC cadets. Prof. R.K. Dhuria addressed the gathering and various cultural programmes were performed by the students. Col. Vasant Ballewar and Dean, CVAS, Navania awarded the NCC cadets
39. One day training on Goat Rearing Management was organized on 28th January 2019 under NMPS- Genetic importance of Sirohi and nondescript goat project. Introductory lecture was delivered by Dean, Prof. R. K. Dhuria on "Current status of goat rearing in Rajasthan and contribution of goat in doubling the farmer's income". Twenty one Veterinary Officers from Ajmer and Chittaurgarh district participated in the training.
40. A one-day training programme of ST farmers of TSP area on "Scientific Sheep Rearing System" was held on 5<sup>th</sup> February 2019 at CVAS Navania under MSSP Sonadi Unit. Total 36 farmers of Lasadia block attended the training. Khadi Blankets and Medicine kits were distributed to the farmers under Direct Benefit Scheme of TSP.





41. A six days residential training of Field Workers of Jan Shiksha evam Vikas Sangathan, Dungarpur was organized by CVAS, Navania, from 18-23 February 2019 on the title "UNATH PASHUPALAN". Expert lecture from the discipline of Veterinary Science was given and participants got exposed to working of different units viz. Gir cattle, Surti buffalo, Sonadi sheep, Sirohi goat, poultry, Bio-gas Unit and got acquainted with latest technologies of Veterinary Field. A total of 13 field workers participated in the training.



42. The Placement Cell of College organized a motivational lecture for undergraduate students (1st & 2nd Year, B.V.Sc & A.H.) on 6<sup>th</sup> February 2019. Mr. Sanjay Datta, Principal, Maharana Mewar Public School, Udaipur and Ms. Shanu Lodha, Administrative Officer, Indian Institute of Management, Udaipur were the keynote speaker on this occasion. Mr. Datta evocated the students to work hard to achieve academic excellence. Ms. Shanu Lodha expressed her views on the principles of life and appealed all the students to use their energy in a positive direction.
43. Dr. A.K. Tomar, Director CSWRI and Dr. H. K. Narula Head CSWRI, Bikaner along with their Scientist team visited. MSSP Sonadi unit of CVAS, Navania (Udaipur) on 28th February 2019. Dr.



Vishnu Sharma, PI of project explained about the programme of MSSP unit. Dr. A.K. Tomar discussed about the progress of the project and essential directives for further improvement. He also interacted with ST Farmers of Salumber area and distributed Torch, Rams, Feeder, Concentrate feed and mineral mixture to farmers under the direct benefit scheme of TSP.

44. A motivational lecture for 4th Year B.V.Sc. & A.H. & M.V.Sc. students were organized on 1st March 2019. Mr. Khemraj Choudhary, Former Additional Chief Secretary (IAS), Govt. of Rajasthan graced the occasion as keynote speaker and gave the novel thought of "CQ+PQ>IQ" (i.e. Curiosity Quotient plus Passion Quotient is more than intelligence quotient) and suggested that good thoughts and proper action are the tools to mark anyone towards perfection.
45. College of Veterinary and Animal Science, Navania (Udaipur), got included in the First schedule of Veterinary Council of India on 8th March 2019 according to the Gazette notification released by Government of India. Honorable Vice Chancellor Prof. Vishnu Sharma stated that this decision is a big achievement and it will help the Institute for getting funds for development from central government as well as Rajasthan Government.
46. Annual day of the college was celebrated on 16th March 2019. Honourable Vice Chancellor, Prof. Vishnu Sharma acted as Chief Guest and Prof. Sanjita Sharma, Dean, PGIVER, Jaipur as Special Guest. Dean, Prof. R.K. Dhuria presented the annual progress report and achievements of the institute during the year. Honourable Vice Chancellor, Prof. Vishnu Sharma in his speech congratulated the students, faculty and nonteaching staff for the achievement of the Institute for inclusion in the first Schedule, Government of India and stated that after this inclusion University has higher expectation from CVAS, Navania (Udaipur). Various cultural activities were presented by the student during the programme.
47. Poshan Pakhwada was organized from 8-22 March 2019 at CVAS, Navania (Udaipur). During which various activities like Shramdaan at CVAS, Navania (Udaipur) campus, basic data survey at Ranchhodpura village, distribution of fruits to



children of primary school, Village Ranchhodpura and guest lecture by principal of primary school Ranchhodpura on the topic "Awareness about Personnel and Social Hygiene and Role of Nutrition in Growth of Children" were organized.

48. NSS special camp of seven days for the NSS volunteers (students of 1st year B.V.Sc. & A.H.) was organized successfully from 24-30 March 2019 at CVAS, Navania (Udaipur). Prof. R. K. Dhuria, Dean delivered the speech on NSS and its importance in social life to the volunteers followed by conduction of different activities i.e. PT & Yoga on each and every day early in the morning, Debate competition, Shramdaan, Poster making competition, Quiz competition, Matdata Jagrukta rally by NSS Volunteer and student of primary school in the nearby villages Ranchhodpura and Navania, and projection of motivational/

educational movies, etc. were conducted. During the special camp, three Guest lecturers were delivered by Sh. Ajeet Singh Rajawat, Registrar, RAJUVAS on the topic "Role of a Veterinarian in Society", Sh. Lakhan Singh Meena, Deputy Superintendent of police, Vallabhnagar on the topic "Role of discipline in student's personal and social life" and Sh. Sandeep Arora, Tehsildar, Vallabhnagar on "Systematic Voters' Education and Electoral Participation, programme (SWEEP programme)".

49. Farmers from different villages located in tribal or non-tribal areas of Udaipur, Pratapgarh, Bhilwara, Banswara and Jaipur district visited LRS unit and VCC of CVAS, Navania. The visit was organized by CVAS, Navania in collaboration with 'Governmental and Non-governmental organizations' working in these areas. A total number of 875 livestock owners were benefited.
50. Surgical Strike Day was celebrated by organizing a student's rally from CVAS, Navania to Vallabhnagar village on 29<sup>th</sup> September, 2018 at CVAS, Navania (Udaipur). Dean Prof. R.K. Dhuria, Academic Coordinator Dr. S.K. Sharma and ADSW Dr. S.S. Shekhawat flagged off the rally. Teaching and non-teaching staff and students participated in the rally. Dr. Sunil Arora and Dr. Sanveer Khatoon organized this event.

## Extension Activities:

### Mera Gaon Mera Gaurav

#### Introduction

The work area of the institution under the program covers 04 panchayat samities namely, Vallabhnagar, Mavli, Salumbar, Bhadesar. On the basis of obtained information through Base Line Survey (BSR) conducted, the scientists shaped their activities to strengthen the rural economy and upliftment of the society by providing information to farmers on technical and other related aspects through personal visits and other means. Presently 8 teams of multidisciplinary scientists involving 37 scientists in total are remain in touch with their adopted villages. Under the programme, the scientists of different teams are regular in contact with their respective villages. They plan the activities and execute these in the multiple forms in a time frame given to them.

- Base line survey in all the adopted villages - Task completed
- Regular submission of monthly, quarterly and annual progress reports (MPR, QPR and APR) since the implementation of the programme. Reports are submitted in prescribed format along with good quality action photographs of the activities undertaken with banner of the programme.

#### • Institution-wise Summary

Name of institute	Total No of groups formed	No. of scientists involved	No. of villages covered	No. of field activities conducted	No. of messages/ advisory sent	Farmers benefited (No.)
CVAS, Navania, Vallabhnagar	8	37	37	205	18	7163

**Detailed Progress:** The groups have conducted different activities like farm and home visits, demonstrations, trainings, interface meetings, mobile based advisories, awareness on common problems faced by rural farm families and literature support on key topics (in local language) for overall development of rural people under the umbrella of MGMG programme in the selected villages under the supervision and monitoring of selected scientists of CVAS. The scientists are in constant touch with the farm families to solve their problem related to their animals through mobile or face to face interaction with them. A regular technical backup is being provided as per the need of the animal keepers by the scientists of this institution.

**Activities undertaken:** A number of activities classified under the following sub-heads including major spheres of rural development were conducted by the scientists of CVAS in their adopted villages. Besides these some other important activities i.e. distribution of medicine to livestock owners, health-checkup of farm animals organization of clinical camps, infertility camps etc. were undertaken for the farmer's benefit.

## Activities organised by ICAR Institutes/ SAUs under MGMG

S. No.	Name of activity	No. of activities conducted	No. of farmers participated & benefitted
1.	Visit to village by teams	80	1630
2.	Interface meeting/ <i>Goshthies</i>	42	558
3.	Training organized	5	80
4.	Demonstrations conducted	7	105
5.	Mobile based advisories (No of message)	18	175
6.	Literature support provided(No)	15	2000
7.	Awareness created (No)	28	2500
8.	Other, if any		
	a) input support provided	8	85
	b) animal health camps	2	30
	Linkages developed with other agencies (No. of agency)	3	95
	<b>Total</b>	<b>208</b>	<b>7,258</b>

## Veterinary Clinical Complex

This Veterinary hospital has various facilities for diagnosis and treatment of animal diseases which includes clinical examination and treatment under outdoor, indoor wards for livestock and pet animal patients, advanced diagnostic procedures like radiography, sonography etc., investigation of clinical samples of blood, serum, urine and faeces, medical / surgical / gynecological treatment of diseases including operation theaters for livestock and small animal patients. There is also facility for

stay of attendants of animal patients. Facilities for training of farmers, veterinary and para-veterinary students have also been developed.

## Executive Summary of Progress

- Total 14370 cases of different diseases were treated at outdoor including 10841 medical, 2064 surgical and 1465 gynecological cases in different species of animals.
- Total numbers of indoor patients were 368 during report period (Medicine 138; Surgery 179; Gynaecology 51).



- Under preventive and control measure taken against parasites, ecto-parasiticide spray and deworming was done in **4658** and **3159** animals, respectively.
- Total **10459** animal owners were benefited by clinics (Medicine **8376**, Surgery **795**, Gynaecology **1278** and Camp **10**).
- Total **877** clinical samples were investigated.
- Total **142** ambulatory cases (critically ill animals) were transported from **86 different villages** by the large animal ambulance.
- Total **7** training programmes (including one for practicing veterinarians) were organized during current year which were sponsored by different agencies. Total beneficiaries were **253**.
- Total **383** students of B.V.Sc. & A.H., M.V.Sc., Ph.D. and A.H.D.P. are being / were trained and educated in clinical practice during current year.

**Table 1: Number of case attended report (month wise):**

MONTH	CATTLE			BUFFALO			SHEEP			GOAT			OTHERS			TOTAL			G. TOTAL
	MED.	SUR.	GYN.	MED.	SUR.	GYN.	MED.	SUR.	GYN.	MED.	SUR.	GYN.	MED.	SUR.	GYN.	MED.	SUR.	GYN.	
APR., 2018	207	114	38	307	21	37	110	0	0	75	9	32	24	10	6	723	154	113	990
MAY, 2018	230	109	51	308	26	28	101	0	0	24	8	57	37	20	5	700	163	141	1004
JUN. 2018	299	56	28	317	39	37	221	0	0	123	9	6	20	11	5	980	115	76	1171
JUL. 2018	246	80	30	446	39	56	220	0	0	156	2	13	27	7	13	1095	128	112	1335
AUG. 2018	236	80	37	339	65	78	170	0	2	138	8	18	20	7	4	903	160	139	1202
SEPT. 2018	220	132	29	233	87	58	120	2	0	200	12	20	23	18	8	896	251	115	1262
OCT. 2018	342	120	25	371	98	83	129	0	0	266	14	14	17	13	6	1125	245	128	1498
NOV. 2018	251	82	51	348	80	54	70	2	0	171	26	30	66	26	4	906	216	139	1261
DEC. 2018	283	106	53	286	39	53	124	2	0	205	9	25	82	25	10	980	181	141	1302
JAN. 2019	332	92	44	385	71	53	32	0	0	169	9	33	27	52	16	945	224	146	1315
FEB. 2019	311	54	28	243	30	28	31	0	0	108	6	31	127	43	33	820	133	120	1073
MAR. 2019	322	30	34	231	21	26	67	0	0	46	5	22	102	38	13	768	94	95	957
TOTAL	3279	1055	448	3814	616	591	1395	6	2	1681	117	301	572	270	123	10841	2064	1465	14370

**Table 2: Preventive and control measures**

Month	Deworming	Ectoparasitic control	Total
APR., 2018	204	308	512
MAY, 2018	215	320	535
JUN. 2018	325	420	745
JUL. 2018	345	440	785
AUG. 2018	240	365	605
SEPT. 2018	280	360	640
OCT. 2018	320	480	800
NOV. 2018	315	444	759
DEC. 2018	280	456	736
JAN. 2019	235	375	610
FEB. 2019	215	395	610
MAR. 2019	185	295	480
<b>Grand total</b>	<b>3159</b>	<b>4658</b>	<b>7617</b>

**Table 3: Detail of The Health Camps Organized:**

S. No	Date	Name of village	No. of beneficiary	No. of animals
1.	02/10/2018	Netavala	10	72
<b>Total</b>			<b>10</b>	<b>72</b>

**Table 4: Collection of clinical samples for investigation:**

S. No.	Type of Sample	No. of Sample collected
1	Blood	284
2	Milk	151
3	Urine	102
4	Faecal	169
5	Skin scrapings	66
6	Ruminal fluid	99
7	Tissue smear	0
<b>Total</b>		<b>871</b>



**Table 5: Detail of the training programme organized:**

S. No.	Date	Topic of training programme	Sponsoring agency	No. of beneficiary		
				Male	Female	Total
1	3/4/18	Health care in animals		0	20	20
2	10/4/18	Health care in animals		10	5	15
3	25/5/18	Health care in animals	ICICI Rural self employment training program	0	25	25
4	4/1/19	Health care in animals	Rajkiya pashu palan prashikshan sansthan Udaipur	28	0	28
5	11/1/19	Health care in animals		10	5	15
6	28/3/19	Health care in animals	MPUAT	85	28	113
7	28/3/19	Health care in animals	MPUAT	20	17	37
<b>Total</b>				<b>153</b>	<b>100</b>	<b>253</b>

**Table 6: Detail of student trained / educated in clinics:**

S. No.	Clinical Training (Course )	No. of students					Total
		SC	ST	OBC	SBC	Gen.	
1	B.V.Sc. & A.H.	45	32	161	5	31	274
2	M.V.Sc.	3	6	4	-	2	15
3	Ph.D.	-	-	-	-	-	-
4	A.H.D.P.	19	12	49	5	9	94
<b>Total</b>		<b>67</b>	<b>50</b>	<b>214</b>	<b>10</b>	<b>42</b>	<b>383</b>

## Post Graduate Institute of Veterinary Education And Research (PGIVER) Jaipur

### Introduction:

Post Graduate Institute of Veterinary Education & Research (PGIVER) is one of the premier Institutes which has contributed a lot in the growth of animal husbandry sector with its continuous teaching, research and extension activities in Rajasthan. PGIVER was established in 2012 at Jaipur, as constituent college of Rajasthan University of Veterinary and Animal Sciences, Bikaner. PGIVER has started B.V.Sc. & A.H. course at Jaipur after duly granted permission of Veterinary Council of India, with effect from 29.10.2015. Intake capacity of the institute is 80 students per annum.



The University intends to develop the Institute as 'Centre of Excellence for Higher Veterinary Education'. In order to meet out the said intent of the University, the Institute is poised to address new challenges in the fields of teaching, research and extension activities as regards to Veterinary & Animal Sciences and in furtherance imparting to development of specialized human resource. The main campus of the Institute is located at National Highway-11, Agra Road, Jamdoli, Jaipur on 18.90 acre (75608 sq.m.) of land allotted by Government of Rajasthan where a newly constructed academic and administrative building with library Veterinary Clinical Complex Building including OPD and IPD. Livestock Farm Complex having dairy, sheep & goat and poultry unit has been established. Well-equipped sports facilities and attractive leisure time opportunities are offered to the students and employees of the Institute.

Besides the main campus, Institute is in possession of 1.52 acre land at B-2 Bypass, Mansarovar, Jaipur, where AHDP course is being conducted along with research projects of university office. In addition to this, Institute has 14.22 acre of land at Kho- Nagorian, Jaipur for the purpose of feed and fodder production and NCC unit including equine unit.

### Mandate:

Mandate of the institute is to develop skilled expertise in different areas of Veterinary & Animal Sciences and pursue livestock owners/farmer's need based research, extension and development activities.

### Objectives:

- Higher education (PG & Ph.D) in various disciplines of Veterinary Science & Animal Husbandry.
- Research programmes in line with the need of the state to enhance livestock health & productivity.
- Act as a coordinating institute for various tele medicine centers in different parts of the state and creating a data base and network system for feed, fodder, diseases, animal products and by products.
- On campus and off campus Post Graduate diploma, certificate programmes for skill development to promote entrepreneurship and business activities in livestock sector.

- Act as a referral institute for diagnosis and treatment of sick animals.
- Act as a platform to disseminate advance technologies to the farmers for enhancing livestock productivity.
- Liaisoning with various premier institute of national and international repute for development of animal husbandry sector in the state and provide consultancy to government and non-government organizations. .
- To pursue research and development in frontier areas like wild life, climate and weather based programme, nanotechnology, organic animal husbandry, bio-diversity and other areas of emerging importance.

## Academic Profile:

### Academic Departments:

Total seventeen academic departments have been created by the University as per norms laid by Veterinary Council of India (VCI) under MSVE Regulations, 2016 and are functional along-with procurement of necessary infrastructure and resources in terms of equipments, contingencies etc. The college also has one AHDP institute providing two year diploma programme in animal husbandry after senior secondary education. The institute for AHDP was established at B2 bye pass campus.

### Staff Position:

#### Teaching Staff (Faculty):

Teaching and instructions to UG, PG and Ph.D. courses are being extended by qualified faculty. As far as the Teaching staff (Faculty) is concerned there are total 74 posts, (broken up into 17 posts of Professors, 16 posts of Associate Professors and 41 posts of Assistant Professors) are required as per MSVE Regulations, 2016 out of which 15 posts of Professors, 23 posts of Associate Professors, 43 posts of Assistant Professors and 1 post of assistant production manager are sanctioned for various academic departments. As on March 31<sup>st</sup>, 2019 posts of 02 Professors, 04 Associate Professors and 31 Assistant Professors are posted to the Institute

Teaching Associates and Retired Officers from Government sector have been engaged against sanctioned but vacant posts in various academic departments.

#### Non-Teaching Staff:

Out of total 104 Administrative, Technical and Supporting nature of posts, 57 are sanctioned as regular posts while 47 posts are sanctioned to be engaged on job basis. Out of 57 sanctioned regular posts, 10 posts are filled with regular employee. The persons have been engaged on job basis as per need against the sanctioned supporting nature of posts.

### Students' Profile:

The overall strength and academic performance of the students of the Institute is summarized as under. In the academic arena the students of I Year and II Year B.V.Sc. & A.H. each have secured 3 positions out of top 5 at the University Level Examinations.

#### Students' Strength (2018-19)

Ph.D.				M.V.Sc.			B.V.Sc.&AH.					AHDP			Grand Total
I	II	III	Total	I	II	Total	I	II	III	IV	Total	I	II	Total	
6	9	3	18	26	14	40	89	70	49	55	263	46	39	85	406



## Students' Academic Performance (2018-19)

Course	Year/Examination 2018-19 appeared	No. of Students Appeared	No. of Students Passed	No. of Students Secured I Division (Above 60% Marks)	No. of Students Secured University Merit Position
AHDP	I Year	39	39	39	---
	II Year	31	31	31	---
B.V.Sc. & A.H.	I Year	86	69	60	1
	II Year	50	49	48	2
	III year	55	55	54	1
M.V.Sc.	I Year	14	14	14	---
	II Year	11	11	11	---
Ph.D.	I Year	2	8	---	---
	II Year	1	1	---	---

### Research Activities:

The faculty and the students of the Institute have remained actively engaged in basic as well as applied research, in order to facilitate the solutions for different health and productivity linked issues of livestock and other related concerns of livestock owners. Barley fodder is being grown in hydroponic machine and demonstration unit has been installed to increase the production of green fodder through Hydroponic Technology under RKVY.

RKVY project "Epidemiological Mapping of Antimicrobial Resistant and its Underlying Genetic Mechanisms for Improvement in Health of livestock & Poultry Sector" is being implemented smoothly.

RKVY Project "Centre for Diagnosis, Surveillance & Response of Zoonotic Diseases" is running with its objective of creation of State-of-Art Facility for 'Zoonoses Control and Risk Assessment' by strengthening local capacity to diagnose zoonotic diseases. In this project mainly five most prevalent zoonotic diseases like Brucellosis, TB, Para-TB, Salmonellosis and Rabies are covered. Approximate 1000 blood samples were collected and diagnosed. Besides, various seminars and camps were organized on different occasions like World zoonosis Day, World Veterinary Day etc. Educational and Awareness camps were organized on time to time basis for farmers, veterinarians, Para-Veterinary staff and live stock owners.

RKVY Project "Capacity Building for Detection of Newer synthetic ingredients, highly pathogenic microbial presence, drug and pesticides residues, Pollutants etc. by establishing high end milk quality testing research laboratory at Jaipur" has run successfully in the Institute between the year 2012-13 and 2016-17 and presently the activities of the project are being taken up by the Institute.

Research on various aspects of Veterinary and Animal Sciences is being conducted by Post Graduate and Ph.D. students of the Institute in different research streams with different objectives to suffice the requirements for pursuance of the degree.

### Extension Activities:

#### Mera Gaon Mera Gaurav (MGMG) Scheme:

Under this scheme the faculties have to remain in touch with the adopted villages for providing information to farmers on technical and other related aspects in a time frame through personal visit and other means.

#### List of villages adopted by the faculties of PGIVER, Jaipur

- |                |                        |
|----------------|------------------------|
| 1. Ballupura   | 9. Sanjariya           |
| 2. Mohanpura   | 10. Prithvi Singh Pura |
| 3. Vijaipura   | 11. Shivdaspura        |
| 4. Mukandpura  | 12. Bhojya Dand        |
| 5. Raithal     | 13. Teetriya           |
| 6. Deoliya     | 14. Chandlai           |
| 7. Teelawas    | 15. Udaipuria          |
| 8. Dahmi Khurd | 16. Aleewas            |

## Activities performed by faculties under Mera Gaon Mera Gaurav (MGMG) Scheme

- Teams conducted 37 interface meetings/Goshties with livestock owners and panchyat representative in which 326 farmers participated & benefitted.
- One demonstration was also conducted in which 4 farmers participated.
- Total 52 mobile based advisories were provided to 542 farmers and 13 literature supports were provided to 239 farmers.
- A total of 107 activities were conducted in which 1111 farmers benefitted.

## Smart Village:

### Village Kanarwas of Bassi Tehsil

- Adopted for smart village by the institute. Special NSS Camp of 50 students of PGIVER, Jaipur was organized at adopted village Kanarwas from 11<sup>th</sup>-17<sup>th</sup> March, 2019. The students carried out various awareness programmes in the village on cleanliness, dowry, drug addiction, child marriage, education, vaccination in animals, advanced animal

husbandry practices etc. under the guidance of In-charge, NSS.

## Swatch Bharat Mission:

Cleanliness campaigns under *Swachhh Bharat Mission* are being regularly organized in the institute. "Swachhta Pakhwara" was celebrated from 1<sup>st</sup> -15<sup>th</sup> September. Different programmes viz. cleanliness drive in different parts of the Main Building, VCC, LFC and in the neighboring *Kust-Ahsram*, Inspection of different departments and sections for cleanliness, Awareness programme on cleanliness in the nearby villages etc. and Essay and Elocution Competitions for students were organized during this period. On the occasion of Birth Anniversary of Mahatma Gandhi, "Swachhta Pledge" programme was organized on 2<sup>nd</sup> October, 2018 in which Prof. (Dr.) Sanjita Sharma, Dean, PGIVER, Jaipur appealed all teaching and non-teaching staffs and students to maintain cleanliness around them.



## Participation in Livestock development Activities:

To disseminate advance animal husbandry technologies in the state, PGIVER has intensified efforts for enhancing livestock productivity through its extension education system. PGIVER organise training and also provide the resource person to other institutions for livestock development. Delivered 9 lecture to Veterinary Officers & Sr. Veterinary Officer of the Department of Animal Husbandry at Training Institute RSMLTI, Jaipur on following topic-

S.No.	Topic Name	Name of Scientist
1	Epidemiological aspects of Foot and Mouth Disease	Dr. S.K. Sharma
2	Current Challenges to Antimicrobial Resistance	Dr. S.K. Sharma
3	Caesarean Section in Cattles & Buffaloes	Dr. Y.P. Singh
4	Rumenotomy in Bovines and harmful effects of polythene on animals	Dr. M.C. Parashar
5	Sutures and demonstration of different suturing techniques	Dr. M.C. Parashar
6	Common surgical affections and their management in ruminants	Dr. M.C. Parashar
7	Male reproductive organ of a bull, there function & external & internal part of dairy animals & there function	Dr. S.P. Yadav
8	Breeding Strategies for doubling the income of livestock farmers	Dr. P.C. Sharma
9	Enhancement of productivity of animals through improved animal husbandry practices.	Dr. P.C. Sharma

## Trainings Organized:

1. Under RKVY Project “Capacity Building for Detection of Newer synthetic ingredients, highly pathogenic microbial presence, drug and pesticides residues, Pollutants etc. by establishing high end milk quality testing research laboratory at Jaipur” trainings for farmers was organized. Total 951 persons were given training and 7477 milk samples were analyzed in the state. Prof. (Dr.) Sanjita Sharma, HOD, Department of Livestock Production Management and PI of the project co-ordinated these training programmes.
2. Livestock farmers under RSLMTI training programme visited different units of LFC where various farm practices were demonstrated. Lectures regarding better livestock production through proper reproductive management were delivered at RSLMTI as well as LFC, PGIVER.

