

**Minutes of the 6<sup>th</sup> Research Council Meeting held on 14.02.2020 at 10.30 AM in  
Vice Chancellors Secretariat RAJUVAS Bikaner**

The Member Secretary and Director Research Prof. (Dr) R K Singh at the outset of the meeting welcomed all the members of Research Council, invitees and scientists. He informed the members that during previous year A.I. has been started in place of natural service in all the Cattle Breeding Farms except Malvi Cattle where it will be started when the frozen semen is made available. Extensive culling of unproductive animals has been done and steps have been taken for organic certification of agricultural land and animals. “देशी गौवंश दुग्ध पार्कर” have been started in Bikaner and sale point is also working at Vallabh Nagar to sensitize society for safe, healthy, pure and organic milk and milk products. University has started manufacturing its own mineral mixture and Officer Incharges have been directed to procure as per their need and mineral mixture purchase from outside university agencies will be considered unauthorized. After brief introduction of Research Council, he requested Hon’ble Vice-Chancellor and Chairman Research Council for opening remarks and sought permission to start proceedings.

Prof. (Dr) Vishnu Sharma Hon’ble Vice Chancellor and Chairman Research Council welcomed all the dignitaries, Head of the Departments, Scientists, Principal Investigators and invitees attending the meeting and informed the house about the unique initiatives taken by the University for betterment of research activities in the RAJUVAS. Directives have also been given to Officer Incharges of LRSs and State Plan Centres for face lifting and visible attractive look. PIs of State Plan centres and AICRP projects have geared up their research activities and the work of these centres and projects is getting recognition. Atmosphere in university has been created for extending free suggestions and problems to be discussed with the authority. Thereafter Hon’ble Vice Chancellor directed the Director Research to take up the business of council Agenda wise.

- 1. Agenda Item AI-01/RC-05/RAJUVAS/2018-19:** To confirm the minutes of 5<sup>th</sup> Research Council meeting.

The minutes of 5<sup>th</sup> Research Council meeting were confirmed.

- 2. Agenda Item AI-02/RC-05/RAJUVAS/2018-19:** Action Taken Report on the minutes of 5<sup>th</sup> Research Council meeting.

Action Taken Report on 5<sup>th</sup> Research Council meeting was approved.

- 3. Agenda Item AI-03/RC-05/RAJUVAS/2018-19:** Review of the progress of ongoing research projects and approval of the Annual Report 2018-19.

Annual Report 2018-19 compiled by the Directorate of Research was accepted and approved by the house. Review of the progress of ongoing Research Projects and their presentation were taken after discussing other agenda of the meeting.

- 4. Agenda Item AI-04/RC-05/RAJUVAS/2018-19:** Sale of RACP animals to Farmers, Govt. Agencies, NGOs.

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It was resolved that Director Research and PIs would closely examine the commitment of university given by the Govt and thereafter discuss the matter with RACP and State Govt. Officials in this matter and would decide about disposal of bucks and other animals.

(Action: DR & PI)

- 5. Agenda Item AI-05/RC-05/RAJUVAS/2018-19:** The proposals for Human Resource under the LRS Bojunda Chittorgarh.

The proposal regarding Human Resource should be considered by the finance section of the university and proper proposal be submitted by PI for inclusion in BFC for approval.

(Action- PI & Comptroller)

- 6. Agenda Item AI-06/RC-05/RAJUVAS/2018-19:** To consider the proposal from Vaccinology and Biological Products Research Centre.

It was informed in the house that revision of the objectives of the centre is not possible through this council. The PI should work as per the objectives in the original project, if there is any problem then it can be sorted out after giving due justification.

For Human Resource proposal be sent in proper form for consideration in the BFC.

(Action- PI & Comptroller)

For developing animal house, the construction should go as per the funds available in the project, for additional funds new proposals be sent to RKVY and other development agencies by the PI through Director Research.

(Action: PI)

- 7. Agenda Item AI-07/RC-05/RAJUVAS/2018-19:** Submission of New projects of RKVY.

The house appreciated the efforts made by the Directorate for sending six new project proposals under RKVY. However, it was further suggested that if any new RKVY proposal is submitted then the Nodal Officer RKVY may make efforts to get it through table agenda.

- 8. Agenda Item AI-08/RC-05/RAJUVAS/2018-19:** Approval of the revised objectives of Livestock Research Stations.

Research Council confirmed and approved the revised mandate of LRSs as follows:

- i. To establish, strengthen and execute various livestock based research and development activities, schemes and projects etc.
- ii. To conserve indigenous germplasm of livestock available in various parts of Rajasthan and its dissemination for breed improvement.
- iii. To conduct research work on scientific breeding, feeding, health and management aspect of livestock including fodder production.
- iv. To generate revenue using available infrastructural facilities, land and livestock resources.
- v. To facilitate university students for education, research and training utilizing farm infrastructure.
- vi. To demonstrate use of various technologies for the benefit of livestock breeders.

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vii. To coordinate and liaison with Government, various NGOs and development agencies for effective strengthening of farms.

**9. Agenda Item AI-09/RC-05/RAJUVAS/2018-19:** Approval of the objectives of various State Plan Centres.

Research Council approved the objectives of various State Plan Centres as per **Annexure 1**.

**10. Agenda Item AI-10/RC-05/RAJUVAS/2018-19:** Clarification regarding administrative control of the ICAR projects.

It was resolved that the execution of ICAR research projects by their respective PIs should be under the administrative control of Director Research. The units located in College and LRSs or other such stations/centres may take help from the concerned Dean/Incharges through Director Research as and when required.

**(Action: PIs of ICAR projects)**

**11. Agenda Item AI-11/RC-05/RAJUVAS/2018-19:** Strengthening of LRSs through regular employees.

It was resolved that the Registrar may consider the matter regarding strengthening of LRSs through posting of regular employees at LRSs.

**(Action: Registrar)**

**12. Agenda Item AI-12/RC-05/RAJUVAS/2018-19:** Models for exhibits from different State Plan Centres.

It was resolved that the PI's of State Plan Centres should develop depictable models pertaining to specialized field of their centre for exhibitions of RAJUVAS at various platforms.

**(Action: All PIs of State Plan Centres)**

**13. Agenda Item AI-13/RC-05/RAJUVAS/2018-19:** Regular quarterly review of LRSs and State Plan Centres, Research projects and Revolving Fund projects.

It was resolved that Director Research should quarterly review all the projects including RKVY projects through meeting at appropriate locations.

**(Action: Director Research)**

**14. Agenda Item AI-14/RC-05/RAJUVAS/2018-19:** Installation of feed processing unit to be established under RKVY.

The proposal was approved, Director Research is authorized to identify locations for ensuring timely feed supply to all LRSs.

**(Action: DR & PI)**

**15. Agenda Item AI-15/RC-05/RAJUVAS/2018-19:** Solar Power and Water Recharging System.





It was resolved that Director Works should include installation of Solar Power and Water harvesting System while preparing estimates of new construction works. Efforts should also be made by the Director Works to install Solar power and Water harvesting System out of its available budgetary provisions where new construction are not in operation.

**(Action: Director Works)**

- 16. Agenda Item AI-16/RC-05/RAJUVAS/2018-19:** Charges for high end equipments used by the outside agencies/ person and sale of research products to the industry.

It was resolved that Director Research may constitute a committee after consulting Hon'ble Vice Chancellor to decide charges for using high end equipments by the outside agencies.

For sale of research products of university, a company secretary may be consulted for exploring possibility.

**(Action: Director Research)**

- 17. Agenda Item AI-17/RC-05/RAJUVAS/2018-19:** Patenting of RAJUVAS research technologies and NABL accreditation of laboratory.

Hon'ble Vice Chancellor informed that university has already hired a patent lawyer for filing patents by the university. All the scientists requiring patenting of their research may contact patent cell. For accreditation of laboratory through NABL respective lab Incharges and institutional head may contact Director Research RAJUVAS who is undertaking this activity.

**(Action: Deans/ Directors/Incharges Patent cell)**

- 18. Agenda Item AI-18/RC-05/RAJUVAS/2018-19:** Workshops by the State Plan Centres.

It was resolved that State Plan centres should organize workshop at least once in two years and the funds for such workshops should be arranged by the PIs through applications to funding sources/ outside agencies if the provision does not exist in their project. Director Research would monitor the efforts made by the PI's.

**(Action: DR & PIs State Plan Centres)**

- 19. Agenda Item AI-19/RC-05/RAJUVAS/2018-19:** Work distribution of Dean CVAS Navania, Officer Incharges LRS Vallabh Nagar and Principal Investigator of various projects.