## Treatment camps organized:

- A free Rabies Vaccination-cum-Treatment Camp was organized on the occasion of “World Veterinary Day” on 29<sup>th</sup> April, 2018. A total of 73 canines were vaccinated against rabies and the dog owners were enlightened about the zoonotic diseases
- One Day vaccination camp was organised on World Zoonosis Day on 6<sup>th</sup> June 2018
- Two day free treatment camp for injured birds was organized from 13<sup>th</sup> to 14<sup>th</sup> January, 2019.

## Livestock Farm Complex:

### Farm Activities:

- Tharparkar, Gir, kankrej and Rathi cows and Murrah buffaloes are maintained at livestock farm complex as demonstration unit for UG and PG students.
- Poultry farming has considerable stock of layer and broiler birds as per MSVE 2016.
- Routine farm practices viz. de-worming and vaccination of livestock and poultry at LFC have been conducted wherever sick animals were served with the appropriate treatment.
- Demonstration sessions on different livestock units at LFC have been conducted for the various batches, of trainee farmers and animal owners, from the Rajasthan State Livestock Management and Training Institute Jaipur, Department of Animal Husbandry, Govt. of Rajasthan.
- Cow and buffalo milk produced at LFC is being sold at daily basis.

## Veterinary Clinical Complex:

### Clinical OPD:

The faculty of the Institute at outdoor clinics of Veterinary Clinical Complex (VCC) have been involved in providing treatment to sick animals and extending consultation to the livestock breeders/ animal owners throughout the year.





# Annual Report 2018-19

## Total no. of cases examined and treated at OPD during 2018-19

Species	Large Animals				Small animals				Birds	Others	Total
	Cattle	Buffalo	Horse	Camel	Dog	Cat	Sheep	Goat			
Number of Cases	568	265	93	24	3505	46	41	2056	70	59	6727

### Veterinary Surgery:

A total of 41 Major surgeries and 79 ultrasonography/ radiological examinations were performed in large and small animals.

### Veterinary Clinical Diagnostic Laboratory:

A total of 159 samples were analysed for antibiotic sensitivity (ABST), blood, urine and faecal examinations whereas 2 samples of feed were analysed for Nutritional Parameters and Proximate Principles respectively.

### Dignitaries' Visits:

Dignitaries		Purpose of visit
Name	Designation	
Prof. (Dr.) B.R. Chhipa	Vice-Chancellor, RAJUVAS	Formal visit
Prof. (Dr.) Vishnu Sharma	Vice-Chancellor, RAJUVAS	Formal visit
Dr. Prabhu Lal Saini	Minister for Agriculture, Horticulture, Animal Husbandry and Fishery	Inauguration of college building
Shri Ashok Parnami	MLA	
Dr. Rajesh Sharma	IAS	Formal visit on World Veterinary Day
Dr. Shailesh Sharma	CEO, Rajasthan Livestock Development Board	
Dr. Ravi Murarka	President, AAVIO	interactive session
Dr. Mohammed Shamsuddin	Livestock Officer, Food and Agriculture Organization of The United Nations	Formal visit

### Awards received during 2018-19

S. No.	Name of faculty	Name of Award	Awarding authority
1.	Sheela choudhary	1 <sup>st</sup> prize in poster presentation	Amity University Jaipur
2.	Amit Kumar Lavania	2 <sup>nd</sup> Prize in Poster Presentation)	Amity University Jaipur
3.	Dr. Vikas Galav	Best Oral Presentation & Best Scientist Award	FDDI, Jodhpur
4.	Dr. Ashish Saini	1 <sup>st</sup> prize in Oral Presentation	NTR college of Vet Science, Gannavaram (A.P)
5.	Dr Samita Saini	Outstanding women in Vet. and animal Animal science	the 4th Annual Women's Meet (AWM 2019) at Chennai

## Contribution as Resource Person:

1. Dr. Sanjita Sharma, Professor & Head and Dr. Navav Singh, Assistant Professor, Department of Livestock Production Management attended National Livestock conference on "Smallholders Livestock Producers in India: Opportunities and Challenges" & 25<sup>th</sup> Annual Convention of ISAPM at SDAU, Sardarkrushinagar held from 11<sup>th</sup> to 13<sup>th</sup> April, 2018. Dr. Sanjita Sharma presented lead paper on Small "Ruminant Organic Farming: Prospective and Promising Enterprise" and acted as Co-Chairman in one session.
2. Prof. (Dr.) Sanjita Sharma, Dean & Head, Department of LPM attended IAU Golden Jubilee International Conference at NASC, Pusa, New Delhi from 23-25 November, 2018 and acted as rapporteur in one session.
3. Dr. Sanjita Sharma, Professor & Head, Department of Livestock Production Management presented paper on "Antimicrobial Resistant" in "International conference on Intensifying Food Systems and Health: Emphasis on Antimicrobial use in Agricultural Systems" at ILRI, Jaipur from 4th - 6th April, 2018.
4. Prof. (Dr.) Sheela Choudhary delivered oral presentation on "Impact of feeding area specific mineral mixture on goat productivity and socio economic status of goat farmers" in Asian Regional Conference on Goats.
5. Prof. (Dr.) Sheela Choudhary Co Chaired the session "Nutritional Management and Alternative Feeding Systems" in Asian Regional Conference on Goats
6. Dr. Y.P. Singh, Assistant Professor, Department of Veterinary Anatomy attended a meeting on 21.12.2018 as an alternate member of "Veterinary Hospital Planning and Surgical Instruments Sectional Committee MHD 13 of BIS" at Veterinary College, G.B. Pant University of Agriculture and Technology, Pantnagar.
7. Dr. Sandeep Kumar Sharma, Assistant Professor, Department of Veterinary Microbiology and Biotechnology participated and presented a invited lecture at International Workshop on "Antimicrobial resistance and strategies for its mitigation" jointly organized by NAMS&T centre and GADVASU, Ludhiana, Punjab during 10th-13th July, 2018.
8. Dr. Vikas Galav, Assistant Professor, Department of Veterinary Pathology conducted the CPCSEA inspection at RUHS Medical College and Rajasthan University, Jaipur Jaipur.
9. Dr. Subhash Chand, Assistant Professor, Department of Veterinary and Animal Husbandry Extension Education visited Amity University, Jaipur on 04.12.2018 for inspection of animal house facility as CPCSEA representative.
10. Dr. P.C. Sharma, Assistant Professor, Department of AGB as member of Project Management Committee of SPP National Dairy Plan reviewed the project.
11. Dr P.C. Sharma, Assistant Professor, Department of AGB and Dr. S.K. Rewani, Assistant Professor, Department of Veterinary & Animal Husbandry Extension Education attended a meeting as Vice Chancellor Nominee regarding modifications of Rajasthan Livestock Development Policy-2010 at Directorate of Animal Husbandry on 25th January, 2019.
12. Dr. Satendra Kumar Yadav, Teaching Associate, Department of LPM delivered Invited Guest Lecture in National Conference on "Smart Agriculture and Food Security" held at Jaipur National University from 18th -20th January, 2019.



## Seminars, Symposia, Workshops, Trainings etc. attended by faculty:

Faculty of the Institute have participated at various Seminars, Symposia, Workshops, Trainings etc. organized throughout the country in order to attain academic as well as research associated knowledge and information.

### Seminars, Symposia, Workshops, Trainings etc. Attended By Faculty

S. No.	Title	Institution and Place where Org.	Date(s) when Organized	Name of faculty Participated
1	CAFT training on "Recent approaches in diagnostic pathology and oncology"	GADVASU, Ludhiana	12/11/2018 to 02/12/2018	Dr. Sarjna Meena,
2	CAFT training on "Recent advances in cell based technologies for animal disease diagnostics and therapeutics"	Lala Lajpat Rai University of Vet. Science & Animal Husbandry, Hisar.	11/10/2018 - 31/10/2018	Dr. S. K. Sharma
3	CAFT training on "Enhancing Core and Advanced Competency Skills in Veterinary Surgery, Diagnostic Imaging and Anaesthesia"	GADVASU, Ludhiana	11.09.2018-01.10.2018	Dr. Y.P. Singh Dr. J. Bargujar
4	CAFT Training on "Updates in the disease diagnosis and treatment protocols in health management on farm and companion animals"	Madras Veterinary College, TANUVAS, Chennai (Tamil Nadu)	21.08.2018-10.09.2018	Dr. M. M. Mali Dr. N. K. Jeph,
5	Short course training programme on "Molecular techniques in sheep reproduction"	ICAR CSWRI, Avikanagar, Tonk (Rajasthan)		Dr. G.S. Gottam
6	Summer School on "Business Incubation and Value Chain Integration for Doubling Farmers' Income"	Directorate of Extension Education, Bihar Agricultural University, Sabour	13.08.2018 - 2.09.2018	Dr. S. K. Rewani,
7	Short course training programme on Modern techniques in pig semen processing and Artificial Insemination	ICAR-Central Coastal Agricultural Research Institute (ICARGOA), Goa.	22-31.10. 2018	Dr. P. C. Sharma
8	International Seminar on "Recent Trends and Experimental Approaches in Science, Technology, Nature and Management".	FDDI, Jodhpur from	23-24.12. 2018	Dr. Vikas Galav
9	"Indian Vetopia-2019"	Gurgaon NCR, Delhi	8-10.02.2019	Dr. Pratyush Kumar
10	National Symposium on "Newer Concepts and Approaches for Improvement in Animal Health and Production".	CVAS, Navania, Udaipur	13-14.12. 2018	Dr. R. Dadhich, Dr. Manish Agrawal, Dr. Pragya Nathiya,
11	XXXIV Annual Convention of Indian Society for Study of Animal Reproduction-2018 and International Symposium on "Productivity Enhancement through Augmenting Reproductive Efficiency of Livestock for Sustainable Rural Economy"	College of Veterinary Science & Animal Husbandry, Anand Agricultural University, Anand, Gujrat.	28-30.12. 2018	Dr. Sumit Prakash Yadav, Dr. Akshay Kumar, Dr. Pratyush Kumar, Dr. Chhote Lal Yadava,
12	XXXVII Annual Convention of Indian Society for Veterinary Medicine National Symposium on "Holistic Approach in Veterinary Medicine for Better Animal Health to Meet Challenges of One Health Mission"	CVAS, RAJUVAS Bikaner	1-3.02. 2019.	Prof. (Dr.) Sanjita Sharma, Dean & Head , Dr. D. S. Meena, Dr. M. M. Mali, Dr. M.C. Parashar, Dr. M. Agrawal, Dr. N. K. Jeph, Dr. Nazeer



S. No.	Title	Institution and Place where Org.	Date(s) when Organized	Name of faculty Participated
13	XXVIII NCVP and National Symposium on "Novel Technologies and Strategies for Sustainable Control of Parasitic Diseases of Livestock, Poultry and Public Health Significance"	Department of Vet. Parasitology, College of Vet. Science, Sri Venkateswara Vet. University, Tirupati, Andhra Pradesh	28-30.01. 2019.	Dr. Bhavana Rathore,
14	National Conference on "Smart Agriculture and Food Security"	Jaipur National University	18th -20th January, 2019	Dr. Navav Singh,
15	CPCSEA training programme	New Delhi	17-18.01. 2019.	Dr. Vikas Galav,
16	Training on "Integrated Livestock and Fisheries Portal"	Bhamasha Techno Hub.	11th March 2019	Dr. Barkha Gupta,
17	SVBBI conference	Hisar	2-3 Nov. 2018.	Dr. Barkha Gupta,
18	National Seminar and IV <sup>th</sup> Convention of AMST Conference	College of Veterinary Science, Gannavaram (A.P.), India.	6 <sup>th</sup> -7 <sup>th</sup> February, 2019	Dr. Ashish Saini,
19	Training on CPCSEA, Indira Paryavaran Bhawan, New Delhi	Ganga auditorium, Indira Paryavaran Bhawan, New Delhi.	17/01/2019 to 18/01/2019	Dr. Nazeer Mohammed
20	2 <sup>nd</sup> National Workshop of ICAR-Board Subject Matter Area (BSMA)	College of Veterinary Science, Palampur (H.P)	12- 13 November,2018	Dr. Rohitash Dadhich
21	2 <sup>nd</sup> National Workshop of ICAR-Board Subject Matter Area (BSMA)	Veterinary College Mumbai	16-17 November,2018	Dr. Dharm Singh Meena

## Co-curricular Activities:

### World Veterinary Day:

Institute celebrated "World Veterinary Day" on 28th April, on the theme of "The role of veterinary profession in sustainable development to improve livelihood, food security and safety". Dr. Anurag Pandey presented a lecture and cultural programme was presented by the students.



### World Milk Day

Institute celebrated "World Milk Day" on 1<sup>st</sup> June and on this occasion Prof. (Dr.) Sanjita Sharma, HOD, Department of Livestock Production Management presented a lecture on "Milk Quality: A1 & A2 Milk". She discussed the importance of A1 and A2 components of milk, adulteration in milk and clean milk production.



## World Environment Day:

Institute celebrated **World Environment Day** on 5<sup>th</sup> June on the theme "Beat the Plastic Pollution", Prof. (Dr.) Vishnu Sharma, Dean, discussed about the ill effects of plastics. A short film on harmful effects of plastics on animals was shown to the students. A Cleanliness Drive was also organized by students and faculty to clean the garbage and plastic wastes from different parts of the institute.



## International Yoga Day:

International Yoga Day was celebrated on 21<sup>st</sup> June. All teaching and non-teaching staffs and students of the institute practiced different Yoga and Pranayam under the guidance of Yoga Teacher Shri R.S. Batar. Prof. (Dr.) Vishnu Sharma, Dean, appealed everyone in his address to include yoga in their daily life. Yoga competition, Quiz competition based on yoga, screening of films and poster exhibition on yoga were also organized on this occasion.

## World Zoonosis Day:

World Zoonosis Day was celebrated on 6<sup>th</sup> July. A free Rabies vaccination-cum-health checkup camp was organized. More than 40 dogs, cats and other animals were examined and vaccinated in this camp.



## National Voters Day Celebration

National Voters Day was celebrated on 25<sup>th</sup> January. Addressing the gathering, Prof. (Dr.) Sanjita Sharma, Dean, appealed everyone to participate in

various elections. All teaching and non-teaching staffs and students took pledge for participating in all elections.

## Prof. (Dr.) Sanjita Sharma appointment as Dean

Prof. (Dr.) Sanjita Sharma, HOD, Department of Livestock Production Management was appointed as Dean, PGIVER, Jaipur and joined her office on 09.08.2018. All teaching and non-teaching staffs and students welcomed her with garlands. Prof. Sharma thanked everyone for their love and affection and invited everyone to join hands for the development of PGIVER during her address.



## Welcome Ceremony of Hon'ble Vice Chancellor

Welcome Ceremony of Prof. (Dr.) Vishnu Sharma, Hon'ble Vice Chancellor, RAJUVAS was organized on 13<sup>th</sup> August, 2018 at PGIVER, Jaipur. All teaching and non-teaching staffs and students welcomed him with garlands. Hon'ble Vice Chancellor thanked all for their love and affection and emphasized on the human qualities like honesty, simplicity and transparency in work during his address. Hon'ble Vice Chancellor and Dean, PGIVER, Jaipur Prof. (Dr.)





Sanjita Sharma planted trees in the campus on this occasion.

## Independence Day Celebration:

72<sup>nd</sup> Independence Day was celebrated, Prof. (Dr.) Sanjita Sharma, Dean, hoisted the national flag and addressed the august gathering. Patriotic songs were presented by the students and faculty members. Mass Plantation Programmes were also organized on the occasion.

## Swatchhta Pakhwara

Swatchhta Pakhwara was initiated in the institute on 15<sup>th</sup> September. A cleanliness drive was organized on this occasion in which all teaching and non-teaching staffs and students participated and cleaned different parts of the college premises.



## Agricultural Education Day Celebration

Agricultural Education Day was celebrated on 3<sup>rd</sup> December. Prof. (Dr.) Sanjita Sharma, Dean congratulated everyone on this occasion and talked about the problems and their solutions in the current agricultural scenario. Dr. Ashok Baidha gave lecture he discussed the contribution of agriculture to national GDP and different ways for doubling the income of the farmers.

## World Soil Day Celebration

World Soil Day was celebrated on 5<sup>th</sup> December. Prof. (Dr.) Sanjita Sharma, Dean addressed the students and told that every citizen has an important role in the prevention of soil pollution. A Poster Competition on "Prevention of soil pollution" was also organized for the students on this occasion.

## Republic Day Celebration:

Institute celebrated 70<sup>th</sup> Republic Day in which Prof. (Dr.) Sanjita Sharma, Dean, hoisted the National Flag and addressed the august gathering. Different cultural programmes like patriotic songs, group dance, poetry etc. were presented by the students. University

Merit Holder students were felicitated on this occasion. All teaching and non-teaching staffs and students participated in this programme.

## Live webcast of the Hon'ble Prime Minister's address:

Faculty members and students actively participated in the live webcast of the Hon'ble Prime Minister's interaction with the students "Pariksha Pe Charcha on 29th January. Hon'ble Vice Chancellor, Prof. (Dr.) Vishnu Sharma encouraged everyone to incorporate various practices in their life suggested by Hon'ble Prime Minister for achieving their goals.

## Meeting of Anti-ragging Committee:

Meeting of Anti-ragging Committee of PGIVER, Jaipur was organised and Chairman of the Committee, Dr. Y.P. Singh, ADSW, faculty members along with representatives of NGOs, Police Administrations, Press & Media and students of the institute participated in this meeting and discussed various steps to control ragging in the campus.

## Inauguration of Newly Constructed Building of PGIVER

Inauguration Function of newly constructed building of PGIVER, Jaipur was organized on 5<sup>th</sup> September, 2018. Dr. Prabhu Lal Saini, Hon'ble Minister for Agriculture, Horticulture, Animal Husbandry and Fishery was the Chief Guest on this occasion. Shri Ashok Parnami, Hon'ble MLA, Adarsh Nagar, Shri Khemraj, Additional Chief Secretary, Animal Husbandry, Prof. (Dr.) Vishnu Sharma, Hon'ble Vice Chancellor, RAJUVAS, Dean and Directors of RAJUVAS, Officials of Animal Husbandry Department, teaching and non-teaching staffs and students of PGIVER, Jaipur were present on this occasion.





## Orientation programme of B.V.Sc. & A.H. students:

Orientation programme of newly admitted B.V.Sc. & A.H. students was organized on 15.09.2018. Prof. (Dr.) Sanjita Sharma, Dean welcomed the students and enlightened them about the functional activities and achievements of the institute. Academic Coordinator informed them about the course curriculum, attendance, time table etc.

## Vasant Panchami Celebration:

Institute celebrated "Vasant Panchami" on 09.02.2019. All teaching and non-teaching staffs and students were present on this occasion.

## Sports & Cultural Week:

Sports & Cultural Week was organized from 21<sup>st</sup> to 27<sup>th</sup> February, 2019. Various competitions in Tug of war, Volleyball, Table Tennis, Chess, Carom, Kabbadi, Badminton, Kho-Kho, Cricket, Athletics (Disc Throw, Javelin Throw, Shot Put Throw, Race, Long Jump etc.) were organized. Various competitions in Music, Dance, Skit, Mime, Painting, Collage, Clay Modeling, Literary events etc. were also organized for the students.

## Interactive Programme for students

1. An interactive session with Dr. Dinesh Bhosale on "Opportunities for Veterinarians in Private Sector" was organized for students on 9th April, 2018.
2. An interactive session with Dr. C.P. Juyal, Assistant Director, Fisheries Department was organized for students on 5th May, 2018.

## Motivational programme:

A Motivational lecture on "Potential in Animal Husbandry Sector and Secrets for Success in Life" was delivered by Mr. Khemraj, Retired IAS and Ex. Additional Chief Secretary, Department of Animal Husbandry, Government of Rajasthan. While discussing about the secrets of success, he told that we should develop good thoughts and implement them in our life. We should use soft skills along with technical skills for getting success.

## Fresher's Day:

Fresher's Day" was organized on 25th January to welcome the newly admitted students in the B.V.Sc. & A.H. Course. Dean Prof. (Dr.) Sanjita Sharma formally welcomed the students and briefed them about the different activities and achievements of the institute

## Social Awareness Programme

NSS Camp of 50 students was organized at adopted village Kanarwas from 11th-17th March, 2019. The students carried out various awareness programmes in the village on cleanliness, dowry, drug addiction, child marriage, education, vaccination in animals, advanced animal husbandry practices etc.

## Educational Tour programme:

- Two days Educational Tour of 1st year B.V.Sc. & A.H. students was carried out from 26th-27th June for visiting Piggery Farm at Bhanpur Kalan, Jaipur, Dairy Farm at Beelwari, Viratnagar, Jaipur, Poultry Farm at Higonja, Jobner, Jaipur and Wild Life (Jaipur Zoo and Nahargarh Wild Life Reserve).
- Four days Wild Life Educational Tour of 3rd year B.V.Sc. & A.H. students was carried out from 28th-31st May, 2018.

## "Surgical Strike Day" Celebration of at PGIVER, Jaipur

Surgical Strike Day was celebrated on 29<sup>th</sup> September, 2018 at PGIVER, Jaipur. More than 200 students participated in this event. The students depicted gallantry and courage of the soldiers through paintings, posters, slogans, letters etc. An exhibition of these creations was also organized for the teaching and non-teaching staffs and students of the institute.

## Celebration of "National Unity Day"

On the occasion of 143<sup>rd</sup> Birth Anniversary of Sardar Vallabh Bhai Patel, "National Unity Day" was celebrated on 31<sup>st</sup> October, 2018 at PGIVER, Jaipur. Run for Unity was organised in which a large number of teaching and non-teaching staffs and students participated and took National Unity Pledge. Different competitions like Elocution, Poster Making etc. were organized for students.





## Publications:

### (I) Research: Articles Published

- Hari Singh, G.L. Meena, Latika Sharma, Manoj Kumar Jangid, Bharat Bhushan and Manju. Resource Use Efficiency in Integrated Farming Systems of Banswara District of Rajasthan. *Journal of Animal Research* 2018; 8(4): 01-06.
- Kumar, A., Mishra, A.K., Swain, D.K., Singh, V., Yadav, S. and Saxena, A. (2018). Role of transient receptor potential channels in regulating spermatozoa functions: A mini-review. *Veterinary World*, 11 (11): 1618-1623.
- Kumar, S., Subhash, S., Baindha, A. and Jangir, R. (2018). An Inventory of Ethno-Veterinary Medicine (EVM) for Treatment of Indigenous Cattle in Western Rajasthan, India. *Journal of Community Mobilization and Sustainable Development*, 13 (3): 403-409.
- Kumar, V., Pal, V.K., Singh, A., Singh, D., Rewani, S.K. and Gawali, V.M. (2018). In-Vivo Anthelmintic Efficacy of Ethanol Extract Polyherbal Mixtures against Gastrointestinal Nematodes in Sheep. *Multilogic in Science*, 8 (Spl.): 321-323.
- Mahendra Pal Poonia, Sanjita Sharma, Navav Singh and Amit Sharma (2018) "Effect of non genetic factors on somatic Cell Count in Sirohi Goats" *Int. J. Curr. Microbiol. App. Sci.*, 7 (3): 3164-3170.
- Manju, R. K. Dhuria, R. K. Khinchi, Padma Meel and M. S. Meel. Effect of Herbs as Feed Additive on Rumen Fermentation Patterns and Haemato-biochemical Parameters in Marwari Rams Fed Wheat Straw Based Complete Feed. *International Journal of Livestock Research* 2019; 9(2): 32-40.
- Manju, C S Vaishnava, Rakesh Kumar Khinchi, Padma Meel, Sunil Kumar and Monika Karnani. Proximate analysis and chemical composition of Moringa oleifera seeds and its use in broilers diet. *International Journal of Chemical Studies* 2018; 6(4): 563-566.
- Manju, R. K. Dhuria, R. K. Khinchi, Padma Meel and M. S. Meel. Evaluation of In vitro Gas Production and Digestibility of Wheat Straw Based Complete Feed Supplemented with Different Levels of Herbs in Rumen Liquor of Marwari Sheep. *International Journal of Livestock Research* 2019; 9(1): 80-85.
- Manu Jaiswal, Mohammad Nazeer, Rajat Varshney, Kuldeep Saini, Grijesh Upmanyu and Rupam Sinha (2019). Clinical Management of Contagious Ecthyma in Goats- A Case Report. *International Journal of Current Microbiology and Applied Sciences*. 8(2): 879-883.
- Manu Jaiswal, P.C. Shukla, Alok Mishra, Grijesh Upmanyu, Pratyush Kumar, Mohammed Nazeer, Rajesh Bandre and Rupam Sinha (2019). Effect of Glutamine and Zinc containing Rehydration Electrolyte Solution on Serum Protein and Electrolytes in Cattle Calves having Acute Diarrhoea. *International Journal of Current Microbiology and Applied Sciences*. 8(2): 2165-2175.
- Mittal, P.K., Gottam, G.S., Gupta, B. and Bilochi, D.R. (2019). The effect of climate change on productivity and reproductive and health performance of livestock: A review. *Journal of Entomology & Zoology Study*, 7 (2), 4-9.
- Mohammed Nazeer, Sandeep Kumar, Manu Jaiswal, Alok Mishra, Grijesh Upmanyu, Pratyush Kumar and Sirigiri Ashok Kumar (2019). Prevalence and clinical manifestations of ketosis in cows in and around Bikaner. *International Journal of Current Microbiology and Applied Sciences*. 8(3): 1554-1560.
- Monika Karnani, Vishnu Sharma, Sanjita Sharma, Sheela Chaudhary, Samita Saini, Manju and Navav Singh (2018) Effect of linseed oil supplementation on performance and carcass traits of broiler chicken. *Indian Journal of Animal Production and Management*. Vol. 34 (3-4)
- Padma Meel, ML Gurjar, RK Nagda, MC Sharma, Lokesh Gautam and Manju. Effect of Moringa oleifera leaves feeding on hemato - biochemical profile of sirohi goat kids. *Journal of Entomology and Zoology studies* 2018; 6(5): 41-48.
- Padma Meel, ML Gurjar, RK Nagda, MC Sharma, Lokesh Gautam and Manju. Growth performance of sirohi goat kids fed different levels of Moringa oleifera leaves. *Journal of Entomology and Zoology studies* 2018; 6(4): 786-791.
- Padma Meel, ML Gurjar, RK Nagda, Shweta Choudhary, Manju and Mahendra Meel. Effect of feeding different levels of Moringa oleifera leaves on digestibility of nutrients in Sirohi goat kids. *International Journal of Chemical Studies* 2019; 7(2): 1404-1408.

- R K Khinchi, S K Sharma, Deepika Goklaney, R K Dhuria, Sunanda Sharma, Mukesh parashar, Sandhya Morwal and Manju. Superficial pyoderma in canines in southern part of Rajasthan- A detailed epidemiological study. *International Journal of Chemical Studies* 2019; 7(3): 2737-2740.
  - R K Khinchi, S K Sharma, Deepika Goklaney, Sandhya Morwal and Manju. Haemato-Biochemical Alterations in Dogs Affected with Superficial Pyoderma. *International Journal of Current Microbiology and Applied Sciences* 2019; 8(5): 1759-1763.
  - Rajesh Kumar, Manisha Mathur, Monika Karnani, Sunil Dutt Choudhary and Deepika Jain. Hydroponics: An alternative to cultivated green fodder: A review *Journal of Entomology and Zoology Studies*-2018, vol-6(6) & 791-795.
  - Ranjan, S., Rewani, S.K., Pal, V., Tothhawng, L. and Ganguli, D. (2018). Dairy Farmers' Satisfaction towards Livestock Service Delivery of NGOs in Bihar. *International Journal of Livestock Research*, 8 (5): 136-142. doi: 10.5455/ijlr.20170612053712.
  - Saini, K., Rathore, B., Sumbria, D., Monika., Varshney, R., Jaiswal, M., Gurjar, T., Meena, A. and Panwar, P. (2018). First case report and triumphant treatment of Theileriosis in 19 days old crossbred cattle calf in the Jaipur. *Journal of Entomology and Zoology Studies*, 6 (6): 1059-1061.
  - Saini, V.P. and Choudhary, S. Effect of feeding Shatavari (*Asparagus racemosus*) root powder on certain blood mineral profile of crossbred cows. *International Journal of Current Microbiology and Applied Sciences* Vol. 7(9): 1535-1542.
  - Saini, V.P., Choudhary, S., Tanwar, R., Choudhary, S.D., Sirvi, S.P. and Yadav V. Effect of feeding Shatavari (*Asparagus racemosus*) root powder on qualitative and quantitative parameter of milk in crossbred cows. *International Journal of Current Microbiology and Applied Sciences* Vol. 7(8): 3265-3277.
  - Sanjita Sharma, Vishnu Sharma, Manisha Mathur, Navav Singh and Anurag Pandey (2017) "Monitoring of common adulterants in raw milk in different agro-climatic zones of Rajasthan" *Indian J. Anim. Prod. Mgmt.*, 33 (1-2): 67-71.
  - Sharma, S. and Mathur, M. (2018). Quantitative Estimation of Urea Adulteration in Raw Milk of Rajasthan. *Journal of Animal Research*, 8 (3): 459 - 462. DOI:10.30954/2277-940X.06.2018.20.
  - Sharma, S., Sharma, V., Singh, R., Pandey, A. and Singh, A. (2019). Screening of oxytetracycline residue in cattle milk collected from Jaipur, Rajasthan. *Journal of Entomology and Zoology Studies*, 7 (2): 283-287.
  - Singh, D., Pal, V.K., Singh, A., Kumar, V., Rewani, S.K. and Gawali, V.M. (2018). In-Vivo Anthelmintic Activity of Three Herbal Plant Mixtures against Gastrointestinal Nematodes in Goats. *Multilogic in Science*, 8 (Spl.): 318-320.
  - Singh, V., Rewani, S.K., Rajoria, S., Wani, S.A., Singh, N. and Singodia, M. (2018). Milk Production, Consumption and Disposal Pattern of Women Dairy Cooperative Society Members in Jaipur (Rajasthan). *International Journal of Livestock Research*, 8 (11): 190-194. doi: 10.5455/ijlr.20180320065318.
  - Singh, V., Rewani, S.K., Saini, G. and Singodia, M. (2018). Economic Empowerment of Women through Dairy Cooperatives in Jaipur District of Rajasthan. *International Journal of Livestock Research*, 8 (5): 319-326. doi: 10.5455/ijlr.20170719105854.
  - Singodia M., Rewani S.K., Baindha A., Chand S., and Saini G.R., (2018) Availability and Utilization of ICT Facilities for Poultry Industry. *Poultry Technology*, 12 (9): 160.
  - Yadav, S.K., Singh, P. and Singh, N. (2019). Effect of testicular consistency on semen quality of Murrah buffalo breeding bulls. *Indian J. Dairy Sci.*, 72 (1): 93-96.
- Transfer of Technology:**
- M- RAJUVAS Android Educational Mobile Application for Veterinary & Animal Sciences and Kiosk Information System for Farmers / Livestock Owners - transferable technology developed by PGIVER, Jaipur. M-RAJUVAS is the first Android Educational Mobile Application in India for both Veterinary Students and Livestock owners and is available for free download at the (Google) Play store.
- Popular Article:**
- Bunkar, M.K., Pandey, A., Kumari, S., Ambedkar, Y.R., Thakur, N., Saini, A., Tanwar, R., Saini, A.,



- Sharma, M., Meel, S.K. and Chauhan, V.K. (2019). Membrane processing in Dairy Industry. Dairy Planner, 16 (2), 16-17.
- Dhakad, G.S., Singh, N., Chandra, V., Yadav, S.K., Yadav, D. and Rao, S. (2018). Oonton ke sarankshan wa samvardhan se hogi kisano ki aay doguni. Swabhiman Yug Samsamayik, October-2018
  - Gupta, P., Kumar, A. Mittal, P.K., and Gupta, B. (2019). Gou Pashuon me jer ka rukana, Karan aur Nidan. Haldhar Times.
  - Kumar, A., Kumar, P. and Devender (2018). Bakriyon wa Bhedon me munha rog. Krishak Aradhana, October-2018.
  - Kumari, S., Pandey, A., Meena, P. and Chaudhary, R. (2018). Milk protein and human health: A Review. Bhartiya Krishi Anusandhan Patrika, 33 (2): 136-138.
  - Meena, P., Pandey, A., Saini, A. and Kumari, S. (2019). Egg white proteins and their use in Food Processing. Poultry Planner, 21 (2). 24-26.
  - Mittal, P.K., Gottam, G.S. and Gupta, B. (2019). Pashu rogon ke nidan hetu mutra wa rakt sambandhi awashyak jaiv-rasayainik parikshan. Pashu Palan Naye Aayam, 6 (6): 5.
  - Mittal, P.K., Gottam, G.S., Gupta, B. and Bilochi, D.R. (2019). Pashuon me garmi ke lakshan and kritim garbhadhan ka mahattav. Krishak Aaradhana.
  - Mittal, P.K., Gottam, G.S., Gupta, B., Bilochi, D.R., Gupta, P. and Kumar, A. (2019). Pashuon me rakt parjivirog. Haldhar Times.
  - Saini, A., Chandra, V., Yadav, S.K., Singh, N., Bunker, M.K., Dhakad, G.S. and Yadav, D. (2018). "Navjaat Pashu-Sishu Ki Janam Se Pahle, Janam Ke Samay Avam Janam Ke Bad Dekhbhal". Swabhiman Yug, December-2018.
  - Saini, A., Pandey, A. and Meena, P. (2019). "Dahi: Ek chamatkari aushdhi". Krishi Gold Line. Page no. 7 (January 2019).
  - Saini, A., Pandey, A., Kumari, S., Ambedkar Y.R. and Thakur, N. (2019). Eggs: are they good or bad for human cholesterol. Poultry Planner. 21 (03), 10-11.
  - Satendra Kumar Yadav, Navav Singh, Pawan Singh and Sanjita Sharma "Lameness: Health and Productivity of dairy cows" Indian Dairyman magazine (June, 2018 issue).
- Book**
- Book titled "Antimicrobial Resistance: Concepts, Methodologies and Strategies to Overcome" authored by Sharma, S.K., Galav, V., Agrawal, M. and Faridi, F. N. has been published by Narendra Publishing House, New Delhi (INDIA) with ISBN No. 978-93-87590-95-3. Bp. 1-178.
  - Manual on "Research Techniques in Animal Nutrition" authored by Choudhary, S
  - Manual on "Poultry Production" authored by Dr Samita Saini and Dr Sanjita Sharma
  - Manual on "Animal Genetic Resources of Rajasthan" authored by Dr Samita Saini and Dr P.C.Sharma
- Campus Visit**
- Fifty-seven (57) students of Jyoti Vidhyapeeth Women's University Ajmer Road, Jaipur on 20th April, 2018.
  - Final year students from College of Veterinary & Animal Science, Bikaner on 25th April, 2018.
  - Educational awareness visit of livestock farms of PGIVER, Jaipur and training of 120 Animal Science students of J.N.U., Jaipur was conducted by Department of LFC.
  - One day educational awareness visit and training of 110 Animal Science students of Mahatma Jyoti Rao Phoole University, Jaipur was conducted by Department of Livestock Production Management.
  - Final year students from Veterinary College, S.K. Nagar, Dantiwada on 12.01.2019.
  - "Educational Tour" of students from Kerala Veterinary College on 02/03/2019 and Dantiwada Veterinary College, Sardarkrushinagar on 08/03/2019.
  - Final year students from Veterinary College, Anand on 19.03.2019.

## 5. RESEARCH

### 5.1 Directorate of Research for Veterinary and Animal Science, Bikaner

Directorate of Research governs the research activities at eight Livestock Research Stations located at Chandan (Jaisalmer), Nohar (Hanumangarah), Beechwal (Bikaner), Kodamdesar (Bikaner), CVAS, Bikaner, Navania (Vallabh Nagar), and Bojunda (Chittorgarh), Dug (Jhalawar). Institutional as well as project research were conducted in different disciplines at CVAS, Bikaner, CVAS, Navania and PGIVER, Jaipur. Four types of research works are being conducted at Rajasthan University of Veterinary and Animal Sciences, Bikaner are Farm Based Research, Field Based Research, Institutional Research and Student's Research.

#### The Directorate is functioning with following mandate:

1. To plan, initiate, guide, co-ordinate and monitor the production oriented research in the field of veterinary and animal sciences.
2. To formulate veterinary and animal science research programmes and proposals, their effective implementation, co-ordination and progress monitoring.
3. To supervise and control the Livestock Research Stations of the university.
4. To maintain liaison with State and Central Government, ICAR, DST and other national and international funding agencies for obtaining the financial support for various veterinary and animal science research programmes for the State.
5. Transfer of technology at grass root level in the form of package of practices for improved animal husbandry and production.
6. To extend consultancy and expertise in the field of veterinary and animal sciences.
7. To monitor animal health programme through disease investigation and surveillance by the Research Centre for Livestock Health and Production to prevent animal morbidity and mortality.

### Research Stations

#### On Campus Research Stations

1. Livestock Research Station, Bikaner
2. Apex Centre, Bikaner
3. Institutional Research at CVAS, Bikaner

#### Off Campus Research Stations

1. Livestock Research Station, Beechwal (Bikaner)
2. Livestock Research Station, Kodamdesar (Bikaner)
3. Livestock Research Station, Nohar (Hanumangarh)
4. Livestock Research Station, Chandan (Jaisalmer)
5. Livestock Research Station, Vallabh Nagar (Udaipur)
6. Livestock Research Station, Bojunda (Chittorgarh)
7. Post Graduate Institute for Veterinary Education and Research (PGI-VER), Jaipur
8. College of Veterinary and Animal Science, Navania, Vallabh Nagar (Udaipur)

### 5.2 Farm and Field Based Research:

The farm based research is being conducted at all the Livestock Research Stations, viz., Chandan, Nohar, Beechwal, Kodamdesar, Vallabh Nagar, Bojunda, Bikaner and Dug for improvement in performance traits and enhancement of livestock feed and fodder production.

#### Livestock Research Station, CVAS, Bikaner

#### Evaluation and Improvement of Rathu Cattle through Breeding

Rathu is a well-known cattle breed of North-Western desert of Rajasthan State. The purebreds are maintained in Bikaner, Sriganganagar and Hanumangarh districts. With the onset of cross breeding programmes this pure bred indigenous germ plasm of cattle was endangered. Therefore it has become necessary to conserve Rathu breed in its home tracts along with evaluation and improvement for utilization in the field for upgrading and selective breeding.

## Objectives:

- Improvement, evaluation and conservation of Rathi cattle germplasm.
- To study genetic aspect of performance for improvement in milk production.
- Distribution and sale of Rathi germplasm to the farmers and development agencies.
- Transfer of production technology at grass root level.



## Herd strength of Rathi cattle at LRS, Bikaner during year 2018-19

S. N.	Category	Opening Balance 01-04-18	Additions				Reduction				Closing Balance 31-03-19
			Birth	Transfer	Purchase	Total	Death	Sale	Transfer	Total	
A		Female									
1	0-3 Months	22	55			55	6	9	0	15	18
2	3-6 Months	17					0	1	0	1	09
3	6-12 Month	22					3	0	0	3	17
4	1-2 Years	51					4	6	0	10	53
5	2-3 Years	47					3	13	0	16	36
6	> 3 Years	30					3	20	26	49	17
7	Cows	164		26		26	10	62	0	72	118
	Total	353	55	26		81	29	111	26	166	268
B		Male									
1	0-3 Months	14	61			61	7	6	0	13	27
2	3-6 Months	10					0	1	0	1	06
3	6-12 Month	23					1	13	0	14	08
4	1-2 Years	34					5	36	6	47	09
5	2-3 Years	29					2	16	21	39	02
6	> 3 Years	08					2	4	7	13	00
7	Breeding Bulls	04		4		4	1	1	1	3	05
8	Bullocks	02					0	0	0	0	02
	Total	124	61	4		65	18	77	35	130	59
Grand Total		477	116	30		146	47	188	61	296	327

## Production performance:

The production traits including Total Lactation yield, 300 days yield, Lactation length, Peak Yield, Dry Period, Wet average and herd average is given below.

S. No.	Production trait	Average of Rathi
1.	Total Lactation yield (lit.)	1973.35
2.	300 days yield (lit.)	1964.31
3.	Lactation length (Days)	272.39
4.	Peak Yield (Lit.)	11.43
5.	Dry Period (Days)	135.58



## Wet average and Herd average:

The highest wet average 7.74 liters was recorded in the month of March and lowest 6.60 liters in the month of November. The overall wet average was 7.12 liter and herd average 3.66 liter was observed.

## Reproduction performance:

The average reproduction performance of cattle of LRS like Age at first service (AFS), Age at first calving (AFC), Calving interval (CI) and Service Period (SP) is given in below table.

S No.	Reproduction trait	Time in days
1.	Age at first service (AFS)	955.13
2.	Age at first calving (AFC)	1222.91
3.	Calving interval.	411.11
4.	Service Period.	129.50

## Health status and Mortality:

There was no specific diseases was found. During the year 47 animals were died among them 13 animals in birth to 6 months, 4 animals in 06-12 months, 09 animals in 1-2 years and 10 animals above 2 yrs. age groups and 11 adult animals were died. Overall mortality percentage in herd was 3.95%.

## Salient Achievements:

23 cows produced more than 2000 liters of Milk in single lactation in the elite herd. The average peak milk yield, lactation length and lactation yield of this cow were 16.50 kg, 294 days and 2594 kg respectively. In total 10 heifers calved during the year and the average age at first calving was 39.28 months.

## Distribution of elite germ plasm:

The improved germplasm is sold to the Department of Animal Husbandry, Gaushalas, Gram Panchayats, NGOs, farmers and other development agencies. The progressive breeders purchased the cows, bulls and heifers on book value and at the time of auction. During year of 2018-19 total 220 Rathi animals including 109 male and 111 females were distributed.

## Income:

During the year Total income generated by sale of milk, animals, vermicompost and farm yard manure is 64,22,805 (Sixty four lacs twenty two thousands eight hundred five only).

## Livestock Research Station Beechwal

### Conservation, Evaluation and Improvement Tharparkar Cattle Farm (State Plan/RKVY)

Livestock Research Station, Beechwal was established in the year 2000 on 233 ha land allotted to it.

## Objectives wise Targets and Achievements:

- The sub unit of Tharparkar cattle project under STATE PLAN/ RKVY at LRS Beechwal is functioning with objectives of main unit at LRS Chandan.





- To increase population of upgraded and improved Tharparkar germplasm through selective breeding.
- Distribution of improve Tharparkar germplasm for up gradation of animals in field beneficiaries.

## Herd Strength of Tharparkar cattle under RKVY project at LRS Beechwal (2018-19):

S. No.	Category	Opening Balance April 2018	Addition				Reduction				Closing Balance March 2019
			Birth	Transfer	Purchase	Total	Death	Sale	Transfer	Total	
	Female										
1.	0-3 month	04	27	-	-	27	01	01	19	21	10
2.	3-6 month	03	-	19	-	19	-	-	21	21	01
3.	6-12 month	03	-	21	-	21	-	04	09	13	11
4.	1-2 year	25	-	09	-	09	-	03	22	25	09
5.	2-3 year	24	-	22	-	22	-	06	24	30	16
6.	>3 year	09	-	19	-	19	-	03	13	16	12
7.	Cows	49	-	18	-	18	02	11	-	13	54
Total Females		117				135				139	113

S.No.	Category	Opening Balance April 2018	Addition				Reduction				Closing Balance March 2019
			Birth	Transfer	Purchase	Total	Death	Sale	Transfer	Total	
	Male										
1.	0-3 month	14	28	-	-	28	01	03	21	25	17
2.	3-6 month	03	-	21	-	21	01	-	22	23	01
3.	6-12 month	04	-	22	-	22	-	09	12	21	05
4.	1-2 year	01	-	12	-	12	-	06	-	06	07
5.	2-3 year	-	-	-	-	-	-	-	-	-	-
6.	>3 year	-	-	-	-	-	-	-	-	-	-
7.	Breeding bulls	02	-	-	01	01	-	01	-	01	02
8.	Bullocks	01	-	-	01	01	-	-	-		02
Total male		25				85				76	34
Grand Total		142				220				215	147

## Achievements:

- Total milk production during the year was 1, 14,786.5 kg. The wet average was 8.97 kg and Herd average was 6.19 kg.
- Averages for lactation length, lactation yield, 305 days yield and peak yield of 43 cows was 282 days, 2851 kg, 2494 kg and 13.11 kg/day respectively.
- During the year 12 heifers were calved, their Average Age at First Calving was 2.9 years. Lowest age at first calving was 02year 08 months 10days in cow no. 96 where as highest age at first calving was 04year 04 months 18days in cow no. 100.
- The average calving interval of 37 cows calved during last year was observed as 399.05 days,

average dry period was 110.51 days and service period was observed as 109.97 days

- During the year 47 animals were supplied to different organizations, Gaushala and farmers. Out of 47, 19 animals were male and 28 were females.

## Sirohi Goat Breeding Project (Revolving Fund)

A Goat Unit was started at LRS, Beechwal on 18.09.2017 to strengthen the livestock activity with the objective to develop as a model Sirohi goat breeding farm for demonstration of farmers which are willing to start goat farm to raise their socio economic status under arid conditions.



On dated 17-09-2017, thirty (30) Goats and one Buck was purchased from LRS Bojunda, Chittorgarh. On dated 09-10-2017, one Buck was purchased from Central sheep & wool research institute (CSWRI), Avikanagar.

### Objectives wise Targets and Achievements:

1. To increase population of upgraded and improved Sirohi Goat germplasm through selective breeding.
2. Distribution of improve Sirohi Goat germplasm for upgradation of animals in field.

### Flock Strength Sirohi Goat (2018-19):

The opening balance of the flock was 84 (22 male and 62 female) and Closing Balance was 90 (27 male and 63 female). During the year 61 kidding took place (34 male and 27 female). The average body weight of kids 3.27 kg and average body weight of dam at kidding was 42.05 kg. 14 male were sold, 01 male and 03 female were die.

### Green Fodder and Seed Production

#### Fodder production:

Fodder varieties of pearl millet, sorghum, oat, lucerne and chinese cabbage were sown for fodder production programme under revolving fund at the agriculture farm of the station. During the year, 6343.80.Qtl of green fodder was produced of which 2657.80 Qtl was used for the farm animals at LRS Beechwal and remaining 3686.00 Qtl was sold to other units of RAJUVAS. The other crops were cultivated as per requirement for the purpose of feed and fodder for animals of the station and other units of the University and revenue generation.

During the year 2018-19 total seed/grain production was around 491.02 Qtls. For the rabi season

crops of wheat and Gram were harvested whereas during Kharif season cultivation of groundnut, guar, moong and moth crops was done.



### Seed/Grain production:

In Rabi (2018-19) Wheat crop produced was 190.00 Qtls and gram produced was 36.50 Qtls. Whereas in Kharif crop (2018) Groundnut produced was 200.10 Qtls, Guar 22.50 Qtls, Moong 16.00 Qtls and Moth 25.92 Qtls was produced.

### Cattle feed plant unit:

Cattle feed plant unit is successfully established at our station for making processed feed for Cattle and Goats of our station only.

Ingredients used for making feed at station are Cotton seed cake, DCP, DORB, Moong churi, Guar korma, Trace minerals, LSP, Rice polish, Soda bicarb, Wheat Bran, Salt, Soya chouri, Biotox, Tox free, Maize groat, Lvsine, Methionine, Nutrition oile.

### Future Targets:-

At LRS Beechwal, we will going to start Artificial Insemination (A.I.) at the earliest. Further, in the future, we are looking forward to setting up this farm as an advanced organic farm.





## Livestock Research Station Kodamdesar

### Conservation, Evaluation and Improvement of Kankrej Cattle through Breeding

The livestock research station, Kodamdesar, Bikaner is having 3000 acre of farm land with water supply of IGNP canal. It is situated only 30 Km away from the district headquarter and RAJUVAS university. Facilities for housing, feeding, watering, grazing of animals have been developed scientifically for a large number of livestock. Kankrej, Sahiwal cattle and Bikaneri Chokla (Magra) sheep are being maintained at the station. The project on Kankrej cattle started from the year 2009-10. One cow has produced 4033.7Kg milk in a single lactation. Peak yield of 22.00 kg in 55 days has been achieved. Efforts are made to make available superior Kankrej germplasm with farmers.

#### Objectives:

- Improvement, evaluation and conservation of Kankrej cattle.
- To study genetic aspect of performance for improvement in milk production.
- Distribution and sales of Kankrej germplasm to the farmers and development agencies.
- Transfer of production technology at grass root level.



#### Herd strength:

The age and sex-wise herd strength of Kankrej cattle is presented in table given below.

Category of Animal	Opening Balance (01/04/2018)		Closing Balance (31/03/2019)	
	Females	Male	Female	Male
0-3 month	22	24	9	14
3-6 month	24	18	10	18
6-12 month	34	45	23	19
1-2 Year	68	60	69	69
2-3 Year	65	50	50	38
Above 3 Years	37	15	48	28
Cows	219	3	155	3
Bullocks	-	1	-	1
Total	469	216	364	190

#### Mortality:

During the year 2018-19 the overall mortality was reported as 7.52 %. Highest mortality was recorded in 1-2 year age-group (21) which suggests that better management practices are required for this age group calves. 29 Female were died and 22 males were died. Percent mortality was 6.25 in female as compared to 10.28 in males.

#### Production and Reproduction performance:

The average milk production per lactation 1370 kg, Lactation length per cow 203 days, Calving interval 402 days, Dry period 198 days, Age at first calving 1525 days, Days to attain peak yield 55 days, Wet average 5.8 kg and Herd average 2.3 kg respectively. Highest lactation yield was recorded as 3024.1 kg during this financial year.

## Distribution of germplasm of Kankrej cattle:

A total of 221 animals (80 bull calves, 80 female calves/heifers and 61 adult cows) were distributed and sold to different gaushalas / farmers / developmental agencies during this financial year.

## Sheep unit:

LRS is also maintaining Bikaneri Chokla (Magra) sheep flock. It is one of the superior carpet wool producing breeds which can be used for genetic improvement in the farmers flock. Superior rams/ewes are made available to the farmers. Age group-wise and sex-wise dynamics of the flock strength are presented in table given below.



## Flock Strength (Bikaneri Chokla):

Particulars		Sex	Age Group				Total	Grand total
			0-3 month	3-6 month	6-12 month	adult		
Opening Bance (01/04/2018)		Male	19	16	11	3	49	205
		Female	18	19	18	101	156	
No of Increase	Birth	Male	66	-	-	-	66	138
		Female	72	-	-	-	72	
	Purchase	Male	-	-	-	-	-	
		Female	-	-	-	-	-	
	Total	Male	66	-	-	-	66	138
		Female	72	-	-	-	72	
No. of Decrease	Died	Male	-	-	01	01	02	17
		Female	-	-	-	15	15	
	Sale	Male	-		22	30	52	122
		Female	-		28	42	70	
	Total	Male	-		23	31	54	139
		Female	-		28	57	85	
Closing Balance (31/03/2019)		Male	16	24	13	08	61	204
		Female	12	28	06	97	143	

## Sale of superior germplasm:

A total of 122 animals (52 male and 70 female) were sold during 2018-19 to different progressive sheep breeders of Rajasthan on book value of CSWRI.

## Sewan grass and green fodder production:

During this financial year 100 acre land was used for cultivation of Sewan grass. Land has been prepared for crop production. Production of green fodder and fodder seeds have been started from this year. Out of five doggies (each of 1 crore lit. water capacity) four diggies have been given under contract farming @ 22 lakh / year. About 1000 Qtl. Green fodder was produced during this year.