Regarding the work distribution it was resolved that the department, hostels, institutional research and facilities for general uses be under the administrative control of the Dean. The Gir cattle farm, agriculture crops and the fodder production work should be under administrative control of the Officer Incharge LRS Vallabh Nagar. The ICAR sponsored research project NWPBI, AICRP Goat and MSSP etc should be executed by the respective PI under the administrative control of Director Research. The Dean CVAS Navania should be a facility provider and guiding authority for all these units. Director Research informed as the work of accounts, establishment and stores etc of research units is being shared by the staff engaged at CVAS/LRS/other projects so it will be continued till further decision is made by committee to be constituted by Director Research. The proposal was discussed in house and approved.

**(Action: Director Research)**





**20. Agenda Item AI-20/RC-05/RAJUVAS/2018-19:** Organic certification of land and goat unit at Goat Breeding Farm, Angai, Sarmathura.

It was proposed that objectives of Goat Breeding Farm, Angai should also be similar to that of other LRSs of this university with specific stress on goat. Since the grazing land available with this farm has not been put to cultivation, hence efforts be made for organic certification of land as well as organic goat production at this station.

Proposal was approved, the Principal Investigator Angai farm should discuss with Principal Investigator of COAPT and take steps for organic certification of land on priority.

Hon'ble Vice Chancellor desired that a committee of following be constituted to identify farm land suitable for organic conversion and certification to fulfill requirement of feed & fodder.

1. Director Research RAJUVAS Bikaner
2. Incharge COAPT RAJUVAS Bikaner
3. Incharge LFRMTC RAJUVAS Bikaner
4. Head AGB CVAS Bikaner
5. Officer Incharge concern LRSs

The committee will submit the report by March 2020 end. Committee shall also workout option of revenue generation through resources of LRSs. Director Research may co-opt another member for the committee if required.

**(Action: DR/PI Goat Breeding Farm, COAPT, LFRMTC/ Head AGB/O/I LRSs)**

Various PIs of ICAR projects, State Plan centres and LRSs presented the progress of work in their respective projects. Hon'ble Vice Chancellor expressed the satisfaction over their work. Following action points were resolved to be undertaken by the PIs.

1. All the PIs of AICRP or Network projects should make efforts to achieve grade 'A' in their performance evaluation by ICAR. The project Incharge for Sojat Goat may consult Dr S C Mehta, Officer Incharge, NRC on Equines, Bikaner for submitting paper regarding inclusion of Sojat Goat as a separate goat breed in the list prepared by NBAGR.

**(Action: All PIs of ICAR projects)**

2. For digitalization of all farm records the available modules with IUMS may be used by all Officer Incharges of LRSs for online feeding of data pertaining to animal record, feed & fodder and record relating to production & reproduction performance of the herd. Any assistance/clarification regarding use of online modules if required may be obtained from Incharge IUMS cell RAJUVAS Bikaner.

**(Action: Officer Incharge All LRSs & Incharge IUMS)**

3. PI for Zoonotic Disease should explore the possibilities of interaction between the university and Rajasthan University of Health Sciences and Principals of Medical College etc through Hon'ble Vice Chancellor RAJUVAS.

**(Action: PI Zoonotic Disease Project)**

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4. Project Incharge of Revolving Fund project Dr Balwant Meshram should involve Co-PI of different campuses mainly Bikaner and Jaipur for multi location of this actively as well as plastination of anatomical parts.

**(Action: PI)**

5. Dr S K Sharma Officer Incharge LRS Vallabh Nagar would find the possibility of up scaling of revolving fund project on ORS to other campuses.

**(Action: PI)**

In the end Hon'ble Vice Chancellor requested the members of Research Council outside RAJUVAS to express their views for university betterment.

Sh. Mohan Lal Gorchhia expressed that university is doing good work for animal keepers. He said that Ketosis in cattle is very common and causing great economic loss to farmers. Hon'ble Vice Chancellor advised that Head of Veterinary Medicine should make a package of practice for prevention of Ketosis and subsequent losses to milk production and Directorate of Extension Education would educate the farmers about such package of practice in training and exhibitions through KVK and VUTRC.