## Sahiwal Cattle Breeding Farm

The project was implemented from the year 2013-14 at Livestock Research Station, Kodemdesar for undertaking conservation, evaluation and improvement of Sahiwal cattle germplasm through selective breeding. The performance evaluation has shown encouraging results. Superior Sahiwal germplasm is made available to the farmers. Sahiwal bulls are provided to the farmers/gaushalas/village panchayats for genetic improvement purposes. Sahiwal bulls are also provided to the semen stations priority basis.

## Objectives

- Evaluation, improvement and conservation of Sahiwal cattle.
- To study genetic aspect of performance for improvement in milk production.
- Distribution and sales of Sahiwal germplasm to the farmers and development agencies.
- Transfer of production technology at grass-root level.



## Herd strength

The opening and closing balance along with age group-wise dynamics of the herd are given below in table. The herd strength at the beginning for the year was 599 animals and at the end it was 273.

Category of animal	Opening balance (as on 1/4/2018)		Closing balance (as on 31/3/2019)	
	Female	Male	Female	Male
0-3 month	13	13	8	7
3-6 month	20	8	9	9
6-12 month	39	49	21	22
1-2 Year	53	52	24	22
2-3 Year	27	45	16	3
Above 3 Year	34	20	10	2
Cows	218	8	113	7
Total females	404	195	201	72

## Percent Mortality:

Average animals at risk were 528.58 and total 21 animals died. The overall percent mortality was recorded as 4.02% during 2018-19.

## Production and reproduction performance:

The average milk production per lactation 1934 kg, lactation length per cow 270 days, calving interval 440 days, dry period 165 days, age at first calving 42 months (best AFC 28.5 month was recorded), average days to attain peak yield 70 days, wet average 6.53 kg and herd average 3.05 kg respectively.

## Distribution of superior germplasm:

During the period 114 males were distributed to Gaushalas/ Village Panchayats. 63 animals were sold out of them 42 were Heifer, 10 Bull calves and 07 cows with 04 followers. During the period 254 animals were auctioned.

## Livestock Research Station Nohar

### Conservation, Evaluation and Improvement of Rathii Cattle through Breeding

Livestock Research Station Nohar is maintaining a herd of Rathii cattle to disseminate superior germplasm is only in Hunumangarh, Sri Ganganagar and adjoining districts of Rajasthan and Hariyana.

#### Objectives:

- Conservation, Evaluation and Improvement of Rathii cattle germplasm.
- To study genetic aspect of performance for improvement in milk production.
- Distribution and sale of Rathii germplasm to the farmers and development agencies.
- Transfer of production technology at grass root level.





## HERD STRENGTH

S No	Category of Animal	Opening Balance	Addition				Reduction				Closing Balance
			Birth	Others	Transfer	Total	Death	Sales	Transfer	Total	
A.	<u>Female</u>										
1	0-3 month	07	43	-	-	50	04	01	30	35	15
2	3-6 month	06	-	-	30	36	-	-	26	26	10
3	6-12 month	05	-	-	26	31	-	-	15	15	16
4	1-2 Year	33	-	-	15	48	01	-	25	26	22
5	2-3 Year	19	-	-	25	44	-	07	22	29	15
6	Above 3 Years	09	-	-	22	31	-	-	19	19	12
7	Cows	78	-	-	19	97	02	10	-	12	85
Total Female (A)		157	43	-	137	337	07	18	137	162	175

B.	<u>Male</u>										
S No	Category of Animal	Opening Balance	Addition				Reduction				Closing Balance
			Birth	Others	Transfer	Total	Death	Sales	Transfer	Total	
1	0-3 month	11	36	-	-	47	03	02	30	35	12
2	3-6 month	11	-	-	30	41	-	-	27	27	14
3	6-12 month	09	-	-	27	36	-	-	28	28	08
4	1-2 Year	38	-	-	28	66	-	-	34	34	32
5	Above 2 Years	15	-	-	34	49	-	-	48	48	01
6	Breeding Bulls	02	-	-	48	50	-	-	48	48	02
Total Male (B)		86	36	-	167	289	03	02	215	220	69
Grand Total (A+B)		243	79	-	304	626	10	20	352	382	244

## Mortality :

Overall, percent mortality in the herd was 3.96.

## Distribution of Germplasm:

The improved germplasm is distributed to the Department of Animal Husbandry, Gaushala, Grampanchayats, NGOs and other development agencies. The progressive breeders take cows, bulls and heifers at the time of auction and on book value.

## AHDP Institute :

AHDP institute has been started since 1<sup>st</sup> November 2011. The Sixth batch consists of 48 students in Second year and Seventh batch consists of 48 students in First year of the Two year diploma Program.

## Wet average and Herd average:

The highest wet average 8.36 lit was recorded in the month of December and lowest 7.12lit in the month of February. The overall wet average was 7.61 and herd average was 4.46 lit.

## Reproduction:

S. No.	Performance of Rathi Pure breed herd	
1.	Total average milk production per lactation per cow	2815.82 liter
2.	Total average lactation length per cow	331.88 days
3.	Average wet milk production on per cow per day	7.61 liter
4.	Average herd milk production on per cow per day	4.46 liter
5.	Average calving interval	391.09 days
6.	Average service period	123.08 days
7.	Average dry period	122.15 days
8.	Average age at first calving	43.75 months
9.	Average mortality rate	3.96 %
10.	Total milk production	1,19,211 liter
11.	Average Peak Yield	14.95 liter
12.	Income of Milk	37.16 lakhs

## Livestock Research Station Chandan (Jaisalmer)

### Genetic Improvement of Tharparkar Cattle Breed

Tharparkar cattle are backbone of milk belt of Jaisalmer, Barmer and adjoining districts and it plays an important role in rural economy of western arid area of Rajasthan. They have good potential for milk production with exceptionally high resistance to adverse climatic conditions of the desert area. Tharparkar Cattle farming is the main stay of rural economy of the area. Milk yield of this breed ranges from 1800 kg to 3500kg per lactation.

### Aims and objectives:

- To enhance production and productivity of existing Tharparkar herds by upgrading genetic merit of Tharparkar cattle for increasing number of high quality Tharparkar Cattle.
- To make available elite male germ plasm of high genetic merit of Tharparkar cattle by application of breeding technologies for semen collection and natural breeding for long term usage and dissemination to improve productivity of off farm animals.
- To undertaken ancillary studies with respect to reproduction, nutrition and management by generation of new technologies and application of available technologies and knowledge for refreshing demonstrable ideal practices.
- To utilize cow waste material (dung, urine, etc.) by making products for demonstration and training to cattle rearers.
- Studies on value addition of milk and milk products by making various products for assessing their shelf life as well as liking by people for searching and demonstrating additional income possibilities.

## Herd Strength (2018-2019):

S. No.	Animals Category	LRS, Chandan	LRS, Beechwal	Total
1	Cow	114	54	168
2	Pregnant heifer	20	12	32
3	Heifer (Others)	105	47	152
	<b>Total female animal</b>	<b>239</b>	<b>113</b>	<b>352</b>
5	Male calves	40	30	70
6	Breeding Bulls	04	02	06
7	Teaser Bull/ Bullock	01	02	03
	<b>Total Male Animal</b>	<b>45</b>	<b>34</b>	<b>79</b>
9	<b>Grand Total</b>	<b>284</b>	<b>147</b>	<b>431</b>

## Total Milk Production in Kg (2018-2019)

S. NO.	Station	2018-2019
1	LRS, CHANDAN	172947.00
2	LRS, BEECHWAL	114786.50
	<b>TOTAL MILK PRODUCTION</b>	<b>287733.00</b>

There were 16 cows having peak milk yield  $\leq 19.00$  Kg per day and 18 Cows produced more than 3300 kg milk in 305 days of lactation.

The average dry period was noted 113.0 days or 3.77 months of both the LRS. The average age at first calving was noted 1187.60 days or 39.59 months of both the LRS.

## Reduce calving interval:

The average calving intervals was 402.50 days or 13.42 months of both the LRS.

## Improved germplasm supplied during 2018-2019:

S. No.	Station	LRS, CHANDAN	LRS, BEECHWAL
1	Male	48	29
2	Female	30	18
	<b>Total</b>	<b>78</b>	<b>47</b>
	<b>Grand Total</b>	<b>125</b>	





## Overall performance of the herd:

S. No.	Economic Traits	Total /Average
1	Total milk production in kg. during 2018-2019	287733.00
2	Total average milk production per lactation per cow (kg.)	2196.18
3	Total average lactation length per lactation per cow (days)	279.50
4	average milk production in 305 days per cow per day (Kg.)	2303.82
5	Average wet milk production per cow per day (kg.)	7.74
6	Average herd milk production per cow per day (kg.)	5.17
7	Average dry period per cow (days)	113.00
8	Average calving interval (days)	402.50
9	Average age at first calving (month)	39.59
10	Average mortality rate (Percent)	3.54
11	Average cow in milk (percent)	60.00
12	Total Herd Strength	431
13	Total Animals distributed / sold	125
14	Total Expenditure (2018-2019) Rs in Lack	487.00



**Pregnant Heifer**



**Male Calves**

## Evaluation, Improvement and Conservation of Tharparkar Cattle Germplasm Livestock Research Station, Chandan (Jaisalmer)

### Objectives:

- Evaluation, Improvement and Conservation of Tharparkar cattle germplasm.
- Distribution/ Sale of Improved Tharparkar cattle germplasm to the farmers and development agencies.
- Demonstration of livestock production technologies to the livestock owners on their visit at the farm.



# Annual Report 2018-19

## Achievements:

### Herd Strength:

The herd strength for the year 2018-19 under report:

..	Category of Animal	Opening Balance on 01.4.18	Addition					Reduction					Closing Balance on 31.03.19
			Birth	Gen. transfer	Due Entry	Transfer	Total	Death	Sales	Gen. transfer	Transfer	TOTAL	
A.	Female												
1.	0-3Month	17	48	-	-	-	65	07	-	-	29	36	29
2.	3-6 Month	19	-			29	48	-	03	-	32	35	13
3.	6-12 Month	20	-			32	52	01	02	-	30	33	19
4.	1-2Year	33	-			30	63	-	-	-	34	34	29
5.	2-3 Year	17	-			34	51	-	03	-	32	35	16
6.	Above3 year	07	-			32	39	-	08	-	12	20	19
7.	Cows	119	-			12	131	03	14	-	-	17	114
Total Females		232	48			169	449	11	30		169	210	239
B.	Male2												
1.	0-3 Month	18	52	-		-	70	08	03	-	38	49	21
2.	3-6 Month	17	-	-		38	55	04	02	-	36	42	13
3.	6-12 Month	09	-	-		36	45	-	35	-	08	43	02
4.	1-2 Year	03	-	-		08	11	-	03	-	06	09	02
5.	2-3 Year	01	-	-		06	07	-	02	-	04	06	01
6.	Abov3 years	02	-	-		04	06	-	02	-	02	04	02
7.	Breeding Bulls	03	-	-		02	05	-	01	-	-	01	04
Total Males		53	52	-		94	199	12	48		94	154	45
Grand Total		285	100	-		263	648	23	78		263	364	284

### Elite Herd:

The cows whose lactation yield is above 2500 kg. in first 305 days of lactation are designated as "ELITE" cows. The highest 305 days lactation yield (TLY) of 4648.7 kg. was obtained from cow No. 580. In all 33 out of 110 cows produced 305 days lactation milk yield above 2500 kg. Cow no. 821 is a pride animal therefore special care is to be given to its progene.

### Improved Germplasm Supplied:

(from May 2010 to 31<sup>st</sup> March 2019)

S. No.	Name of Organization and number	No. of Organization	No. of Animals Distributed				
			Bulls	Bull Calves	Heifers	Cows	Total Animal
1	Gaushala	82	52	131	24	20	227
2	NGO	36	48	48	31	32	159
3	Panchayat	58	30	42	02	03	77
4	Individual	116	25	56	99	91	271
5	Other Agencies	33	24	30	36	18	108
Total		325	179	307	192	164	842

## Summary:

Evaluation improvement and conservation of Tharparkar Cattle Germplasm is the main objectives of the farm. This is being financed by State Government under non plan. Overall performance of Tharparkar cattle Breed at L.R.S. Chandan during this year was following:

1. Total average milk production per lactation per cow (kg.)	1810.84
2. Total average lactation length per lactation per cow (days)	277
3. Average milk production in 305 days per cow per day (days)	2114.11
4. Average wet milk production per cow per day (kg.)	6.50
5. Average herd milk production per cow per day (kg.)	4.14
6. Average dry period per cow (days)	115.00
7. Average calving interval (days)	406.00
8. Average age at first calving (days)	1316.70
9. Average mortality rate (Percent)	3.54
10. Average cow in milk per Month (Percent)	64.00
11. Minimum age at first calving (days)	946

## Conservation and Development of Marwari Goat (Revolving Fund)

### Livestock Research Station, Chandan (Jaisalmer)

The Marwari goat is a dual purpose breed for meat and milk production. This breed is also known for its capabilities of disease resistance and capabilities of thriving in very harsh nutritional conditions.

### Objectives:

- Conservation and development of Marwari Goats.
- Distribution & Sale of improved Marwari germplasm to the progressive livestock breeders.
- To transfer improved livestock techniques to the progressive animal breeder on their visit at the farm.
- Generate and increase the revolving funds of the station
- It is helpful for AHDP Programme.



### Achievements:

- **Increase the Income:** Mostly bucks were sold at the age of 12 month of age. The rate of breeding bucks and goats were decided by the university committee that were 8100/- Rs. per breeding bucks and 7100/- Rs. for female goat. Total 36 males and 06 female were sold during this year.
- **Age at First Kidding:** Most of the goat's part rated at the 16-18 Months of age.
- **Kidding Interval:** Kidding interval was recorded on an average seven months.





## Summary:

1.	Increased the Flock Strength from	156 to 187 (Goat 90, Female kids 52, Male kids 43 and Breeding bucks 2)
2.	Generated an income of	Rs. 2.59 lacs
3.	Improved Germ plasm supplied	36 male and 06 female (42)
4.	Total birth recorded during the year	81 Numbers
5.	Mortality rate	03.74 percent
6.	Average age of first Kidding	17 months
7.	Average age of kidding intervals	07 months
8.	Average age of maturity	12 months

## Fodder and Fodder Seed Production (Revolving Fund)

### Livestock Research Station, Chandan (Jaisalmer)

Fodder and fodder seed production was started to full fill the requirement of green and dry fodder for milk production cattle and for generating income as well as strengthening extension activities at this station.

### Objectives:

- To increase the green and dry fodder production for fulfill the requirements of the animals.
- To generate the income from sale green and dry fodder as well as fodder seed also.
- To mix the sufficient fodder for preparation of balance ration fed to different categories of animals.
- To increase the milk production of the herd through the balance feeding of animals.

### Achievement:

1. Green fodder production: total 625Qt. green fodder produced during this year
2. Dry fodder: total 50 Q dry fodder produced during this year
3. Fodder seed production: total 1Qt. fodder seed produced during this year
4. Total income: total one lac sixty eight thousand seven hundred rupees incomes were generated from green fodder. .

### Summary:

1. Green fodder production - 625 Qt.
2. Dry fodder production - 50.00 Qt.
3. Fodder seed production - 1.0 Qt.

## Livestock Research Station Vallabhnagar

### Gir Cattle Breeding Farm

The Gir Cattle Breeding Farm was established in 2010 under RKVY. It is located at LRS, Navania, Vallabhnagar, Udaipur of Rajasthan University of Veterinary Animal Science, Bikaner. At present this farm is well established with all needed infrastructure (cattle shed, bull shed, calving line, feed store and milking parlor etc), mini feed plant and electronic weighing bridge etc. The Gir cattle breeding farm is not only conserving the Gir breed but also improving the milk production performance of Gir cattle. Gir is the most preferred indigenous cattle breed in southern & eastern part of Rajasthan. There is increase demand of the good performing animals in the field to meet this demand elite germplasm is needed to be disseminate for improvement of this breed in this area.



# Annual Report 2018-19

## Objectives:

- Evaluation, Improvement and Conservation of Gir cattle germplasm.
- Dissemination of improved Gir cattle germplasm.
- Demonstration of modern livestock production and management practices to the livestock owners on their visit at the farm.

## Achievements:

### Herd strength

Sl. No.	Category of Animal	Opening Balance on 01-04-2018	Addition				Reduction				Closing Balance 31-03-2019
			Birth	Purchase	Transfer	Total	Death	Sales	Transfer	Total	
<b>A</b>	<b>Female</b>										
1.	0-3 Month	07	38	-	-	45	06	01	28	35	10
2.	3-6 Month	08	-	-	28	36	-	-	27	27	09
3.	6-12 Month	10	-	-	27	37	02	03	21	26	11
4.	1-2 Year	25	-	-	21	46	01	12	18	31	15
5.	2-3 Year	28	-	-	18	46	02	02	26	30	16
6.	Above 3 Year	33	-	-	26	59	-	02	19	21	38
7.	Cows	102	-	-	19	121	04	05	-	09	112
<b>Total Female</b>		<b>213</b>	<b>38</b>	<b>-</b>	<b>139</b>	<b>390</b>	<b>15</b>	<b>25</b>	<b>139</b>	<b>179</b>	<b>211</b>
<b>B</b>	<b>Male</b>										
1.	0-3 Month	12	31	-	-	43	05	-	34	39	04
2.	3-6 Month	07	-	-	34	41	-	-	32	32	09
3.	6-12 Month	11	-	-	32	43	01	03	27	31	12
4.	1-2 Year	20	-	-	27	47	04	11	07	22	25
5.	2-3 Year	20	-	-	07	27	01	10	02	13	14
6.	Above 3 Year	06	-	-	02	08	-	03	0	03	05
7.	Breeding Bulls	06	-	-	0	06	-	02	-	02	04
8.	Bullocks	-	-	-	-	-	-	-	-	-	-
<b>Total Male</b>		<b>82</b>	<b>31</b>	<b>-</b>	<b>102</b>	<b>215</b>	<b>11</b>	<b>29</b>	<b>102</b>	<b>142</b>	<b>73</b>
<b>Grand Total</b>		<b>295</b>	<b>69</b>	<b>-</b>	<b>241</b>	<b>605</b>	<b>26</b>	<b>54</b>	<b>241</b>	<b>321</b>	<b>284</b>

## Performance at a glance:

1. Herd Strength	284
2. Germplasm Distribution	52
3. Milk Production (litr)	108438.5
4. Income (Rs. In Lacs)	28.46
5. Peak yield (kg)	15
6. Avg. Lactation Yield (litr)	1842.18
7. Avg. Dry period (Days)	186
8. Avg. Calving Interval (Months)	17
9. Avg. Lactation Length (Days)	303
10. Avg. Age at first calving (Months)	65
11. Wet Average (kg)	6.08
12. Herd Average (kg)	3.2



## All India Coordinated Research Project on Goat Improvement (Sirohi Field Unit) Livestock Research Station, Vallabhnagar

The Sirohi is one of the best dual-purpose goat breed in India. It has made its place in the rural economy of Southern Rajasthan by replacing the non-descript goat. This breed has proved as an excellent goat breed with respect to disease resistance, adaptability in dry & hot climate, growth and production performance under poor quality range condition

### Objectives:

- To assess the production performance of goat breeds in farmers flocks under village management system and improve the germplasm through selection.
- To evaluate the socio-economic status of goat breeders and the economics of goat production in farmers flocks.
- To disseminate the pro-poor goat based technologies under field conditions and assessment of their impact on goat production.

On-going AICRP on goat improvement (Sirohi field unit) came in to financial existence on 1<sup>st</sup> January 2001, with the main objective to bring about the improvement in the farmers flock. As per technical programme base line information on production and reproduction traits, managerial practices, production trend and disease pattern were recorded and analyzed. The registration of farmer's flock and the identification of animals were carried out in four clusters.

The closing balance of the registered flock was 1965 animals including 1242 adult females. During report period, 970 kids were born, out of which 492 were males and population growth was 91.28%. Total 364 males were sold.

The overall least square means for milk yield over 30 days, 60days, 90 days, 150 days, lactation yield and lactation length were 20.63±1.42, 44.38±2.69, 64.42±3.67, 96.99±4.65, 98.01±4.58 lit. and 152.70±1.32 days, respectively. Period, Season of kidding, type of birth had significant effect on milk yield. The lactation order played a significant role in milk yield.

The overall least square means for age at first mating, weight at first mating, age at first kidding, weight at first kidding, service period, kidding interval and gestation period of test progenies were 472.55±10.86 days,





26.03±0.15 kg, 622.62±10.87 days, 29.13±0.15 kg, 382.66±3.78, 232.78±3.77 and 149.88±0.05 days, respectively. The kidding rate (litter size) was 1.14. During report period 85.01 per cent breeding efficiency were observed on basis of does available.

During report period 4701 and 4096 animals were de-wormed and given ecto-parasitic medication respectively. Further, 1555 and 600 animals were vaccinated for ET & PPR, respectively. The major diseases observed in the registered animals were enteritis and pneumonia. The overall mortality was 4.30%.

Total 45 breeding bucks were distributed to registered farmers during the report period for further genetic improvement in the field. 575 animals were sold during report period. Out of which 85.91% animals were sold for breeding purpose.

Due to project intervention mortality come down over years and farmers are aware for sale of animal on the basis of live body weight. Now farmers are selling true to breed animal for breeding purpose on premiere prices.

During the period 9 trainings were organized. The major problem identified was abortion. Linkages were created with BAIF, Sahayog Sansthan, NMPS, RACP, Hanuman Van Vikas Samiti and Gramin Vikas Trust (GVT)

### **Network Project on Buffalo Improvement (NPBI)**

#### **Livestock Research Station, Vallabh Nagar**

##### **Objectives:**

- To establish elite herd of 50 Surti for the production of genetically superior young bulls.
- To evaluate sires through institutional/ field progeny testing.
- To produce, test, propagate and conserve high genetic merit male germplasm

##### **Technical Programme:**

- Establishment and maintenance of an elite herd of Surti with herd strength of 120.
- Selection and testing of minimum 4-6 bulls in every 24 months cycle.
- Production of minimum 3000 frozen semen doses from each test bull.
- Maintain a minimum number of 2000 frozen semen doses until the particular SET gets evaluated.
- Evaluation and ranking of bulls on the basis of their progeny performance (first lactation) for selection of top 20-25% as proven bulls from each set.
- Application of proven bull's semen on elite buffaloes for the production of future sires and replacement heifers.
- Minimum weekly recording of milk yield of individual daughters/ buffaloes at institutional herd / monthly recording in field units over complete lactation(s) with wet average, herd average, percent in milk, lactation length, dry period, TLMY, SLMY (305 days or less, up to minimum of 240 days) and peak yield, milk yield per day of herd life (total milk produced from date of birth till completion of 4th or more lactation).
- Monthly testing of milk constituents (Fat%, SNF% and Protein %) and Somatic Cell Count, wherever feasible, at institutional herds.
- Recording of reproductive traits viz., AFC, Service period, Days open, Calving interval, Number of services per conception, Conception rate and Calving abnormalities.
- Health management including udder health, vaccination, de-worming, disease screening, mortality and periodic body weight records



# Annual Report 2018-19

## Herd Strength during the Period 1st April 2018 to 31st March, 2019 :

S. No.	Category	Addition			Disposal				CB
		OB	B / P	T	D	T	S	E	CB
	<b>Female</b>								
1.	Below 3 months	1	18	0	6	11	0	0	2
2.	3-12 months	15	0	11	1	16	0	0	9
3.	1-2 years	8	0	16	0	8	0	0	16
	Above 2 years	23	0	8	2	8	0	0	21
4.	Buffaloes in Milk	23	0	8	1	2	0	0	28
5.	Buffaloes Dry P /NP	11	0	2	0	0	0	0	13
	<b>Sub Total</b>	<b>81</b>	<b>18</b>	<b>45</b>	<b>10</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>89</b>
	<b>Male</b>								
1.	Below 3 months	1	14	0	3	11	0	0	1
2.	3-12 months	7	0	11	0	8	0	0	10
3.	1-2 years	4	0	8	1	4	0	0	7
	Above 2 years	14	0	4	2	2	1	0	13
4.	Breeding bulls	6	0	2	0	0	1	0	7
5.	Bullocks / Teasers / others	2	0	0	0	0	0	0	2
	<b>Sub Total</b>	<b>34</b>	<b>14</b>	<b>25</b>	<b>6</b>	<b>25</b>	<b>2</b>	<b>0</b>	<b>40</b>
	<b>Grand Total</b>	<b>115</b>	<b>32</b>	<b>70</b>	<b>16</b>	<b>70</b>	<b>2</b>	<b>0</b>	<b>129</b>

OB = Opening Balance as on 1<sup>st</sup> April D = Deaths S = Sale E = Experimental

B / P = Birth / Purchase T = Transfer CB = Closing Balance as on 31<sup>st</sup> March

## Target achieved during the year 2018-19:

Trait	Target	Achieved (year)
Av. Age at first calving (months)	40	42.41
Av. Service period (days)	90	91.6
Av. days open	130	133.85
Calf mortality (0-3 months)	≤ 5 %	26.47 %
Wet average (kg)	≥8.5 kg	5.38
Herd average (kg)	≥5.5 kg	3.42



## Salient Research Achievements:

- Four Set of bulls completely evaluated with 4586 doses of Proven Surti Bulls.
- Test mating from VII set completed.
- Test mating of VIII set underway.
- Training of bulls for IX set started.
- No case of any reproductive abnormality reported for last year except one still birth.
- Improvement in ALL reproductive parameters.
- Marked improvement in ALL production parameters.

## Livestock Research Station Bojunda Chittorgarh

### Demonstration and Dissemination of More Remunerative Sirohi Goat Farming System (NMPS- RKVY)

Livestock Research Station, Bojunda, Chittorgarh is a newly sanctioned station in the year 2014 with an area of about 481 Bigha. A NMPS Project has been started at LRS, Chittorgarh and 300 goats of Sirohi breed established purchased for conservation and improvement of the breed and improved bucks will be distributed to goat breeders. Fodder crop production is currently undertaken at the station for feeding of livestock and income generation of the station.

### Primary Mandate with which the center was established:

- To popularize goat farming enterprises for socio economic development of goat keepers.
- To transfer the scientific management practices through training and demonstration.
- To conserve elite flock of Sirohi goat for production of buck of genetic merit.

## Animal Performance:

### Herd Strength 2018-19:

Male							Female							
Year	0-3 M	3-6 M	6-12 M	Breeding	Teaser	Total	0-3 M	3-6 M	6-12 M	Above	Milking	Dry Goat	Total	Grand Total
				Buck	Buck					1 Yr	Goat			
2018-19	6	37	4	7	1	55	9	31	4	59	40	83	226	281

- To distribute high genetic merit bucks among the farmers flock.
- To evaluate the socio economic status of goat breeders and the economics of goat production under village conditions.
- Evaluation of performance under intensive, semi-intensive and extensive system of management.

### Technical Programme:

Following technical programme will be adopted.

Controlled breeding in order to maintain pedigree should be practiced.

- The unit will maintain 300 breedable females and 10 bucks.
- Selection of male will be made on the basis of an index combining 90 days milk yield of dam and 6 months body weight. Multiple born will be preferred over single born kids.
- The breedable does will be divided in to 10 groups, each having 30 does at random.
- Recording of milk yield at fortnightly (Morning and Evening) and body weight of the kids birth to 12 months age 0,3 M,6M,9M and 12 Months.
- All kids should be raised under standard package of feeding and management practices and some male kids will be put under feedlot(ad lib) after weaning (90Dats)
- Twenty percent poor performer male and female should be culled from the breeding flock.
- Superior sires after use in the project and also surplus superior sires will be distributed for improving the productivity of goats in the farmers flock.
- There should be continuous flow of germ plasm exchange from farmers to farm and vice versa.



## Kidding Details 2018-19:

Total 111 kidding took place in year 2018-19, out of them 106 were single and 5 were twin. Out of 116 born 58 were male and 58 were female

## Farmers for Demonstration at LRS, Bojunda 2018-19:

During the period 254 farmers visited the LRS.

## Growth performance of Sirohi Goat:

Overall, average birth weight was  $2.94 \pm 0.04$  (532) kg, at 3M weight  $10.20 \pm 0.01$  (436), 6M weight  $13.36 \pm 0.02$  (370), 9M weight  $16.17 \pm 0.02$  (320) and 12 M weight  $21.86 \pm 0.03$  kg was observed.

**Lactation performance of Sirohi goat:** Overall lactation performance 90 days milk was  $36.73 \pm 0.90$  lit (443), 150 days milk  $48.38 \pm 0.92$  lit (375), Lactation yield  $50.79 \pm 0.96$  lit (375) and Lactation length was 161.68 days (375) was observed.

## Reproduction performance of Sirohi goats:

The overall mean KI  $413.09 \pm 0.03$  days (353), DP  $261.08 \pm 0.04$  days (353), GP  $150.50$  days (353) and SP  $262.59 \pm 0.03$  days (353).

## Goat Milk Production 2018-19:

During the period 2503 lit of milk was produced with income of Rs. 47188. Maximum milk

579.5 was produced during the month of May 2018 and minimum 63.5 lit in the month of September 2018.

## Breeding Buck Distribution 2018-19:

Total 10 bucks were distributed, out of them 4 were distributed to NG, 3 to Government agencies and 3 to farmers.

## Breeding Goat Distribution 2018-19:

During the period 85 breeding goats were distributed out of them 18 were distributed to NGO, 16 to Government agencies and 51 were distributed to farmers.

## Breeding of Goat of outside the LRS by Sirohi Breeding Bucks Year 2018-19:

During the period breeding of 211 goats of 123 farmers was done by Sirohi breeding bucks.

## Health cover-2018-19:

During the period treatment was done in 1264 animals, de-worming was done in 711, ET vaccine was done in 357, Ecto-parasitic treatment was done in 446 animals.

## Mortality:

Overall mortality was 8.85% in 2018-19.

## Income Generation through Farming Activities (Revolving Fund)

### Farm Performance:

### Crop Production in 2018-19

S No	Name of Item	Total Production (Qtl.)	Issue to Goat Farm (Qtl.)	Sold in Market (Qtl.)
1	Green Fodder	1160.86	1160.86	-
2	Dry Fodder	492.05	134.15	357.90
3	Grain Production	640.24	207.06	433.18
4	Fruit/Root/Other Production	8.90	-	8.90

**Note:** The items of above crop production are Soyabean, Barley, Wheat, Groundnut, Cowpea, Till, Mung, Maize, Tulsi, Stylo, Rijka, Senjana, Gaur, Urad, Berseam and Methi

## Senjana Dry Leaves Production (Morringo) 2018-19:

During the period 132 kg Senjana leaves were produce out of them 43 kg in July 2018, 23 kg in August 2018 and 66 kg produced in March 2019.





## Feed Fodder Issue to Goat Section from Farm Section for Feeding Year Wise:

Year	Green Fodder(Qtl.)	Dry Fodder(Qtl.)	Grain(Qtl.)
2014-15	836.8	237	2.74
2015-16	1161.8	154	83.0
2016-17	2189.95	161	124.72
2017-18	1777.85	553.5	104.97
2018-19	<b>767</b>	<b>134.15</b>	<b>207.06</b>

### State Plan Project:-

#### Apex Centre for Animal Disease

#### Investigation, Monitoring and Surveillance

#### Rajasthan University of Veterinary and Animal Sciences, Bikaner

The Apex Centre was established to meet out the needs of the field veterinarians for prompt diagnosis of diseases of livestock and poultry in the state.

#### Objective-wise targets and achievements:

The specific objectives of the project are:

- To attend and investigate outbreaks of various diseases in animals and poultry in the state to determine etiology and to recommend suitable treatment and control measures to check future livestock losses.
- To collect epidemiological data from various departments regarding the range and magnitude of livestock disease problems in different districts of the state.
- To prepare epidemiological maps of each district of the state with respect to various prevalent diseases on the basis of information collected by Apex Centre, Animal Husbandry and other organizations / agencies.
- To conduct laboratory examinations of various clinical and morbid samples received from field veterinarians and various other agencies.
- In vivo* testing of animals for diseases like TB, JD, etc.
- To arrange in-service training programmes in advance diagnostic techniques for the field veterinarians and short term vocational training programmes to animal owners to acquaint them

with the modern livestock management techniques.

#### Centre for Ethno-Veterinary Practices and Alternative Medicines

#### Rajasthan University of Veterinary and Animal Sciences, Bikaner

#### Objectives:

- Generation of information regarding occurrence of medicinal properties in plants rich in secondary metabolites with reference to specific use in animal health and production.
- Identification of different plants and extraction of their components having therapeutic properties and validation of pharmacological and therapeutic properties through animal experimentation or clinical trials in veterinary hospitals and field or in laboratory along with isolation of active principal present in plant with reference to specific pharmacological action.
- The establishment and quantification of medical properties of Ethno-Veterinary Medicines in the laboratory and field trials for confirmation of laboratory results.
- Development of protocol and formulation for use of these Ethno-Veterinary Medicines as well as practices as therapeutic agents and scientific validation of ethno veterinary practices documented or which are existing as folk lore passed through generations in laboratory.
- Determination of the dose of Ethno-Medicine and /or practice with reference to particular pharmacological action required during use as ethno medicine for prophylaxis or treatment.



- Development of ready to use form of Ethno-Veterinary drugs in extract form or otherwise as prophylactic/ therapeutic/supplementary agent by clinician and or livestock owners.
- Preparation of new combinations in form of drug of ethno- medicine by combining herbs/ extracts having desired pharmacological actions in laboratory so as to improve efficacy of ethno medicine or practice.
- The centre is also entrusted to carry out research and develop *Panchgavya* formulations in collaboration with Dr. S.R. Rajasthan Ayurved University, Jodhpur.

## Work done:

- The collection of ITKs of ethno-veterinary practices and preparation of herbarium of medicinal plants will continue.
- The topical herbal formulation-1 and herbal formulation-2 developed at the CEVPAM will be continued to be tested clinically in dermatological disorders and now the same is been reformulated and advanced with non greasy/oil free base. Herbal formulation-3 for dermatological disorder has been developed which is under process of testing.
- CEVPAM plans to use more types and combinations of solvents for exhaustive, more concentrate and several types of extractions of *Withania somnifera*, *Ocimum sanctum* *Piper nigrum* and *Citrullus colocynthis* will be undertaken to obtain maximum bio active principle of the extracts.
- To continue with research work on clinical efficacy, screening of herbals in subclinical mastitis affected animals. New extracts and formulation of above medicinal herbs will be tested.

## Animal Bio-Medical Waste Disposal Technology Centre

### Rajasthan University of Veterinary and Animal Sciences, Bikaner

The Animal Bio Medical Waste Disposal Technology Centre (ABMWDTC), RAJUVAS, Bikaner was established to create awareness among health professionals and public for safe disposal of animal

bio-medical waste as this is the most neglected aspect of health care centres and to train different groups of health professionals for collection, segregation, safe disposal and treatment of bio-medical waste to safeguard the life of themselves, whole society and the environment.

## Objective:

- To develop the centre as knowledge centre in biomedical waste disposal technology
- To test and develop different methods of animal bio medical waste disposal to improve status of health and to prevent hazards
- To impart trainings on biomedical waste disposal target groups
- To augment and strengthen facilities for the state in respect with animal bio medical waste disposal.

## Achievements:

- Preparation of Poster and Prepared a demonstration model of Segregation, packaging, transportation treatment and disposal of biomedical waste.
- First hands on training was organized by the centre on 15/01/2019 to Livestock Assistants, Department of Animal Husbandry, Bikaner on "पशु जैव चिकित्सकीय अपशिष्ट का उचित प्रबंधन एवं निस्तारण". Total 52 personals were trained during training.
- Second hands on training was organized by the centre on 16/03/2019 to Nursing Staff, Railway Medical Hospital, Lalgah, Bikaner on "पशु जैव चिकित्सकीय अपशिष्ट का उचित प्रबंधन एवं निस्तारण". Total 40 personals were trained during this training.
- Research activities related to disposal of animal bio medical waste is to be undertaken.

## Centre for Conservation of Animal Biodiversity

### Rajasthan University of Veterinary and Animal Sciences, Bikaner

This centre is proposed with mandate to document, conserve and propagate Animal Biodiversity in the state of Rajasthan.

## Objectives of projects:

- Identification of biotic and abiotic stress threatening diversity and to mark the species of most concern.



- Characterization and conservation of Animal Genetic Resources of domestic and wild animals which includes reproduction and molecular techniques for gene characterization, genome analysis and evolutionary relationships.
- To improve genetic base of domestic animals, strengthening the availability of superior germplasm of domestic animals.
- To conduct various research activities in respect with conservation of animal biodiversity of the state
- To provide care and treatment to the livestock and wild animals concerned.
- Collaborate with other institutes for knowledge and technology transfer.
- Impart training and education to communities, NGO's, wild life workers and other officers concerned.
- Impart training and education to farmers and villagers for knowledge and technology transfer.
- Handling of the economic data and its extrapolation to forecast.

### Outcomes of the Project:

- Awareness regarding conservation of Biodiversity is spread through various on campus (Farmers and officers) and off campus training, increasing farmers interaction and their knowledge about role and benefits of animal biodiversity and rearing of indigenous cattle in improvement of their economy
- Conservation of indigenous cattle germplasm is initiated through collection of DNA samples of different indigenous cattle breeds and encourages progressive breeders for keeping indigenous cattle breeds.
- SMS advisory system is very beneficial for disseminate the knowledge among farmers and other concern person.

### Centre for Disaster Management Technology for Animals

#### Rajasthan University of Veterinary and Animal Sciences, Bikaner

The Centre for Disaster Management Technology for Animals was established in 2013.

### Activities:

**Trainings SDRF Personnel:** Organized trainings for State Disaster Response force (SDRF) Regarding Disaster Management in Animals. First batch of 27 SDRF personnel was organized from 29th May to 7th June 2018. Second batch of 27 SDRF personnel was organized from 20th June to 29th June 2018 and third batch of master training for 18 SDRF personnel was organized from 30th July 2018 to 8th August 2018.

### Animal Disaster Management Awareness Trainings:

The centre organized on-campus and off-campus trainings programme from time to time to educate farmers and livestock owners about animal disaster management awareness. Total 12 trainings organized by the centre from April 2018 to March 2019.

**Modules:** The center is developing various modules and packages of practice regarding various aspects of the management of the animals during a disaster and in this first module on "Veterinary Emergency Response Team (VERT)" has been submitted to the Director of Research, RAJUVAS for the approval.

### Centre for Organic Animal Products Technology

#### Rajasthan University of Veterinary and Animal Sciences, Bikaner

### Objectives:

- To develop the centre as knowledge centre in organic animal production.
- To develop modules, package of practices and literature on organic animal production.
- To develop modules of organic animal production for different animal products.
- To impart trainings to farmers, industrialist and entrepreneur and officers of line department in respect with significance, advantages and technologies of organic animal production.
- To promote and disseminate organic animal husbandry in the state.
- To develop standards and references indicators for various organic animal products.
- To initiate and coordinate research in identified areas for development of packages of practices as



well as technologies in the field of organic animal production.

- To test and refine the available cottage animal product processing technologies for transforming cottage animal product processing to be organic animal product processing in the state.

## Achievements:

- **Establishment of Organic poultry farm:** A unit of 100 poultry birds have been started to develop as organic poultry unit in the poultry section, CVAS, Bikaner. This unit will be developed as a model organic poultry unit for demonstration of farmers to enhance the organic animal products in the state.
- **Establishment of Organic Goat Farm:** A unit of 100 goat and 40 hector land have been started to develop as organic goat unit in the LRS, Beechwal. This unit will be developed as a model organic goat unit for demonstration of farmers to enhance the organic animal products in the state.
- **Establishment of Dairy parlor:** Dairy parlor have been made for the sale of organic milk product.
- **Vermicompost unit:** A vermicompost unit being maintained as organic manure production at LRS CVAS Bikaner for income generation as well as demonstration purpose for farmers and students at college.
- **Azolla Unit:** A unit of azolla production being maintained at LRS, Bikaner as a sustainable organic feed for animals and for demonstration of farmers as well as students.

## Engineering and Technology Centre for Animal Sciences

Rajasthan University of Veterinary and Animal Sciences, Bikaner

### Mandate of the Project:

Engineering and Technology centre is established in year 2012-13. The main aim of establishing engineering and technology centre is to utilize the importance of engineering and technology in the field of veterinary and animal sciences.

This Department also provides indirect support to all other departments mainly in the field of civil and mechanical work, which is take place in RAJUVAS.

This department also had done research in the field of veterinary and animal sciences.

### Achievements:

- **Developed Prototype of Nipple Drinking System for Poultry Farm.**
- **Maintainence of RAJUVAS Solar Power plant -** All data related to solar generation recorded through DELREMO (online platform). RAJUVAS saved approx. 12 Lacs in electricity bill till date.
- **Planning of Various Design of Shed** Engineering and technology centre is giving its support in planning various types of animal sheds used for different animals at different location in Rajasthan.
- **Perform various test Related to Civil Works in E&T Centre:** There are approximate more than 200 different tests are performed like Cube test, mortar test, brick test, tensile test, compression test in Quality Control Test.
- **Provide Summer Training to Engineering Students (Degree and Diploma):** 8 students have received training in this new field through this centre.

## Centre for Excellence for Use of Space-based Technology in Animal Science

Rajasthan University of Veterinary and Animal Sciences, Bikaner

During the period (April 2018 to March 2019) data on disease outbreaks, disease prevalence and raptors migrating to and fro Jorbeer Conservation Reserve, Bikaner were collected. The district-wise data were analyzed and mapping of prevalence of most common diseases viz. trypanosomiasis in cattle, buffalo and camel and equine Influenza was done.

### Objective wise target and achievement:

Mandate of the project is to develop and make use of space-based technology in improvement of animal science sector for improved management and production. In this direction prevalence and outbreaks of diseases in Rajasthan were analyzed and tried to associate them with environmental factors like temperature, relative humidity and THI so that explore





the optimum environmental conditions to get better performance and production from animals. GIS mapping of farms and gaushalas were also help in better management of land and to provide better atmosphere to animals to perform well.

## Centre for Studies on Wildlife Management and Health

Rajasthan University of Veterinary and Animal Sciences, Bikaner

This is a state government run project, which was sanctioned on 23.11.2012. The objective of the project is to work as knowledge centre for wildlife protection and propagation and to design strategies for protection of endangered species of wildlife. The centre is working for improving health and management of wild animals through disease control programs, surveys and research on gastrointestinal parasitic and microbial infection in captive animals.

### Objective wise Target and Achievement:

**Mandate:** To work as knowledge centre for wildlife protection and propagation and to design strategies for protection of endangered species of wildlife.

During the present duration of work 180 faecal samples from captive wild animals of different zoos and animal conservation parks (Bikaner and Jodhpur) and Tal Chhapar sanctuary, Churu were analyzed and reports were sent to concerned authorities for adopting control measures.

**Treatment of wild animals:** Treatment of sick animals in zoo was carried out as and when help was asked by DCF (wildlife), Bikaner.

### Studies on native wild birds at Jorbeer Conservation Reserve, Bikaner:

During the period from April 2018 to March 2019 population and type of various species of wild birds were recorded. During the period of report 17 species of wild birds were spotted in the reserve. The species were Egyptian vulture, Cattle egret, House crow, Black Ibis, Imperial eagle, Long-legged buzzard, Punjab raven, Indian roller, Laggar falcon, White-rumped vulture, Black-headed Ibis, Black-winged kite, Tawny eagle, Eurasian thick-knee, Common Kestrel, A Cuckoo and Booted eagle.

## Livestock Feed Resource Management and Technology Centre

Rajasthan University of Veterinary and Animal Sciences, Bikaner

### Objectives wise Targets and achievements:

1. Identification of potential non-conventional feed resources and exploration of the possibilities of their utilization at optimum level in animal diet by animal experimentation and validation.

- Potential non-conventional feed resource like maize groat was used for cattle feed formulation at LRS, Beechwal and explored the utilization of maize groat at the rate of 7 to 8% in cattle feed successfully.
- To promote nonconventional feed resource such as Azola production as a highly nutritive feed for improved animal production, its culture was provided to 20 livestock owners in the year 2018-19.

2. Formulation of least cost economic rations for various categories of animals in respect with production and physiological stage of life.

- LFRMTC provided technical support and least cost feed formulation to cattle feed plant LRS, Beechwal, RAJUVAS, Bikaner. Journey of cattle feed production was started from 200 kg feed production and achieved 6000 kg of feed in a single day. A total of 18000 kg feed was manufactured at this cattle feed plant till 31.03.2019. Feed manufactured is very well utilized and replaced readymade feed by own feed manufactured at LRS, Beechwal.

3. Development and refinement of feed technologies to improve efficiency of feed utilization particularly low quality crop residue.

- Ground work for value added compacted feed block was done and it will be promoted by LFTMC at LRS, Beechwal, LRS, Kodamdesar and LRS, Bikaner in 2019-20.

4. Improvement in status of feed resources availability both in term of quality and quantity by identification of high yielding varieties of fodder crop and pasture component.

- This centre has been prepared two experimental plots of Sewan for the purpose of mother stock



which will be utilized for the establishment of Sewan fodder nursery in 2019-20.

- This centre has developed 1000 high quality Sewan seedlings at LFRMTC's field.

## 5. To develop protocol and strategy for establishment of improved varieties in the specific areas suitable for identified feed resources.

- High quality Sewan seed collection was started at LFRMTC field for the establishment of Sewan fodder nursery.
- Research work on module and strategy for establishment of Sewan grass are in process.

## 6. Improvement in nutrient content of crops utilization in animals by applying various agronomic/plant breeding techniques

- Vermi-compost is the product of the composting process by the earthworm and vermiwash is a liquid by product of vermicompost, which is useful as a foliar spray for crops. Vermiwash contains plant nutrients and plant hormones to ensure healthy development of crops. Both are utilised at LFRMTC field for the organic fodder production. Vermiwash are used to protect the plant in place of pesticide.
- This centre has been prepared two demonstration plots of hybrid Napier and Dhaman at its own field as a fodder crops which is useful in animal feeding.

## 7. The improved varieties both in terms of quality and quality will be subjected to animals experimentation for validation.

### Vaccinology & Biological Product Research Centre

Rajasthan University of Veterinary and Animal Sciences, Bikaner

#### Objective wise targets and achievements:

- Evaluation of the effectiveness of commonly used vaccine candidates.
- Analyze new generation veterinary vaccines for their immunogenic potential.
- To devise strategies in the field of DIVA.
- To maintain a stock of bacterial type cultures for use in veterinary biologicals. Isolation of bacterial

type cultures for *E.coli* and *Pseudomonas spp.*

- Human resource for use and maintenance of veterinary biologicals. Training of 5 batches of internship students. Training imparted for culture media preparation. Bacterial culture, vaccines, types of vaccine, molecular imprinted polymers as ligands for diagnosis, antimicrobial peptides, application of rec-DNA technology for vaccine production, application of CRISPR/Cas9 technique for vaccine production, use of lateral flow assay for detection of infectious agents molecules.
- To develop models of estimation of vaccine impact in animal population of Rajasthan. Preparation of vaccine for *pseudomonas aeruginosa* using CRISPR/Cas9 technology in progress.
- To formulate policy, communication and ethical issues related to vaccine production and their application.

### RKVY Projects

Establishment of Microbiological and Biotechnological Information System Network (Bioinformatics and Chemoinformatics) Centre for Exploring Interconnections for Molecular Biological Applications in the Field of Veterinary and Animal Sciences, College of Veterinary and Animal Science, Bikaner

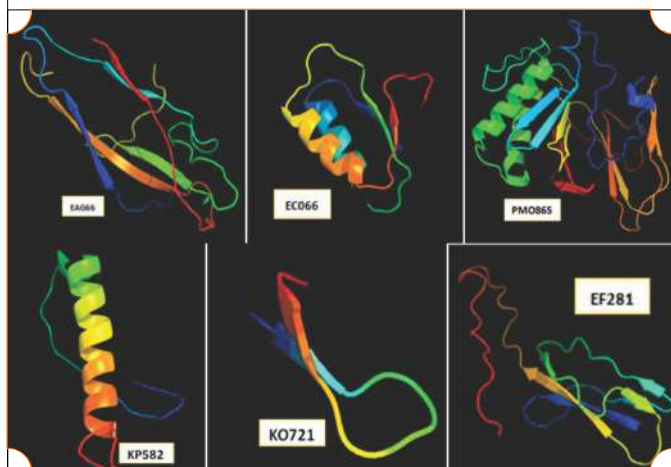
#### Mandates of the Project:

- To provide insights in analyzing and organizing data related to biological complexity
- To make an understanding of bioinformatics tools and softwares employed for data analysis
- To strengthen strategies for integrating bioinformatics tools for data mining
- Application of bioinformatics tools in genomic, proteomic and metabolic research
- Development of computational systems i.e. biocomputing, machine learning, database designing and management and biostatistics

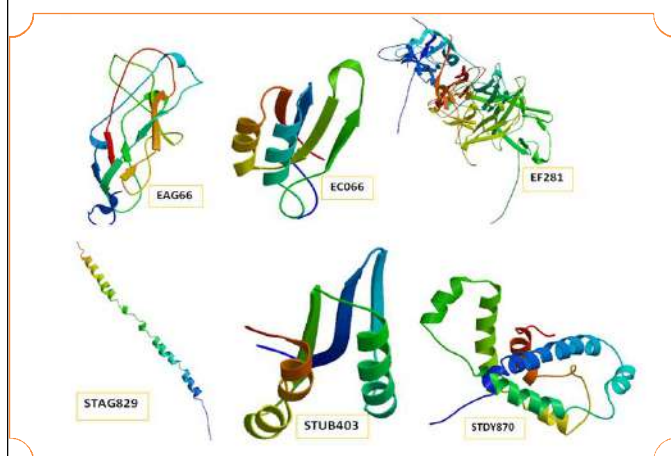
### Objectivewise Target and Achievements 2018-19

#### Target:

- Characterization of TLR1 in camel genome.



3-D Structure of Protein by UG Phyre2



3-D Structure of Protein by UG PS<sup>2</sup>

- Identification, characterization and use of unique hypothetical proteins for detection of mastitis causing bacterial pathogens.
- To study the combined effect of antibiotics along with kk20 (an Anti Microbial Peptide identified from  $\beta$  defensin of tharparkar breed of cattle) and Nisin antimicrobial peptide on planktonic and biofilm morphology of *Pseudomonas aeruginosa*.
- To study the role of MNK1 (an host factor that regulates host protein synthesis machinery) in BPXV replication and to study antiviral drug resistance of MNK1 inhibitor (CGP57380) against BPXV.
- To study epidemiology of PPR in Rajasthan and role of DUSP1 and KDMA6A PPRV replication.

## Achievements:

- Complete CDS sequencing of TLR 1 has been done and accepted in NCBI.

- Data-mining and *in silico* characterization of species specific unique Hypothetical Proteins from 15 mastitis causing pathogens has been done by using MBGD web portal and UNIPROT database. The proteins selected were such that they are paralogous for a genus and orthologous for a species, so that they could be categorized as unique to that particular species.
- MIC of Nisin in combination with Gentamicin was more effective than kk20 in planktonic growth, whereas kk20 was more effective in biofilm morphology. Combination of kk20 with ceftazidime was highly effective in planktonic as well as biofilm formgrowth of *Pseudomonas aeruginosa*. Whereas Polymyxin-B in combination with kk20 had an antagonistic effect.
- At a noncytotoxic concentration, a small molecule chemical inhibitor CGP57380 that blocks cellular MNK1 signaling was found to significantly inhibit BPXV replication in vitro (Vero cells). CGP57380 was found to specifically inhibit BPXV genome and protein synthesis. Other steps of BPXV life cycle viz; attachment, entry, budding and localization of the viral proteins in infected cells were unaffected in presence of CGP57380.
- Twenty outbreaks across various districts of Rajasthan were attended and samples from ten outbreaks were confirmed positive by partial N gene RT-PCR. Subsequently, to explore genetic information, N, M and F genes were amplified and sequenced. To investigate mutations responsible for evolution of PPRV strains in Rajasthan, the Multiple Sequence Allingment of all three genes was carried out by Clustal W. The transitions and transversion nucleotide mutations identified led to many unique non-synonymous amino acid mutations. The most prominent one identified was R105K at cleavage site of F protein in PPRV/Dausa.