**(Action: Head Vety. Medicine, CVAS Bikaner, DEE, I/C KVK and VUTRCs)**

Dr. Mahesh Sharma, Managing Director RCDF URMUL also appreciated university efforts to conserve indigenous dairy cattle breeds of Rajasthan. He said that while establishing a new semen station through RKVY and ICAR inputs from Bassi and Narva stations operated by Govt. of Rajasthan may be considered. It is suggested that a visit to best semen station of Punjab be made before designing the Semen Station of this university. He also requested to explore possibility of coordination between URMUL and RAJUVAS towards indigenous cattle milk and milk products.

Dr S C Mehta expressed his congratulation for the award in E-Governance to the university and excellent organization of conference by Dr Sanjita Sharma where Hon'ble Governor and Deputy Director General ICAR also participated beside other VIPs. He suggested that while selecting bulls for Artificial Insemination selection differential may be considered for continuous progress, research papers be published in Journals with high scoring. Hon'ble Vice Chancellor informed the member that university has decided to provide a grant for publications published in journal with NAAS rating of the 8 and above.

Dr Sumant Vyas Principal Scientist NRC on Camel said that at semen station all efforts be made to follow the guidelines of Dept. of Animal Husbandry and Dairying Govt. of India. University may think of E-marketing for small ruminants.

Dr Virendra Netra Deputy Director from Animal Husbandry Department and Dr P S Shekhawat Director Research SKRAU also appreciated the efforts made by the university for upliftment of Livestock sector in the state. Dr Netra informed the house that Animal Husbandry Department is also making efforts for indigenous breeds improvement through AI. PPR and FMD vaccination programme has also been taken by department at mass level. Dr P S Shekhawat suggested that farm land may be divided into blocks for proper organic certification of the land and products.

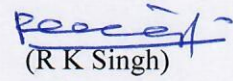
Mr Ajit Singh Registrar RAJUVAS expressed his views that university is progressing ahead through appropriate livestock research and he said that my administrative

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experience is available for all the Officer Incharges for liaisoning with administrative authorities in the Districts and State of Rajasthan.

In the end the Director Research extended a vote of thanks to chair, other dignitaries faculty members and others present in the meeting.

  
(R K Singh)

Member Secretary &  
Director Research



List of participants in Research Council meeting held on 14.02.2020 at 10:30 AM in the Vice Chancellor's Secretariat RAJUVAS Bikaner.