**Establishment of Live Demonstration Models of Diversified Livestock Production Systems for Motivating Adaption to Enhancing Agricultural Income Live Animal Biodiversity Museum**





## College of Veterinary and Animal Science, Bikaner

### Objectives:

- To establish model of diversified livestock production system with efficient use of available resources.
- To promote livestock owner through live demonstration to adopt this model to increase farm income for better livelihood and efficient use of available natural resources

### Achievements

Live animal biodiversity museum for live demonstration of diversified animal production system including layers, broilers, ducks, guinea fowl, turkey, quail, emu, camel, buffaloes, sheep, goat and rabbits are being reared as component of diversification along with fish and Azola culture with the aim to promote livestock owners through live demonstration to adopt this model to increase farm income for better livelihood and efficient use of available natural resource. A well equipped Farmer's Training hall for 100 seat capacity developed under project is used for farmers trainings.

Fodder museum for live demonstration of different Fodder and grasses for livestock like Bajra, Guar, Maize, Jowar, Dhaman, Sewan, Phog Ashvghandha, Aloe vera, Sewan, Kangsia, Makra, Chaulai is being maintained in Sadul Sadan campus of university.

### Centre for Diagnosis, Surveillance & Response of Zoonotic diseases

## Post Graduate Institute of Veterinary Education and Research (PGIVER), Jaipur

### Objectives

1. Establishment of Laboratory for Diagnosis and Surveillance of Zoonotic Diseases.
2. Data Collection and Data Mining for hostrial Zoonotic Diseases.
3. Creation of awareness among Livestock owners about Zoonotic Diseases.
4. Prevention and Projection of Livestock and Livestock owners from Zoonotic Diseases.

### Achievements

1. The Construction of laboratory is at its final stage and likely to be completed soon.
2. Instruments like Multimode Plate Reader, Real Time PCR, CO2 Incubator, Non-Refrigerated, Centrifuge, Refrigerated, Micro-Centrifuge, Large Capacity Refrigerated, Centrifuge, Refrigerated Incubator shaker, Gel-Electrophoresis, Gel-Document System, Laboratory Water Purification System, Ultra-Low Deep Freezer -80C, Bio-Safety Cabinet A2 type, Bio-Safety Cabinet B2 type, -20C Deep Freezer, Magnetic Stirrer, pH meter, Vortex, Micro-wave Oven etc have been purchased.
3. Contractual Staff have been hired and working here continuously.
4. Data Collection and Data mining for historical Zoonotic diseases
  - Different districts of Rajasthan were covered for the study of prevalence of zoonotic diseases like Jaipur district, Dausa, Sawai-Madhopur, Karoli, Dholpur, Alwar, Sikar, Shri-Ganganagar, Kota, Nagaur, Sirohi, Bikaner, Udaipur, Chittorgarh, etc.
  - Survey has been done from the field workers, farmers, livestock holders and para-veterinarian staff from the different-different districts of the state.
  - Data has been collected from various departments like Medical/Human Health, Planning, Animal Husbandry etc.
  - In the project some important zoonotic diseases which are relevant to Rajasthan state are covered for the purpose of the Diagnosis, Surveillance and Response to Zoonotic diseases: Brucellosis, Salmonellosis, Tuberculosis, Para-tuberculosis, Rabies.
  - Different type of samples was collected for the purpose of diagnosis of the different zoonotic diseases like Blood/ serum, Faecal sample, Cloacal swab, Ceacal content etc.
  - More than 2000 farmers and livestock owners were benefited in different activities of the project.

### Establishment of Goat Breeding Farm for Demonstration and Dissemination of Remunerative Goat





## Farming System Angai, Sarmathura, Dholpur

### Objectives:

- Breed improvement in goat for the milk and meat purpose.
- Conservation of indigenous breed of goats.
- Increase animal protein availability to fulfil the nutritional requirements to reduce malnutrition of the human population of the state.
- Enabling the small producer to have better forward and backward linkages specially marketing to livestock and products, participate in the process of globalization, growth and modernization of the livestock sector.
- Self-employment.
- To utilize goat as a tool for economic and social development and gender equity.

### Physical Achievements:

- Office building work has almost completed. Feed-fodder has been purchased.
- Constitution of animal purchase committee has been done.
- The Geo-Tagging of site has been done.

## ICAR Projects

### MEGA SHEEP SEED PROJECT (SONADI SHEEP)

### CVAS NAVANIA, VALLABHNAGAR RAJUVAS

### Brief Technical Programme and objectives:

- Production of around 70 breeding rams of a breed every year
- To cover about 2500 breeding ewes using selected rams every year

- Enhancing quality and quantity of meat and wool
- Capacity building in SAU/ICAR institutes/NGOs
- Linking small holders with organized market
- Paving way towards public private partnership.

### Salient Achievements (2018-19):

- A total of 73 (47free+26sold) breeding rams were disseminated in field for breed improvement.
- Significant improvement recorded in body weights in 2018-19 at all age groups and these were highest among last five years.
- Increase in ADG1 (0-3) & ADG3 (6-12M) from last year. ADG1 in 2018-19 was the highest among last five years.
- Significant improvement recorded in first six monthly GFW.
- Improvement observed in reproduction parameters from last year
- Significant improvement reported in survivability and it was maximum in 2018-19 among last five years.
- In 2018-19, more than 3 times revenue was generated from 2017-18.
- Ear tagging of 1200 animals at farmers flock
- Two times one day training programme's were organized for ST farmers of TSP area.
- Khadi blankets, Kishan torch, umbrella, malvi bulls, sirohi bucks, concentrates feed and feed mangers were distributed to ST farmers of tribal area under TSP scheme.
- Azolla seed culture & wormi composts were distributed to SC farmers under SCSP scheme.

### Population Statistics:

Age group	Death		Reduction										Total		Closing Balance (as on 31-03-2019)	
			Internal transfer		External Transfer		Culled		Free distribution		Sale of Animals					
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
0-3M	08	10	77	78	-	-	-	-	-	-	-	-	85	88	12	19
3-6M	04	01	59	67	-	-	03	02	-	-	-	-	66	70	44	41
6-12M	01	06	33	21	-	-	21	19	-	-	-	-	55	46	22	30
Adult	02	22	-	-	-	-	04	15	47	-	26	-	79	37	14	291
Total	15	39	169	166	-	-	28	36	47	-	26	-	285	241	92	381
Group Total	54		335		-		64		47		26		526		473	



## All India Network Programme on Diagnostic Imaging and Management of Surgical Conditions in Animals (AINP on DIMSCA)

### Rajasthan University of Veterinary and Animal Sciences, Bikaner

#### Objectives:

- To study the diverse imaging techniques and surgeries of soft tissue, bones and joints, ophthalmic by using advance surgical equipments
- To develop and evaluate diverse ophthalmic surgery techniques in canines
- To develop and evaluate diverse dental surgeries in canines and large animals
- To develop and evaluate diverse orthopaedic and spinal surgery techniques including advanced fracture fixation and joint replacement techniques in canines

#### Technical Programme (2018-19):

- Clinical and research application of CT scan machine for the diagnosis of various affections in small animals'
- Evaluation of Phacoemulsification and intraocular lens transplantation for management of cataract in dogs.
- Clinical and research application of Electro-Retinography equipment ultrasonography and Tonometry
- Clinical and research application of ultrasound including colour Doppler in small and large animals
- Installation and utilization of the PACS for storage and management of the images acquired from various diagnostic imaging modalities.
- Clinical and research application of minimally invasive fracture immobilization techniques in small and large animals.
- Clinical and research application of bone grafts in fracture repair.
- Evaluation of external skeletal and internal fixators for fracture repair in large animals.
- Clinical and research application of CO2 LASER for minimally invasive surgery in small and large animals.

- Evaluation of staple suture technique for ovariohysterectomy in dogs.

#### Achievements (2018-19):

1. **Computed Tomography:** CT scan was performed in 43 clinical cases in dogs affected with various disorders involving head (08), spine (09), thorax (08), extremities (04), pelvis (03) and thoraco abdominal (11) regions of body. After clinical examination of 20 dogs which encountered thoracic disorder Computed Tomographic (CT) examination was performed to confirm the location of the lesion, presence of a suspected lesion or metastatic lesion. It was concluded that Computed Tomography proved to be an invaluable technique in characterizing thoracic pathological findings compared to conventional radiography.
- Thoracic Computed Tomography facilitated the more precise characterization and localization of subtle changes for the screening of pulmonary and thoracic malignancies for tumour staging.
- The haemato-biochemical alterations observed in the cases were better predictors of the pathological conditions in most of the presented thoracic affections.
2. **Computed Radiography and Ultra Sonography** was performed on 56 canine patents for examination of abdominal disorders according to organs involved: Liver and Gall bladder (11), Spleen (01), Stomach and intestine (03), Kidney, Urinary bladder and Urethra (18), Uterus (06), Prostate (02), Abdominal Cavity (06) and multi organs (09) in total there were 56 cases and it was concluded that
- Ultrasonography is a reliable, non-invasive imaging modality to detect diverse pathological conditions of canine abdomen.
- Computed tomography (CT) provided additional and detailed information of the abdominal organs and the pathological lesions to diagnose the abdominal disorders.
- Ultrasonography and computed tomography proved complimentary imaging technique to each other in diagnosing the affections of canine abdomen.



राजस्थान विन्य संस्नलक्षकसकस

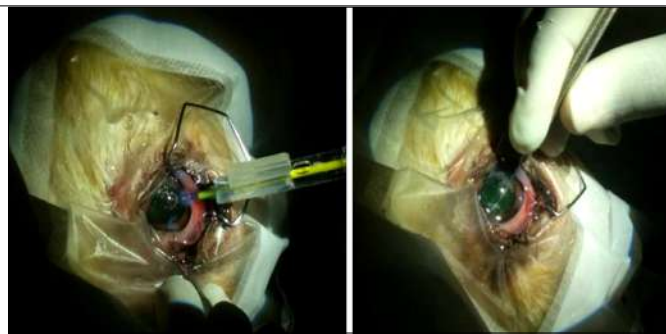
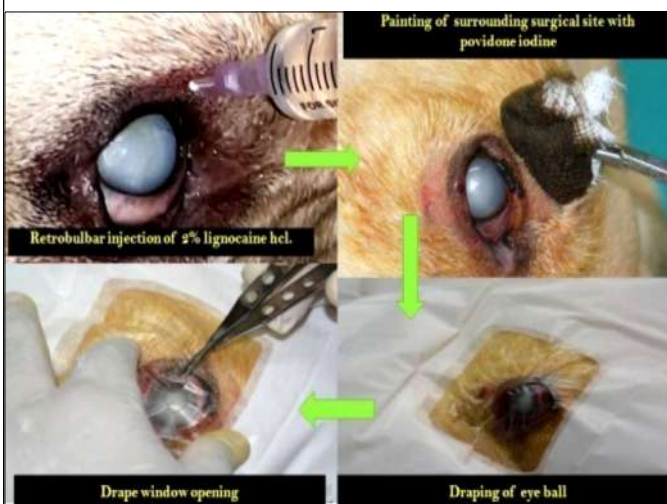


*CT image of abdomen demonstrated gross enlargement of prostate*

*3D reconstructive CT gross enlargement of prostate gland*

- The hemato-biochemical alterations in these cases were well corroborated with the imaging diagnosis of the pathology involved in canine abdomen.

- Ophthalmic affection:** Out of 71 Ophthalmic affections of dogs cataract surgery was performed in 13 cases using Phacoemulsification and extra capsular lens extraction technique and Electroretinography (ERG) was done in 18 canine cases of cataract, corneal ulcers, and opacities. It was concluded that
  - Phacoemulsification is a good technique for cataract extraction.
  - Most ophthalmic examinations in domestic animals can be performed in the minimally-restrained, awake and non-sedated animal.
  - The older the cataract is, the harder the lens material becomes.
  - Electroretinography to evaluate retinal function and ultrasonography to evaluate the posterior segment are important pre-surgical screening tools



- Phacoemulsification provides an early functional vision, causes minimum reactions in the eye.

#### 4. Minimum invasive soft tissue surgery by diode LASER and CO<sub>2</sub> LASER:

In canines minimum invasive soft tissue surgery by diode LASER and CO<sub>2</sub> LASER was done for various surgical affections in 15 and 11 cases respectively. Clinical Evaluation of Surgical approaches and Staple Suture Techniques for Ovariohysterectomy revealed that

- The total time taken from right flank is significantly less compared to ventral midline for performing ovariohysterectomy.
- Closure of skin incision is significantly faster with skin staples as compared to skin suture in both the surgical approaches
- The clinical appearance of the skin incision in both the approaches using staple and silk sutures showed no significant difference.
- According to the owners' perceptions, right flank approach provides an alternate to ventral midline for ovariohysterectomy in dogs.



*Completed suture line with skin staple and silk suture*

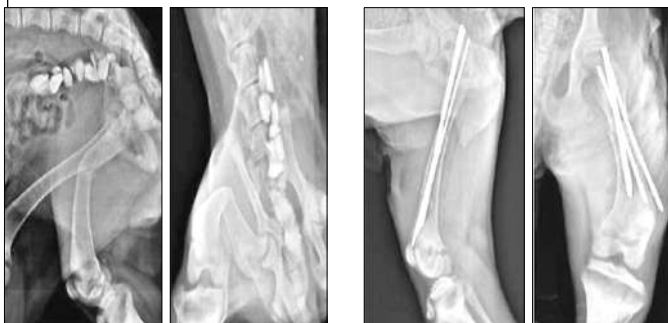
- Orthopedic affection:** Out of 603 Orthopedic affections in various species 568 were managed through various techniques of immobilization. With long bone fractures in 85 small animals treated by internal fixation technique like Intramedullary Pinning, Bone Plating and





Interlocking Nailing while, in 320 large animals by indigenously fabricated splints and walker splints. It was concluded that

- In very young animals closed method of Intramedullary pinning provided better healing in long bone fractures as compared to open method.
- Limb function outcome was recorded better in long bone fractures treated with closed method of IMP.
- The post-operative complication of pin migration was noted in both stack and simple intramedullary pinning methods.
- Serum Ca and P values did not change significantly in the period after immobilization by closed and open method of intramedullary pinning.



A. Pre-operative radiograph

B. Immediate post-operative

**6. Spinal Injury:** Cases spinal injuries in 12 canines were managed by rehabilitation by cart and 42 downer large animals by slings and "Downer Animal Bay".



Intra-operative radiograph under C-arm

Intramedullary pinning by closed and open method

**Characterization of Sojat Goat Project (CSGP)**  
**CVAS Navania vallabh nagar Udaipur**  
**Rajasthan**

**Objectives wise Targets and Achievement:**

- Total five tehsils of three districts were surveyed. Overall, 59 farmers of 20 villages were covered and 879 Sojat Goats were recorded.



- Equipments such as weighing balances, measuring tapes and laptop purchased.
- Training provided to the hired enumerators.
- Four enumerators and one Supervisor (LSA) employed through the University Service Provider.
- Other project work is in progress
- Vehicle hired.
- Survey work including bodyweight, milk recording

**All India Coordinated Research Project on Goat Improvement (Marwari Field Unit)**

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

**Objectives:**

- To enhance productivity of goat genetic resources of the country in their habitat.
- To develop germplasm resource centres for goat breeds.
- To validate and implement breeding, feeding and health control technologies in the field for improved goat production and health.





- Capacity building of stakeholders and goat keepers for sustainable and profitable goat husbandry.
- To determine the role of goat husbandry in livelihood and food security of goat keepers.

## Technical Program:

- The performance recording on growth, milk yield, reproduction, health etc. will be done separately for each group and reporting will be made accordingly.
- Each unit will maintain at least 4 centers having at least 1000 breedable does under the coverage.
- Selection of males and females will be made on the basis of 6 months body weight in small breeds (Black Bengal) and 9 months body weight in medium and large breeds.
- Multiple birth born kids will be preferred over single born kids in the selection of future bucks.
- The socio-economic studies will be undertaken and viability of goat rearing will be worked out.
- Strategic supplementary feeding schedule will be followed to improve the nutritional level of the goats.
- Health coverage will be provided to all the goats in the project area in collaboration with State Animal Husbandry Department.
- Marketing aspects of live goats and goat products viz. meat, milk, skin, hair and manure will be studied.
- Efforts will be made to form goat breeder's societies, cooperative societies and to register the goat flocks in the breeding tract of the respective breeds.

## Salient Achievement:

- 2148 adult does were registered from 69 goat farmers and covered 5 clusters of Marwari goats in breeding tract of this breed.
- Animal identification, pedigree and performance recording of 1807 goats.
- 20 young elite buck of Marwari breed have been disseminated to goat keepers during the financial year in addition to rotation of bucks with in cluster.
- The body weight at birth (2.67 kg) was improved by 18.74% over the baseline performance (2.257 kg.).
- The mortality was reduced up to 1.96% in the registered flocks. The age at first kidding first

kidding interval and kidding rate showed improved pattern.

- Capacity building of 264 farmers in goat rearing has been carried out.
- Around 26,995 goats were covered under health coverage which included both prophylactics (66.76%) and curative (33.24%) measures during this financial year (2018-19).
- Fifty three shoes, 12 water bottles, 12 umbrellas, 97 mineral mixture block and 60 measuring tapes were provided as a centric incentives to the registered goat keepers'.

## Pet (Pups) Production / Pet Spa /Pet Boarding Experiential Learning Unit

CVAS Navania Vallabhnagar (Udaipur)

### Objective wise targets and Achievements:-

- As compared to other parts of the country, Pet Production has not developed in Rajasthan due to lack of Pet Farm.
- The Pet production activity had been started in the college under which a parent stock of German shepherd, Rottweiler, Pug, Labrador and Beagle are reared. In the year 2017-18, total 04 pups of the German shepherd were born and 05 pups of the Beagle were born. The kennel house is under construction.
- When we compare Pet enterprise with our traditional business, which exist in Rajasthan. It will give more income.
- An income of 45,000/- rupees was earn by the sale of pups in local market.
- Student will learn/expose to practical aspect of Pet (Pups) Production/Pet Spa/Pet Boarding.



*Breeding Behavior of dogs*



- Total 50 students were opt for the Pet (pups) production/ Pet spa /Pet boarding Experiential Learning programme in the 4th year. Among 50 students, 29 were trained and 21 students are under learning hands on training of different activities of pups production.

## Preparation and Supply of ORS for Animals

### Mandates of the Project:

Preparation & supply of ORS for animals to correct the dehydration, loss of energy and electrolyte imbalance in animals affected with various diseases.

### Outcome of the project:

- Total 1130 Packets (128gm of each Packet) of ORS for animals were prepared.
- Income of Rs 3211/- during FY 2018-19.
- Availability of ORS for animals to correct the dehydration, loss of energy and electrolyte imbalance in animals affected with various diseases.
- Rs. 10, 000/- (20 % of the sanctioned amount for second financial year) returned to the Comptroller office during 2018-19.

### Salient Activities and Achievements:

- Income of Rs. 3211/- during FY 2018-19.
- Correction of dehydration, loss of energy and electrolyte imbalance in animals by use of ORS.

## Pilot Project on Alternate Energy Generation through Biogas Based Electricity Production

### CVAS Navania Udaipur RAJUVAS

The present project entitled "Pilot Project on Alternate Energy Generation through Biogas Based Electricity Production at CVAS, Navania, Udaipur Campus" has got sanctioned under revolving funds scheme in 2016-17 for establishment of biogas based electricity production system for effective management of animal bio-waste in the campus and to develop a model for animal waste management with conversion of it in to bio-energy and bio-fertilizer. It has following objectives.

### Objectives:

- Establishment of bio-energy station cum bio-fertilizer factory at C.V.A.S. Navania
- Establish a model of effective conversion of animal bio-waste in electricity and bio-fertilizer.

- Reduce the green house effect of bio-methane by converting it in to  $\text{CO}_2$  and  $\text{H}_2$
- Meet hands in **clean and green India movement** through developing an effective animal bio-waste management system model for village level utilization.
- Research on enhancement of Methane gas production in bio-digester plant for effective utilization of animal bio-waste.
- To meet the hand with clean India campaign by effective system of bio-waste disposal in college campus.

### Technical achievements:

**Establishment of Vermi compost unit:** Vermi-compost production unit has been established and the unit is working condition and we have produced and sold **50 tons** of Vermi compost in current financial year.

**Biogas and electricity production:** Establishment of the project has been completed and it is in working condition biogas production is at its full capacity. Electricity production is there and at present we are producing, 30 kva electricity with two hrs continuous power backup.

**Agricultural land developed:** By product of the biogas digester has been utilized to convert the waste land in to cultivable land. In current financial year 5 acre land has been converted in to agricultural land.

**Green fodder production:** Fodder production during last year 25 tons and Azola production was 2 tons.

**Farmers training:** Forty-three exposure training of farmers (total **1232 farmers**) on Vermi- compost production, Azola production and an orientation on proper animal waste management has been given during the financial year 2018-19.

**Research work:** As a mandate of the project ecological and microbiological studies of biogas plant and Vermi-compost has been started and at initial phase we are focusing on characterization of microorganisms of vermi-compost in this experiment we have cultured and isolated 3 bacterial isolates of various genera viz. Bacillus, Coliform and non Coliform bacteria of Enterobacteriaceae family.



### Preservation and Articulation of Bones of Different Species of Animals to Enhance the Teaching Quality of Veterinary Education

College of Veterinary and Animal Science, Navania, Udaipur RAJUVAS, Bikaner

#### Achievements

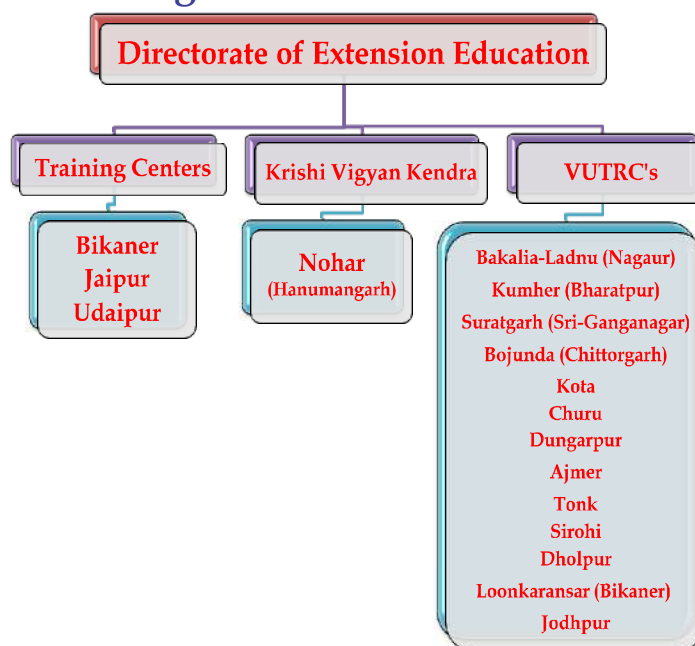
Supplied the produce to the following clients:

- Animal Husbandry Polytechnic, Hassan (Karnataka).
- LRS, Dug.
- LRS, Bojunda.
- CVAS, Navania.
- Animal Husbandry, Polytechnic, Chamarajnagar (Karnataka).
- Various AHDP institutions in the State of Rajasthan
- PGIVER, Jaipur (Payment is pending)
- Mewar University F/o Vety. Sciences, Chittourgarh
- Students are instigated for involvement while creating the interest and generosity in learning the anatomical structures.
- Enrichment of Anatomy Department, College of Veterinary and Animal Science, Navania is being done at the cost of this project.

## 6. Extension Education

The Directorate of Extension Education is the nodal agency of Rajasthan University of Veterinary and Animal Sciences, Bikaner for promoting livestock development in the State through quick transfer of technology by providing scientific training, advisory and forecasting of disease outbreaks and their prevention for the benefit of farmers. Extension Education, one of the pillar of the university, is working for the technology transfer to the farming communities through its various programmes. Under an umbrella of the Directorate of Extension, the work of the field extension is mainly carried out through university's colleges, Krishi Vigyan Kendra (KVK), Veterinary University Training and Research Centre (VUTRCs) and Centres sanctioned under State plan for the livestock, dairy, poultry and fish farmers. Imparting skill based training for strengthening the entrepreneurial activities in the rural areas; the directorate is actively involved in training and capacity building initiatives for the farmers and the unemployed youth across the state. The Directorate being a crucial organ of the University also provides guidelines as well as monitor and evaluate the extension programmes. Taking the problem from the field to the research units and bringing the solutions for the farmer's problem is crucial and the extension is striving to build this linkage in the most effective manner through various outreach programmes. It also involves organization of Animal Treatment & Infertility treatment camps, Farmers training, Exhibition, Farmers- Scientist Interaction, Front-line demonstration etc. For strengthening the extension activities, various programmes are being implemented through projects sponsored from the agencies like ICAR, RKVY, ATMA and other government and non-government organisations. Use of traditional and modern technologies transfer for effective outreach is the prime objective of the University. The University is routinely carrying out technology identification,

### Organizational Structure



assessment and technology transfer to the farming communities in active collaboration with the various development departments of the Centre and State. With a view to extend the outreach programmes of university, efforts are being made to strengthen the extension wing of the university as well as the college to make reasonable impact in the technology dissemination. Extension is striving to bring the changes through the modern technology adoption in animal husbandry, dairy technology and fisheries for sustainable development and improved productivity for the farming communities. The directorate also extends its support to the State Animal Husbandry Department by publishing literature on different disciplines of veterinary and allied sciences. Thus, three principal functional areas of the Directorate of Extension Education, RAJUVAS, at present are training, advisory and communication.

RAJUVAS has been a leader in the rapid development of its infrastructure of extension education since 2011. The Directorate of Extension Education is headed by the Director of Extension Education, who is assisted by Additional Director,



Deputy Director, and Assistant Director. At present positions of Additional Director, Deputy Director, and Assistant Director are vacant. Other faculty members of different VUTRC are working under the technical control of Directorate.

## Broad Objectives

- To formulate and impart in-service training to different categories of officers and functionaries from line departments of Government of Rajasthan and Non- Government Organizations.
- To conduct short and long duration vocational trainings for farmers, farm women, youth and school dropouts of the State.
- To assess and refine the latest Animal Husbandry technologies through front-line demonstrations for their wider adoption.
- To provide farm information services through various extension activities including literature for quick dissemination of technology.

## Over View of Directorate of Extension Education, Bikaner

- Thirteen Veterinary University Training and Research Centres (VUTRCs) have been functional at Nagaur, Suratgarh, Bharatpur, Chittorgarh, Tonk, Dungarpur, Sirohi, Kota, Ajmer, Churu, Dholpur, Loonkaransar and Jodhpur.
- A Krishi Vigyan Kendra (KVK) at Nohar (Hanumangarh) has been established and functional.
- Radio Programme "Dhine Re Batyaa" for livestock farmers from 17 All India Radio Stations of Rajasthan is broadcasted on Thursday of every week at 5:30 to 6:00 PM.
- Trainings for the livestock farmers are conducted regularly by DEE, VUTRCs and KVK.
- Animal treatment camps tacking on infertility are organizing regularly.
- DEE is regularly brining out monthly publication "Pashu Palan Naye Aayam".
- Toll free helpline is working for the benefit of livestock farmers, veterinary doctors and students.
- Arranging exhibitions in State and National level fair organized for the farmer's community.

## Krishi Vigyan Kendra, Nohar (Hanumangarh-II):

The first "Krishi Vigyan Kendra" was sanctioned to the university by ICAR, New Delhi at Chak-27-NTR, Nohar (Hunumangarh) on 100% financing basis. From the available land of LRS, Nohar 81 bighas land was allotted for the KVK by the University. The KVK started its functioning on 9<sup>th</sup> April, 2012. The KVK is actively engaged in on farm trials, front line demonstrations, on campus and off campus farmers and farm women trainings and other extension activities such as field day, kisan mela, kisan gosthi, exhibition, method and result demonstrations, scientific visit to farmers field,



exposure visit of farmers, animal health camps and farm science club and self help groups conveners meet etc. The KVK is very helpful for transfer of new techniques and technology to the farmers and livestock owners. The University is marching ahead to transform it to a model KVK where provisions will be made to provide latest knowhow and new technologies to the farmers besides updating their skill and competence.

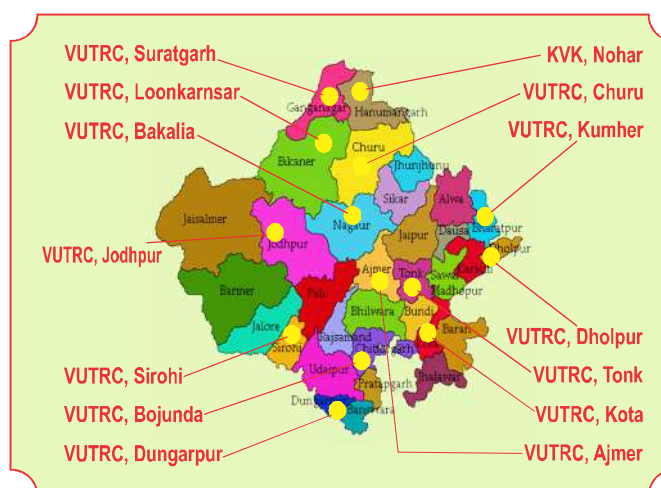
## Extension Activities Organized by KVK (2018-19):

Centre	Off Campus Training	On Campus Training	Demonstration/ Transfer of Technology/ (FLD/CFLD)	Vichar/ Kishan Gosthi	Field day	Success Stories	Total Training
KVK, Nohar	17	9	392	378	20	3	451
<b>Total</b>	<b>17</b>	<b>9</b>	<b>392</b>	<b>378</b>	<b>20</b>	<b>3</b>	<b>451</b>

## Veterinary University Training and Research Centers (VUTRCs)

Extension Education is one of the pillar of the university, is working for the technology transfer to the farming communities through its various programmes. Under an umbrella of the Principal Investigator, Veterinary University Training and Research Centres, the extension work in the field is mainly carried out through Veterinary University Training and Research Centre (VUTRCs) in 13 district of Rajasthan. VUTRC at district level is venturing to penetrate up to each livestock owner of the state for enhancing animal productivity and profitability from livestock sector. This project has been appreciated as well as accepted by the Government of Rajasthan and the activity has been included in the plan of State. Establishment of centre at district level enables the dissemination of latest fruitful technologies at faster rate to the end users. Livestock owners are envisaged to have a direct communication with scientists and extension workers not only to solve their immediate problems but also to receive trainings and technologies. The farmers and field staff will receive services of subject matter specialists for adoption of technologies in addition to facilities of diagnosis and treatment of diseases and testing of feed quality as well as animal produce. All these centers are expected to improve the status of animal husbandry in all dimensions for improvement in status of animal production, productivity and health of animal for better livelihood of farmers.

VUTRCs imparting skill based training for strengthening the entrepreneurial activities in the rural areas. The VUTRCs are actively involved in training and capacity building initiatives for the farmers and the unemployed youth across the state. The Principal Investigator being a crucial organ of the University



provides guidelines as well as monitor and evaluate the extension programmes. Taking the problem from the field to the research units and bringing the solutions for the farmers' problem is crucial and the VUTRCs are striving to build this linkage in the most effective manner through various activities. It also involves in organization of animal treatment and infertility treatment camps, farmers' training, exhibitions, farmers- scientist interaction, demonstrations etc. For strengthening the extension activities, various programmes are being implemented through ATMA and other government and non-government organisations. Extension is striving to bring the changes through the modern technology adoption in animal husbandry, dairy technology and fisheries for sustainable development and improved productivity for the farming communities. VUTRCs are also providing consultancy services to the livestock farmers according to their problems in the field of animal husbandry and providing disease diagnostic services to them by testing of blood, faecal, milk and urine samples at VUTRCs laboratory.

Thus, four principal functional areas of the VUTRCs are training, advisory, transfer of technology and diagnostic facilities. The Veterinary University

Training and Research Centres are headed by the Principal Investigator, VUTRC, RAJUVAS, Bikaner. Other faculty members of different VUTRC are working under the technical support of Principal Investigator, Veterinary University Training and Research Centre.

Veterinary University Training and Research Centre at Bakalia (Nagaur), Suratgarh (Sriganganagar), Kumher (Bharatpur), Bojunda (Chittorgarh), Churu, Tonk, Dungarpur, Sirohi, Kota, Ajmer, Dholpur, Loonkaranser (Bikaner) and Jodhpur have become operational.

## Mandate

The mandate of Veterinary University Training and Research Centre (VUTRC) is to impart service of trainings to farmers on new technologies of animal husbandry and veterinary science to sustain and improve production of animal for better livelihood of farmers.

## Objectives

- ❖ To impart trainings, enhance awareness and to conduct demonstrations regarding breeding, feeding, management and health care of various species of animals to enhance animal productivity.
- ❖ To disseminate technology at grass root level for improvement in animal productivity as well as socio-economic status of rural masses.
- ❖ Identification of local problems and to impart knowledge as well as prepare technology modules to mitigate the problems.
- ❖ To provide livestock and farm advisory services through various extension activity including literature for quick dissemination of technology.

- ❖ To assess and refine the latest technologies developed under control condition in field for their wider adaptation and collecting feedback information from field and generate production data for livestock farming.
- ❖ To have provision of services for animal disease diagnosis and treatments testing of feed & fodder as well as animal products.

## *Dhine Re Batya* "Radio Programme:

University in its outreach activities exclusively for the farmers started a sponsored programme entitled "*Dhine Re Batya*" on All India Radio from 10<sup>th</sup> January, 2013 from Bikaner Aakashwani Kendra. The programme was broad cast on every Thursday from 7.15 PM to 7.45 PM. Later, with the success of programme and upon receiving vast appreciation from farmers, on 14<sup>th</sup> May 2014 the broadcast of programme was extended to entire State i.e. now the programme is broadcasted from all the 17 Aakashwani Kendras of Rajasthan for half an hour from 5.30 PM to 6.00 PM on every Thursday. The sponsored programme is entirely on animal husbandry sector for livestock owners and farmers. The subject matter specialists of different disciplines of veterinary and animal science deliver talks and discuss about various problems of livestock, adaptable technologies, scientific knowledge and other updates that may help the livestock owners for better livelihood from animal husbandry sector and scientific practices in terms of feeding, breeding, management and health control, may be adopted by livestock owners for improving productivity and health status of animals. There are total fourty eight Programme entitled "*Dhine Re Batya*" on All India Radio completed till 31<sup>st</sup> March 2019.

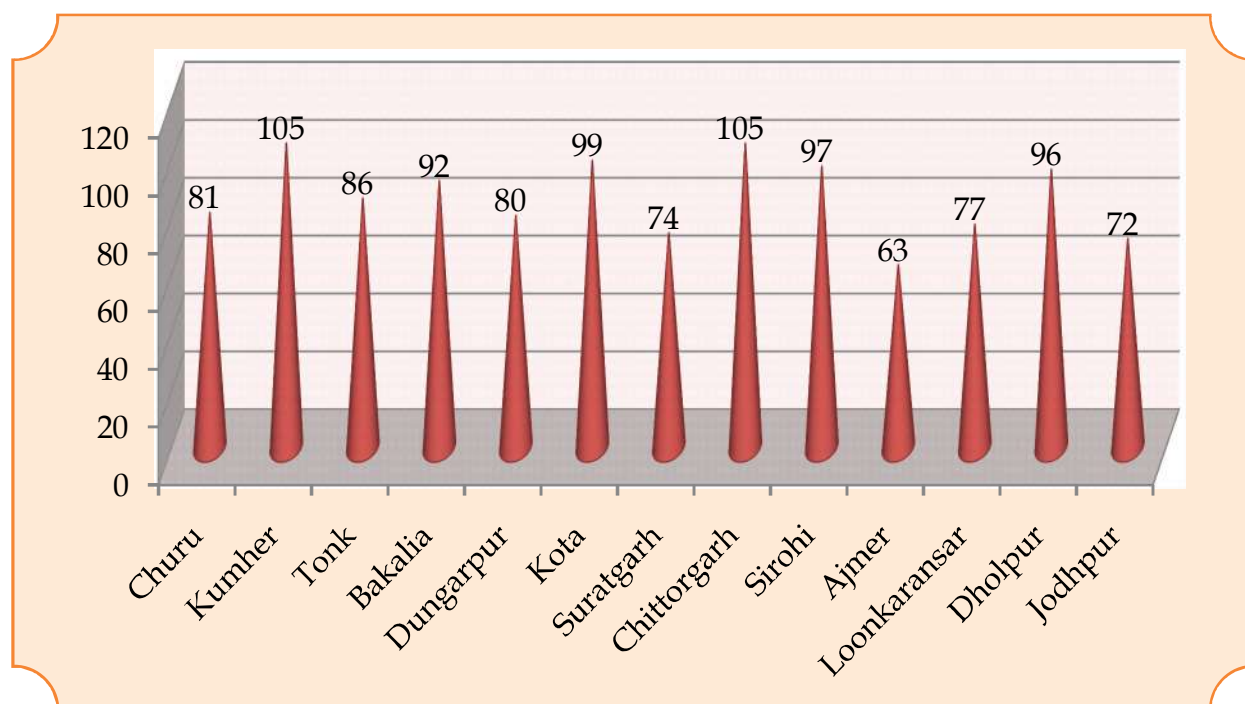


## Organization of Training Programmes:

The trainings are regularly imparted as an extension service to the livestock owners and farmers on all aspects of animal husbandry, so as to improve animal husbandry practices in the state for improved productivity of animals and better livelihood of the farmers.

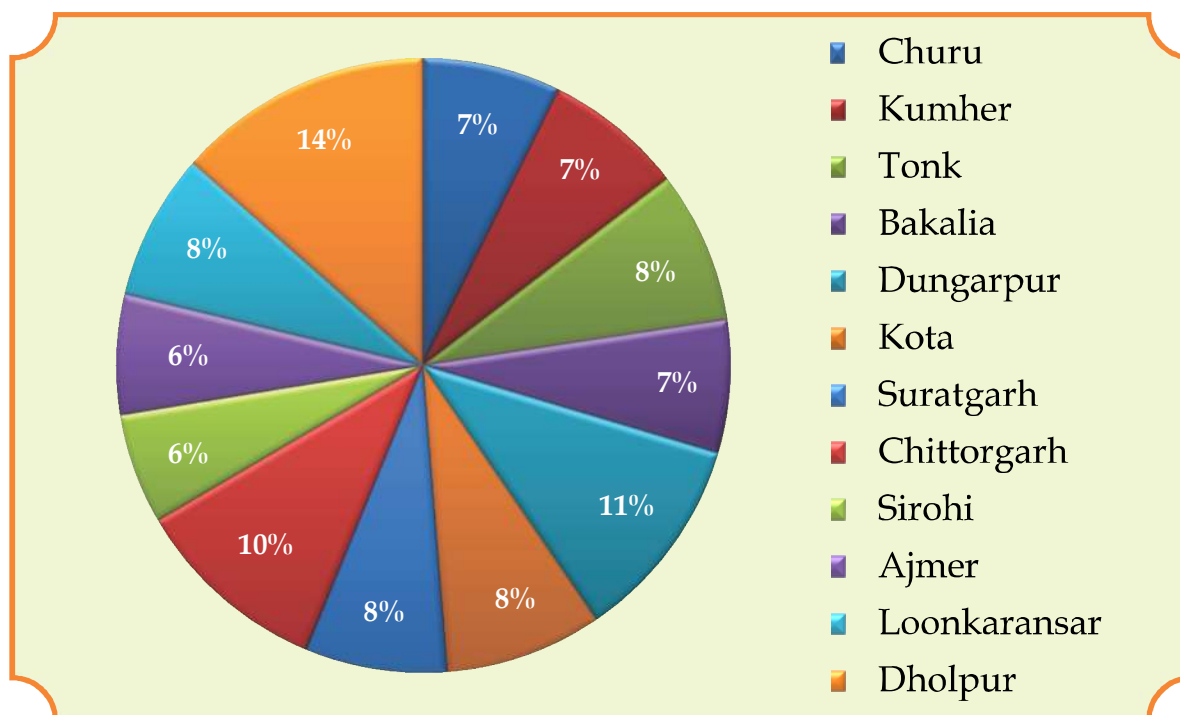
Centre	Training Programme					
	On campus	Off campus	Total Trainings	Male	Female	Total Participants
VUTRC, Churu	3	78	81	1289	1505	2794
VUTRC, Kumher	9	96	105	1551	149	1700
VUTRC, Tonk	0	86	86	2157	265	2422
VUTRC, Bakalia	7	85	92	2073	491	2564
VUTRC, Dungarpur	0	80	80	1003	1527	2530
VUTRC, Kota	0	99	99	2914	205	3119
VUTRC, Suratgarh	15	59	74	2047	374	2421
VUTRC, Chittorgarh	31	74	105	2092	877	2969
VUTRC, Sirohi	10	87	97	1807	1282	3089
VUTRC, Ajmer	0	63	63	1010	1035	2045
VUTRC, Loonkarnsar	12	65	77	2378	62	2440
VUTRC, Dholpur	8	88	96	1650	2485	4135
VUTRC, Jodhpur	0	72	72	1927	331	2258
<b>Total</b>	<b>95</b>	<b>1032</b>	<b>1127</b>	<b>23898</b>	<b>10588</b>	<b>34486</b>

## Training Programmes organized by VUTRCs (2018-19)





## Participants Benefitted by Trainings organized by VUTRCs (2018-19)



## Training programmes organized by other Centers of RAJUVAS (2018-19):

Centre/Scheme/Project	No. of Trainings	Participants		Total
		Male	Female	
Livestock Feed Resource Management and Technology Centre, Bikaner	9	343	0	343
Centre for Conservation of Animal Biodiversity, Bikaner	3	94	15	109
Centre For Organic Animal Production Technology, Bikaner	2	81	4	85
Center for Disaster Management Technology for Animals, Bikaner	13	333	118	451
RKVY project on Establishment of Live Demonstration Models of Diversified Livestock Production Systems for Motivating Adaption to Enhancing Agricultural Income, Bikaner	3	113	6	119
RKVY Project, Centre for Diagnosis, Surveillance and Response of Zoonotic Diseases, Post Graduate Institute of Veterinary Education and Research, Jaipur	9	178	35	213
College of Veterinary and Animal Science, Navania, Vallabhnagar, Udaipur	5	79	16	95
Animal Biomedical Waste Disposal Technology Centre, Bikaner	2	58	18	76
Centre for Studies on Wild Life Management & Health	3	96	5	101
<b>Total</b>	<b>49</b>	<b>1375</b>	<b>217</b>	<b>1592</b>



## Organization of Vichar Gosthi

Centre	No. of Activities	No. of Participants		
		Male	Female	Total
VUTRC, Churu	6	68	0	68
VUTRC, Kumher	2	22	0	22
VUTRC, Tonk	10	111	0	111
VUTRC, Bakalia	7	75	23	138
VUTRC, Dungarpur	7	50	34	84
VUTRC, Kota	10	73	4	77
VUTRC, Suratgarh	1	84	0	84
VUTRC, Chhitorgarh	5	47	32	79
VUTRC, Sirohi	9	67	10	77
VUTRC, Ajmer	1	0	49	49
VUTRC, Dholpur	9	109	108	217
<b>Total</b>	<b>67</b>	<b>706</b>	<b>260</b>	<b>1006</b>

## Organization of Farmers-Scientist Interaction

Centre	No. of Activities	No. of Participants		
		Male	Female	Total
VUTRC, Churu	6	87	0	87
VUTRC, Tonk	1	10	0	10
VUTRC, Kota	4	32	0	32
VUTRC, Suratgarh	5	400	0	400
VUTRC, Chhitorgarh	3	51	25	79
VUTRC, Sirohi	1	39	0	39
VUTRC, Ajmer	1	20	25	45
VUTRC, Lunkaransar	6	87	0	87
<b>Total</b>	<b>27</b>	<b>726</b>	<b>50</b>	<b>779</b>

## Organization of Animal Treatment Camps

Centre	No. of Activities	No. of Participants		
		Male	Female	Total
VUTRC, Kumher	1	11	0	11
VUTRC, Tonk	10	88	0	88
VUTRC, Dungarpur	4	15	3	18
VUTRC, Chhitorgarh	8	105	41	146
VUTRC, Sirohi	2	57	17	74
VUTRC, Ajmer	1	16	15	31
VUTRC, Dholpur	1	5	12	17
<b>Total</b>	<b>27</b>	<b>297</b>	<b>88</b>	<b>385</b>

## Organization of Demonstration/ Transfer of Technology

Centre	No. of Activities	No. of Participants		
		Male	Female	Total
VUTRC, Churu	5	3	2	5
VUTRC, Tonk	4	4	0	4
VUTRC, Bakalia	10	78	20	98
VUTRC, Dungarpur	4	0	0	0
VUTRC, Kota	12	11	1	12
VUTRC, Suratgarh	112	112	0	112
VUTRC, Chhitorgarh	6	6	0	6
VUTRC, Ajmer	86	49	56	105
VUTRC, Lunkaransar	0	25	2	27
VUTRC, Dholpur	3	12	20	32
<b>Total</b>	<b>242</b>	<b>300</b>	<b>101</b>	<b>401</b>

## Publication of Monthly Hindi Bulletin "Pashu Palan Naye Aayaam":

"Pashu Palan Naye Aayaam" a monthly bulletin is published by Directorate of Extension Education of the University. The bulletin contains information on animal husbandry practices, diseases and their prevention, improved feeding, breeding and management aspects for the use of livestock owners. In addition to this, important news in animal husbandry and agriculture sector, disease fore-warning and schedule of broad cast of "Dhine Re Batya" on AIR is also given. The bulletin is published on 1<sup>st</sup> of every month and 5000 copies disseminated to the farmers by post and during trainings. The bulletin has received wide appreciation and has been reported to be very useful by the farmers.

## Organization of Exhibitions:

The major activities of DEE is to prepare exhibits, models, display boards, etc., arranging exhibitions, highlighting research achievements in the fields of veterinary and animal science, and also to participate in exhibitions organised by other institutions/ organisations at National and State levels. This office arranges several exhibitions at National, State, Zonal and District levels.



Participation in Kissan Mela organized by  
Krishi Vigyan Kendra, Sangaria on 20<sup>th</sup> Dec 2018



Participation in Kissan Mela organized by  
P.D. ATMA, Sriganganagar on 28-29 Jan 2019

S.No.	Event	Place	Date
1	Foundation Day of NRCC	NRCC, Bikaner	5 July 2018
2	National Sheep and Wool Fair	CSWRI, Avikanagar, Tonk	29 September 2018
3	Krishi Fest-2018	NRCC, Bikaner	2 October, 2018
4	National Conference on Arid Horticulture for Enhancing Productivity and Economic Empowerment.	CIAH, Bikaner	27 October 2018
5	Kissan Mela	KVK Sangaria	20 December 2018
6	106 <sup>th</sup> Indian Science Congress (First Prize Received)	Lovely Professional University, Phagwara, Punjab	3-7 January 2019
7	Regional Arid Horticulture Fair	CIAH, Bikaner	27 January 2019
8	Kissan Mela	PD ATMA, Sriganganagar	28-29 January 2019
9	14 <sup>th</sup> Indian Science Congress	PUSA, New Delhi	20-23 February 2019
10	Kissan Mela (First Prize)	Sab Mandi Yard, Sriganganagar	22-24 February 2019
11	National Seminar on Entrepreneurship & innovation in Agriculture for Socio-Economic Empowerment of Farmers	SKRAU, Bikaner	12-13 March 2019



Participation in Kissan Mela organized by Sab Mandi Yard, Sriganganagar



## Fifth meeting of the Extension Education Council

Fifth meeting of the Extension Education Council was held on 15 March 2019 under the chairmanship of Hon'ble Vice-Chancellor, Prof. Vishnu Sharma. Vice-Chancellor pointed out that significant progress has been made by RAJUVAS in the entire sector i.e. Teaching, Research and Extension. The extension activities are very important through which we can reach to the door step of the farmer. Also the extension activities are the tunnels of technology through which we promote our technology for the farmers. In the state like Rajasthan, where traditional farming concept is there, extension activities through Veterinary University Training and Research Centres (VUTRCs) particularly skill development programmes incorporating our technologies, play an important role in this regard. In the meeting, the annual progress report for the year 2017-18 was presented by Prof. A.P. Singh, Director Extension Education. Power point presentations were given on progress made by the Officers Incharges of 13 VUTRCs and KVK of the University.



## SAC Meeting of KVK, Nohar (Hanumangarh-II):

Scientific Advisory Committee meeting of KVK, Nohar was organized under the Chairmanship of Director Extension Education, RAJUVAS, Bikaner, Prof. A.P. Singh on 07 March, 2018 at Nohar. In this meeting the annual progress report of KVK, Nohar for the year 2018-19 was presented and annual action plan for the year 2018-19 was discussed. Sh. Amar Singh Poonia, Pradhan-Panchayat Samiti Nohar, Dr. Ummed Singh Sekhawat, Regional Research Director, Sh. Jai Narayan Beniwal, Deputy Director, Agriculture, Dr. Hanuman Ram, Programme Co-ordinator, KVK, Sri Ganganagar, Dr. Anoop Kumar, Programme Co-ordinator, KVK, Sangaria & officials from line departments working in the district attended this meeting. Prof. A.P. Singh, Director Extension Education as Member Secretary organized this SAC meeting.



## Mera Gaon Mera Gaurav Programme:

After launching of the "Mera Gaon Mera Gaurav (My Village My Pride)" by Hon'ble Prime Minister on July, 2015 and the directives received from the ATARI, Jodhpur, Rajasthan University of Veterinary & Animal Sciences, Bikaner constituted 41 teams of multidisciplinary scientists. These teams have adopted 142 villages. Out of these



villages 134 villages has been covered and activities carried out during the year 2018-19. Teams have conducted 343 interface meetings, 114 demonstrations related to animal husbandry and 110 training programmes covering animal nutrition, breeding, health care and reproduction aspects in adopted villages. In these activities total 22222 farmers and livestock owners were benefitted. Activities have been carried out through creating strong linkages

with Government, Non-government, Cooperatives and NGOs in convergence mode. The teams are regularly visiting the selected villages and imparting the latest information on animal husbandry and agriculture to the farmers through different extension tools like goathi, mobile phones, literature, community radio etc. They are also sensitizing them with issues of national interests like Swatchh Bharat Abhiyan, Climate change, Water Conservation etc.



## Awards/Honours:

RAJUVAS exhibition stall was awarded and honoured one time in this year for outstanding exhibit stall in the State and National Level Exhibitions organized by other institutes.

S. No	Place	Date	Award
1.	Lovely Professional University, Phagwara, Punjab	3-7 January, 2019	Special Recognition Award
2.	Kissan Mela, Sri-ganganagar	22-24 February, 2019	1 <sup>st</sup> Award
3.	Pre-Rabi Meet, KVK, Sangaria	20 December 2018	1 <sup>st</sup> Prize in Exhibition Staff



VUTRC, Suratgarh was awarded with first prize in exhibit stall in Pre-Rabi Meet organized by KVK, Sangaria on 20<sup>th</sup> December 2018.

## RAJUVAS Exhibition at CSWRI, Avikanagar, Tonk

An exhibition was organized at CSWRI, Avikanagar, Tonk on 29 September, 2018. Chief Guest Sh. Radha Mohan Singh, Union Minister of Agriculture & Farmers Welfare, Govt. of India, Sh. Prabhu Lal Saini, Minister of Agriculture & Animal Husbandry, Govt. of Rajasthan, Dr. Trilochan Mohapatra, Secretary (DARE) & Director General, ICAR, New Delhi, Sh. Sukhbir Singh Jaunapur, MP, Tonk-SawaiMadhopur, Sh. Kanhaiya Lal Choudhary, MLA, Malpura (Tonk) and many





dignitaries visited the stall and discussed about the various technologies developed by RAJUVAS, Bikaner. During this fair approximate 1900 farmers were visited the RAJUVAS exhibition stall and get benefitted.

## **RAJUVAS Exhibition at 14<sup>th</sup> ASC, Pusa, New Delhi**

An exhibition was organized at Pusa, ICAR, New Delhi during 14<sup>th</sup> Agriculture Science Congress (ASC) from 20-23 February, 2019. The Mega Expo was inaugurated by Dr. Trilochan Mohapatra, Director General, ICAR, New Delhi. Many dignitaries visited the stall and discussed about the various technologies developed by RAJUVAS, Bikaner.



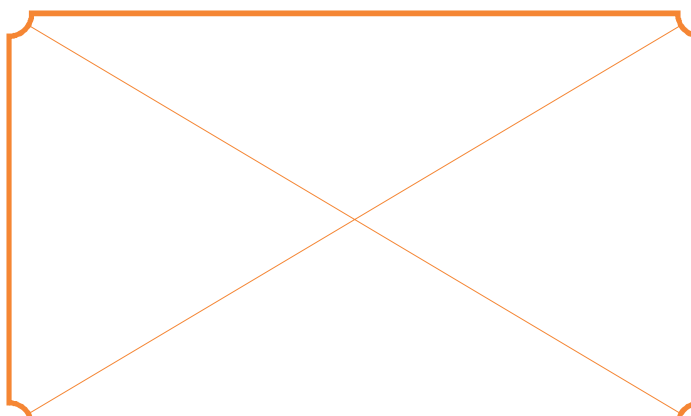
## **RAJUVAS Exhibition at CIAH, Bikaner**

An exhibition was organized at Central Institute of Arid Horticulture, Bikaner during "National Conference on Arid Horticulture for Enhancing Productivity and Economic Empowerment" held on 27 October, 2018. Dr. Trilochan Mohapatra, Secretary (DARE) & Director General, ICAR, New Delhi was the Chief Guest of this conference. Many farmers visited the RAJUVAS exhibition stall and were benefitted.



## **RAJUVAS Exhibition at Phagwara, Punjab**

An exhibition was organized at Lovely Professional University, Phagwara, Punjab during 106<sup>th</sup> Indian Science Congress (ISC) "Pride of India Expo" from 3-7 January, 2019 on the theme of Future India-Science and Technology. The Mega Expo was inaugurated by Prime Minister Sh. Narendra Modi. Many dignitaries visited the stall and discussed about the various technologies developed by RAJUVAS, Bikaner. RAJUVAS has received an award in Special Recognition category.



## **Agriculture Fair KRISHIFEST-2018 organized**

The Centre successfully organized KRISHI FEST-2018, agriculture fair jointly with ATMA, Bikaner on 2<sup>nd</sup> October 2018, in which 65 stalls of various institutes of ICAR, SAU, SVU, NGOs and private entrepreneurs exhibited their activities, technologies and products developed. More than 2500 farmers from 7 blocks of Bikaner district including the farmers and livestock keepers from Indo-Pak border area participated in the event.



## RAJUVAS Exhibition at NRCC, Bikaner

Dr. A.K. Gahlot, former Vice Chancellor, RAJUVAS expressed confidence that the human medicinal utility aspect of Camel milk and immunology is being rightly addressed by NRCC team and need follow up. More than 40 farmers from TSP areas of Sirohi districts and backward district Jaisalmer participated in the event.

District level bhavya Kishan Mela in Submandi yard, Srigangangar 22-24 feb. 2019. First award VUTRC Suratgarh.





## 7. Awards

The following students of the University felicitated on Independence Day (15<sup>th</sup> August 2018) for appearing in the University merit list of the result declared after the Republic Day (26<sup>th</sup> January 2018).

S.No.	Name	Rank	College
<b>Final Year B.V.Sc. &amp; AH</b>			
1.	Rohit Kumar Sharma	I Rank	Arawali Veterinary College, Sikar
2.	Shahista Sarin Lodhi (Miss)	II Rank	College of Veterinary and Animal Science, Bikaner
3.	Rohit Juneja	III Rank	Arawali Veterinary College, Sikar
4.	Nistha Yadav (Miss)	IV Rank	College of Veterinary and Animal Science, Bikaner
5.	Neha Sharma	V Rank	College of Veterinary and Animal Science, Bikaner

### CVAS, Bikaner Alumni getting prestigious positions

1.	Dr. Ajit Singh Mahala	Selected as Scientist in ICAR by Agricultural Scientist Recruitment Board
2.	Dr. Ranjeet Singh Godara	Selected as Scientist in ICAR by Agricultural Scientist Recruitment Board
3.	Dr. Subhash Kumar	Selected as Assistant Commandant in Border Security Force
4.	Dr. Anurag B Arya	Selected as Assistant Commandant in Border Security Force
5.	Dr. Amit	Selected as Assistant Commandant in Border Security Force
6.	Dr. Shabd Prakash	Selected as Assistant Commandant in Border Security Force

The followings officers/teachers/scientists/ ministerial staff of the University felicitated on Independence Day (15<sup>th</sup> August 2018) for their outstanding contribution.

S. No.	Name	Description
1	Sh. Bhura Lal Class-IV, Dept. of Clinical Medicine, CVAS, Bikaner	Hard working, Dedicated & Excellent worker.
2	Sh. Dau Lal Class -IV, Vety. Pharmacology & Toxicology, CVAS, Bikaner	Hard working, Dedicated & Excellent worker.
3	Sh. Durg Singh Class-IV, LRS, Chandan	Hard working, Dedicated & Excellent worker.
4	Sh. Mahesh Singh Helper, Eng. & Technology Center	Hard working, Dedicated & Excellent worker.



# Annual Report 2018-19

S. No.	Name	Description
5	Safi Mohammad Driver, LRS, Chandan	Hard working, Dedicated & Excellent worker.
6	Sh. Arjun Singh Treasury Officer, S.O. Accounts	Hard working, Dedicated & Excellent worker.
7	Dr. Virendra Kumar Asstt. Professor (ABG) LRS, Kodemdesar	Significant contribution in revenue generation of about Rs. 1.5 crore at LRS Kodemdesar during 2017-18.
8	Dr. Taruna Bhati Asstt. Professor, Deptt. of Vety Microbiology and Biotechnology, CVAS, Bikaner	Selected as Member in editorial board of Indian Journal of Veterinary and Journal of Immunology and Vaccine Technology.
9	Dr. Sanweer Khatoon Asstt. Professor, Vety. Parasitology, CVAS, Navania	Organized XXVII National Conference of Vety. Parasitology as organising secretary from 12-14 <sup>th</sup> February, 2018
10	Dr. Pradeep Kumar Asstt. Professor, Vety. Surgery & Radiology, CVAS, Navania	Specific Contribution as Editorial Board Member
11	Dr. Mukesh Chand Sharma Asstt. Professor, CVAS, Navania & Co-PI, NMPS, Project, LRS, Bojunda, Chittorgarh, RAJUVAS, Bikaner	"NMPS Project at LRS, Bojunda"
12	Dr. Dinesh Manoharrao Chavhan Asstt. Professor, LPT CVAS, Navania	Started milk parlour for sell of milk products under experiential learning & entrepreneurship programme.
13	Dr. Chandra Shekhar Saraswat Asstt. Professor, Vety. Gynaecology, CVAS, Navania	Embryo Transfer work in Indigenous Cattle (Tharparkar)
14	Dr. Ashok Dangi Asstt. Professor Deptt. of Vety. Anatomy & Histology, CVAS, Bikaner	Appointed as Executive Editor in Chief of International Journal " Camel - International Journal of Veterinary Science"
15	Dr. Shiv Kumar Sharma Assoc. Professor Vety. Medicine, CVAS, Navania	Elected as Member Editorial Board Indian Journal of Veterinary Medicine (ISVM)
16	Dr. Sunanda Sharma Associate Professor Deptt. of Vety. Gynae & Obst., CVAS, Bikaner	Selected as editor for "Scholars Journal of Agriculture and Veterinary Science (SJAVS)".



# Annual Report 2018-19

S. No.	Name	Description
17	Dr. A.P. Singh Head, Department of Clinical Medicine, Ethics & Juris., CVAS, Bikaner	Elected as Vice President of Indian Society of Veterinary Medicine (ISVM).
18	Prof. R.K. Dhuria Dean & Professor CVAS, Navania	Elected as Vice-President (West Zone) of Animal Nutrition Association, IVRI, Izatnagar.
19	Best Unit on Campus	IUMS Center RAJUVAS, Bikaner
20	Best Unit on Campus	Office of Coordinator, AHDP

## 26<sup>th</sup> January 2019

The following students of the University felicitated on Republic Day (26<sup>th</sup> January 2019) for appearing in the University merit list of the result declared after the Independence Day (15<sup>th</sup> August 2018).

S.No.	Name	Rank	College
<b>First Year B.V.Sc. &amp; AH - 2018</b>			
1.	Hardik Arya	I Rank	Apollo College of Veterinary Medicine, Jaipur
2.	Aditya Arora	II Rank	Arawali Veterinary College, Sikar
3.	Poonam Saini	III Rank	Mahatma Jyotiba Fule College of Veterinary and Animal Science, Chomu
4.	Tejpal	IV Rank	Post Graduate Institute of Veterinary Education and Research, Jaipur
5.	Rama Kumari	V Rank	College of Veterinary and Animal Science, Navania, Vallabhnagar
<b>Second Year B.V.Sc. &amp; AH - 2018</b>			
6.	Yogesh Dokwal	I Rank	Post Graduate Institute of Veterinary Education and Research, Jaipur
7.	Akansha Sharma	II Rank	College of Veterinary and Animal Science, Bikaner
8.	Yogesh Kumar Sharma	III Rank	Post Graduate Institute of Veterinary Education and Research, Jaipur
9.	Ravi Sharma	IV Rank	College of Veterinary and Animal Science, Bikaner
10.	Yamini Khatri	V Rank	College of Veterinary and Animal Science, Navania, Vallabhnagar

S.No.	Name	Rank	College
<b>Third Year B.V.Sc. &amp; AH - 2018</b>			
11	Garima Rathore	I Rank	College of Veterinary and Animal Science, Navania, Vallabhnagar
12	Keshav Gaur	II Rank	College of Veterinary and Animal Science, Bikaner
13	Bhavneet Singh Wadhwa	III Rank	Arawali Veterinary College, Sikar
14	Vimla Saran	IV Rank	College of Veterinary and Animal Science, Navania, Vallabhnagar
15	Ayusha	V Rank	College of Veterinary and Animal Science, Bikaner
16	Priya Darshika Shekhawat	V Rank	Post Graduate Institute of Veterinary Education and Research, Jaipur
<b>Fourth Year B.V.Sc. &amp; AH - 2018</b>			
17	Manju Alexander	I Rank	Arawali Veterinary College, Sikar
18	Inupala Sreenavya	II Rank	Mahatma Jyotiba Fule College of Veterinary and Animal Science, Chomu
19	Mohan Lal Sharma	III Rank	College of Veterinary and Animal Science, Bikaner
20	Silpa. S	III Rank	Arawali Veterinary College, Sikar
21	Nalini Singhal	IV Rank	College of Veterinary and Animal Science, Bikaner
22	Parvathy. R.S	V Rank	Arawali Veterinary College, Sikar
23	Swetha Yeluri	V Rank	Mahatma Jyotiba Fule College of Veterinary and Animal Science, Chomu
24	Battagiri Sangita	V Rank	Mahatma Jyotiba Fule College of Veterinary and Animal Science, Chomu
<b>First Year AHDP - 2018</b>			
25	Sanam	I Rank	AHDP institute, Livestock Research Station, Nohar Hanumangarh
26	Rohit Kashyap	II Rank	Govt. Animal Husbandry Training Institute, Mokhapara, Kota
27	Yogesh Kumar Yadav	III Rank	Govt. Animal Husbandry Training Institute, Mokhapara, Kota
28	Rirmal Ram	III Rank	Cambridge Nursing institute of Veterinary Science, Baldev Nagar, Barmer
29	Asha Kumari	IV Rank	Choudhary College of Animal Husbandry, Sadulpur, Churu



S.No.	Name	Rank	College
30	Rajesh Dukiya	IV Rank	AHDP Institute, Livestock Research Station, Nohar, Hanumangarh
31	Dhanna Ram Sangwa	IV Rank	Jawan Singh Memorial Veterinary & Animal Husbandry College, Bhinmal, Jalore
32	Priyanka Kharetiya	V Rank	Govt. Animal Husbandry Training Institute, Bassi Chak, Jaipur

## Second Year AHDP - 2018

33	Saroj	I Rank	Govt. Animal Husbandry Training Institute, Ratanada, Jodhpur
34	Sana	II Rank	Govt. Animal Husbandry Training Institute, Ratanada, Jodhpur
35	Devendra Kumar Sharma	III Rank	Govt. Animal Husbandry Training Institute, Chaitak Circle, Udaipur
36	Ankita Bhakar	IV Rank	Swami Vivekanand Veterinary institute, Sikar
37	Reetu Bola	V Rank	Poddar Animal Husbandry Diploma Institute, Alwar

**Students selected in 23<sup>rd</sup> All India Pre PG examination conducted by ICAR and awarded JRF/SRF/INSPIRE fellowship or got placement in National reputed institutes.**

38. Dr. Neelam Dinodiya, CVAS, Bikaner got admission in PhD.
39. Ms. Shahista Sarin, CVAS, Bikaner got 5<sup>th</sup> Rank
40. Ms. Nishta Yadav, CVAS, Bikaner got 28<sup>th</sup> Rank
41. Ms. Neelam Kumari, CVAS, Bikaner got 89<sup>th</sup> Rank
42. Mr. Deepak Chopra, CVAS, Bikaner got 93<sup>rd</sup> Rank
43. Ms. Ankita Pal, CVAS, Bikaner got 130<sup>th</sup> Rank
44. Ms. Apeksha Jangir, CVAS, Bikaner got 179<sup>th</sup> Rank
45. Ms. Anita Tanwar, CVAS, Bikaner got 202<sup>nd</sup> Rank
46. Ms. Himani, CVAS, Bikaner got 382<sup>nd</sup> Rank
47. Ms. Kavita Kumari, CVAS, Bikaner got 434<sup>th</sup> Rank
48. Miss Kavipriya Jayswal, CVAS, Navania got 13<sup>th</sup> Rank
49. Miss Shalu Swami, CVAS, Navania got 39<sup>th</sup> (OBC-17) Rank
50. Nikhilpal Bajia, CVAS, Navania got 153<sup>rd</sup> Rank
51. Jayesh Vyas, CVAS, Navania got 155<sup>th</sup> Rank
52. Manuprabh Sharma, CVAS, Navania got 167<sup>th</sup> Rank
53. Miss Sonu Shekhawat, CVAS, Navania got 214<sup>th</sup> Rank
54. Pradeep Makawana, CVAS, Navania got 298<sup>th</sup> Rank
55. Rahul Kumar, CVAS, Navania got 290<sup>th</sup> (SC-47) Rank

**NCC Cadets awarded** Silver Medal in kho-kho during “Ek Bharat Shresth Bharat” National Integration Camp held at Jaisalmer from 12<sup>nd</sup> to 23<sup>rd</sup> Nov 2018.

56. Ms. Yashmita Shekhawat, IV Year B.V.Sc & A.H., CVAS, Bikaner

57. Ms. Divya Choudhary, IV Year B.V.Sc & A.H., CVAS, Bikaner

**Alumni selected in distinguished institutes**

58. Dr. Abhinav Upadhyay alumni of CVAS, Bikaner - selected as Assistant Professor at University of Connecticut, Storrs, Connecticut, USA.

59. Dr. Kirti Goyal, CVAS, Bikaner - selected in Indian Administrative Services 2017.

60. Dr. Aman Bishla, RAJUVAS, Bikaner selected in Indian Administrative Services 2017.

61. Dr. Aashish Tanwar, M.V.Sc., CVAS, Navania for social services done for stray animal.

## 8. Dignitaries Visit

1. DDG, NCC Air Commodore T.K. Sinha visited the NCC unit of college on 27 April, 2018. He inaugurated newly built NCC mess and witnessed of drill demonstration presented by SD and JD cadets. Thereafter, he visited the college campus and other units along with Dean.
2. Annual inspection of 1 Raj R & V SQN was done by NCC Group Commander Col. Sudhanshu Sharma on 08.05.2018. He appraised the activities done by the Unit and motivated the Cadets to contribute in the development of the Nation.
3. A four members UGC team inspected the facilities on 3-4 August, 2018 for inspection, evaluation of ongoing teaching research, extension activities and status of infrastructure, human resource, animal farms and other units according to accreditation procedure and norms of UGC for accreditation of RAJUVAS under 12-B. Four members team included Prof. N.C. Patel, Vice-Chancellor, Anand Agriculture University, Gujarat, Smt. Mamta R. Agarwal, Member Secretary, UGC, Prof. P.D. Juyal, Vice-Chancellor, Nanaji Deshmukh Veterinary Science University, Jabalpur (MP), Prof. G.K. Singh, Dean, Veterinary College, GBPUAT, Pantnagar (UK). UGC team also interacted with all teaching, non teaching staff and students.

P.K. Shukla, Former Joint Commissioner (Poultry), Govt of India and Registrar & Dean PGS, DUVASU Mathura, Prof. Vijaya Rani, Department of Biotechnology, TANUVAS, Chennai and Prof. R.V. Gaikwad, Department of Veterinary Medicine, Bombay Veterinary College, Parel, Mumbai inspected the facilities available at college as per the MSVE -2016. Prof. R.K. Dhuria, Dean, CVAS, Navaina coordinated this visit.



5. DDG (Education), ICAR, New Delhi Prof. N.S. Rathore visited RAJUVAS, Bikaner on 17<sup>th</sup> September, 2018. Prof. Rathore addressed Dean-Directors and faculty members of University and said that RAJUVAS is prestigious University with a fast pace in the country. Prof. Rathore emphasized on different funding schemes of ICAR including World Bank funding project, Green initiative and Institutional Development Plan. Prof. Vishnu Sharma, Vice-Chancellor presided over the function and made brief presentation about teaching, research and extension activities of University.



4. A three member committee constituted by Ministry of Agriculture and farmers Welfare, New Delhi visited and inspected the facilities of CVAS, Navania, Vallabh Nagar, Udaipur on 17-19 September, 2018 for inclusion in Schedule-I of IVC act 1984. The committee members including Prof.



6. Dr. Mohammed Shamsuddin, Livestock Officer, Food and Agriculture Organization of United Nations visited PGIVER, Jaipur on 8<sup>th</sup> February, 2019. He visited different departments, Veterinary Clinical Complex and Livestock Farm Complex of the institute and got acquainted with the available facilities.
7. Eight members of Bangladesh Fisheries and Livestock Ministry, Dhaka visited the RAJUVAS on 27<sup>th</sup> February, 2019.





## 9. Future Vision

Eleven new centers were proposed to State Govt. for consideration under state plan and have been sanctioned. These new centres clearly state the future strategy of University to meet the objective of arriving at animal husbandry led growth of the Rajasthan State.

### Some highlights of future vision of University are given here under

- Introduction of new courses at all the levels of education, i.e., under graduate, post-graduate and doctoral levels shall be started keeping in view the social need, technological advancements, market driven need, production and rural economy based, self employment oriented entrepreneurship.
- Vocational certificate/Diploma course to train educated youth will be introduced in a wide range of fields for which adequate facilities as well as resources will be generated. Most of these courses shall be need based and employment oriented to be conducted on self-sustaining basis.
- In order to strengthen teaching for undergraduate and post-graduate students, concept of smart classes to modernize the teaching and training methodology and to make it more accessible to all the students uniformly, irrespective of any barrier.
- Complete automation of college library shall be attained. This will include 'Reference retrieval system' for each student and teacher/scientist of this College. The facility shall be easy to access and capable of supplying all latest as well as complete scientific information generated anywhere in the world.
- For faculty improvement policies will be adopted to facilitate faculty for having more and more access to knowledge sources as well as skill enhancement tools for the improvement in standards of teaching as well as research.
- Collaborative teaching as well as research linkages will be established with top national and international institutes and universities. Foreign student inflow shall be obtained through such collaborations. Students of this institute shall also be provided opportunities to complete part of their research at such collaborative foreign universities/institutes.
- Animal Biotechnology has been identified as the priority area wherein emphasis will be laid on the identification of causal agents of infectious diseases, of animals, development of diagnostic biological and development of biological products for prophylaxis. Animal biotechnologists will work in liaison with scientists involved in 'Weather based forecasting of Animal Diseases another important area wherein the scientists have already started working in order to know the incidence of probable disease in advance.
- Research on indigenous breeds of cattle and other animal species will be strengthened to conserve pure indigenous germplasm and improvement of indigenous breeds in terms of milk production, meat production and wool production.
- Establishment of Veterinary University Training and Research Centre (VUTRC), at district level to streamline the extension services of the University to the grass root level in the state for effective communication of newer technologies and consultation to solve the problems of the farmers. At these centres, the provision of first aid, disease diagnosis, feed and fodder testing, milk and meat testing may be facilitated.
- Establishment of e-kiosk for direct communication of farmers with the experts of University for consultation and solution of the problems faced by farmers and field functionaries round the clock.

## Strategies for future Road Map

### Vision

Make available appropriately trained human resource, generate suitable technologies and transfer new technical knowledge to stakeholders for the purpose of enhancing income of farmers and landless livestock owners through Animal Husbandry in Rajasthan.

### Thrust areas

- Strengthening of Veterinary Education in the state by creating centres of excellence for higher education in Veterinary & Animal Sciences and furthering the advancement of learning and conduction of research for making provision for imparting education towards development of quality human resource in different branches of study in Veterinary and Animal Sciences.
- Promoting partnership and linkages with national and international educational institutions by establishing vital linkages with the concerned line departments working in the fields of animal husbandry, fisheries and dairy development, animal technology in the state.
- Establishment of Heritage Gene Banks of all Indigenous breeds of Livestock
- Diversification of animal husbandry towards newer fields of fisheries, poultry duckery, rabbitary, etc.

## Generating appropriate technologies in the following fields:

- Conservation of animal biodiversity
- Alternative veterinary medicine
- Ethno veterinary practice
- Organic animal production
- Wild animal health and management
- Engineering in animal sciences
- Space based technologies for animal sciences
- Feed and fodder resource management
- Identification of unwanted ingredients in feed and fodder as well as milk
- Animal biomedical waste disposal
- Pasture development
- Fodder production, preservation and conservation
- Use of assisted reproduction technologies like IVF, ET, Synchronisation, etc.
- Tracking animal disease epidemiology with particular reference to dreaded diseases like HS, etc.
- Neonatal mortality in farm animals
- Diagnostic imaging in veterinary practice
- Nutrition and physiological interventions for enhancing reproductive performance in animals

# विश्वविद्यालय-गान

राजस्थान ( राजूवास ) पशु चिकित्सा पशु विज्ञान विश्वविद्यालय  
ज्ञान विज्ञान, प्रशिक्षण, शिक्षण, प्रसार और नवशोध आलय  
राजस्थान पशु चिकित्सा पशु विज्ञान विश्वविद्यालय

लक्ष्य चिकित्सा, पशु स्वास्थ्य व आर्थिक युग का अवलंबन  
नवल नस्ल संधान, नई तकनीक विकास, प्रगति का स्पंदन  
व्याधि नियंत्रण, खाद्य प्रबंधन, पशु उत्पाद प्रवर्तन  
कृषि नीति का पंथ प्रदर्शन, शस्य श्यामला संवर्धन  
गौरव प्रदेश का शीर्ष देश का, मरु संस्कृति की लय  
राजस्थान ( राजूवास ) पशु चिकित्सा पशु विज्ञान विश्वविद्यालय

पशु धन का कल्याण सर्वदा, दुग्ध, दधि, लवनी आह्लाद  
मरुभूमि की सरस सम्पदा, सत्यं शिवं सुन्दरं नाद  
पर्यावरण प्रिय, सत्व सखा, और ग्राम्यजन उपकारी  
कृषक मित्र पशु धन संरक्षक, यही सर्वजन हितकारी  
सर्वे भवन्तु सुखिनः दृष्टा, कारक जगत निरामय  
राजस्थान ( राजूवास ) पशु चिकित्सा पशु विज्ञान विश्वविद्यालय  
ज्ञान विज्ञान, प्रशिक्षण, शिक्षण, प्रसार और नवशोध आलय  
राजस्थान पशु चिकित्सा पशु विज्ञान विश्वविद्यालय  
पशुधनं नित्यं सर्वलोकोपकारकं, जय पशुधनम्, जय जय पशु पालकं

जय जय राजूवास





**Directorate of Prioritization, Monitoring and Evaluation Cell**  
**Rajasthan University of Veterinary and Animal Sciences**

Bijay Bhawan Palace. Near Pt. Deen Dayal Upadhyay Circle,  
Bikaner-334001 (Rajasthan) India

Tel. : +91 151-2543419 (O) 2544297 (Tele-fax),

E-mail : [vcrajuvas@gmail.com](mailto:vcrajuvas@gmail.com); [dpmerajuvas@gmail.com](mailto:dpmerajuvas@gmail.com)

---

Printed at : Diamond Printers & Stationary