S No	Name of Officers	Post
1.	Prof (Dr) Vishnu Sharma	Hon'ble Vice Chancellor RAJUVAS- In Chair
2.	Sh Ajeet Singh Rajawat	Registrar RAJUVAS Bikaner
3.	Dr S C Mehta	Officer Incharge ICAR-NRCE Bikaner
4.	Dr Sumant Vyas	Principal Scientist NRC on Camel Bikaner
5.	Dr M K Sharma	MD URMUL Bikaner
6.	Dr Virendra Netra	Representative of Director Animal Husbandry Deptt. Jaipur
7.	Dr P S Shekhawat	Director Research SKRAU Bikaner
8.	Sh Mohan Lal Gorchhia	Progressive Livestock Breeders Nokha Bikaner
9.	Sh Naveen Tanwar	Progressive Livestock Breeders Bikaner
10.	Prof. (Dr) R K Dhuria	OSD to Vice Chancellor & HOD Animal Nutrition RAJUVAS
11.	Sh. Govind Singh	OSD to Vice Chancellor RAJUVAS Bikaner
12.	Prof. (Dr) Rakesh Rao	Dean & Chairman of Faculty CVAS Bikaner
13.	Prof. (Dr) G C Gahlot	Dean PGIVER Jaipur
14.	Prof. (Dr) S C Goswami	Dean Students Welfare RAJUVAS Bikaner
15.	Prof. (Dr) A A Gauri	Director Extension Education RAJUVAS Bikaner
16.	Prof. (Dr) J S Mehta	Director Clinic RAJUVAS Bikaner
17.	Dr Anju Chahar	Director PME RAJUVAS Bikaner
18.	Er M Ram	Director Works (E O) RAJUVAS Bikaner
19.	Prof. (Dr) Hemant Dadhich	Prof. Vety. Pathology CVAS Bikaner
20.	Prof. (Dr) A P Singh	HOD, Vety. Medicine & PI CEVPAM Bikaner
21.	Prof. (Dr) S Maherchandani	PI Bioinformatics & COE RAJUVAS Bikaner
22.	Dr Basant Bais	HOD LPT, CVAS Bikaner
23.	Prof. (Dr) B N Shringi	PI VBPRC Bikaner & Member Research Council
24.	Prof. (Dr) SBS Yadav	Professor Retd. DOR RAJUVAS Bikaner
25.	Dr U K Bissa	Sr Scientist Retd. DOR RAJUVAS Bikaner
26.	Prof. (Dr) R K Nagda	Officer Incharge LRS Bojunda & PI AICRP on Sirohi Goat
27.	Dr S K Sharma	Officer Incharge LRS Vallabhnagar
28.	Prof. (Dr) Urmila Pannu	PI CEUSTAS Bikaner
29.	Dr Sunita Rani	HOD Pathology, CVAS Bikaner
30.	Dr Meenaxi Sareen	HOD Biochemistry, CVAS Bikaner
31.	Dr Vijay Kumar	HOD LPM, CVAS Bikaner
32.	Dr Praveen Bishnoi	HOD Vety. Surgery and Radiology & PI CDMTA & DIMSCA
33.	Dr Sanjeev Joshi	HOD Anatomy, CVAS Bikaner
34.	Dr R S Pal	Officer Incharge LRS Chandan
35.	Dr K S Nehra	Officer Incharge LRS Nohar
36.	Dr Virendra Kumar	Officer Incharge LRS Kodamdesar
37.	Dr N S Rathore	Officer Incharge LRS Beechwal
38.	Dr Vijay Kumar	Officer Incharge LRS Bikaner & PI COAPT
39.	Dr Lokesh Gautam	Officer Incharge LRS Dag
40.	Dr D S Meena	Officer Incharge Goat Breeding Farm Dholpur & PI CDSRZ
41.	Dr Sitaram Gupta	PI Sahiwal Cattle Breeding Farm Kodamdesar
42.	Dr Ashok Dangi	PI Engineering & Technology Centre Bikaner
43.	Dr Rajani Joshi	PI ABMWDTC Bikaner
44.	Dr Taruna Bhati	PI CSWMH Bikaner
45.	Dr Dinesh Jain	PI LFRMTC Bikaner
46.	Sh Mahesh Kulhari	Deputy Comptroller RAJUVAS Bikaner
47.	Dr M L Choudhary	PI Animal Biodiversity Bikaner
48.	Dr Mitesh Gaur	PI NPBI LRS Vallabhnagar

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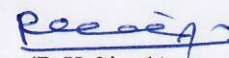
S No	Name of Officers	Post
49.	Dr Vishnu Kumar Vijay	PI MSSP Sonadi Vallabh Nagar
50.	Dr M L Gurjar	PI Characterization of Sojat Goat CVAS Navania
51.	Dr Devi Singh	Incharge Deptt. of Extension Education CVAS Bikaner
52.	D C Saxena	PRC RAJUVAS Bikaner
53.	Dr Deepak Kumar Sharma	PI RF Project Pilot Project on Alternate Energy Generation
54.	Dr Balwant Meshram	PI RF Project Preservation and Articulation of Bones
55.	Dr S K Jhirwal	Co- PI CDMTA Bikaner
56.	Dr A K Pandey	Co- PI VBPRC Bikaner
57.	Dr Prakash	Research Associate AICRP on Marwari Goat RAJUVAS Bikaner
58.	Sh M L Sharma	AAO-I Retd., Comptroller RAJUVAS Bikaner
59.	Prof. (Dr) R K Singh	Member Secretary & Director Research RAJUVAS Bikaner

RAJUVAS/DOR/Tech/2020/2912-2916

Dated: 22.02.2020

**Copy to:**

1. P.S. to Vice Chancellor RAJUVAS for kind perusal of Hon'ble Vice Chancellor Bikaner.
2. The Director, Directorate of Animal Husbandry, Pashu Dhan Bhawan, Jaipur
3. The Director, Directorate of Fisheries, Jaipur
4. The Managing Director RCDF Ltd., Jaipur
5. The Registrar RAJUVAS Bikaner
6. The Comptroller RAJUVAS Bikaner
7. Shri Mohan Lal Gorchhia, Village Panchu, Teh. Nokha, Bikaner
8. Shri Naveen Tanwar, A-125, Sadulganj, Bikaner
9. The Director Research S K Raj. Agriculture University Bikaner
10. The Dean CVAS Bikaner/ Navania, PGIVER Jaipur
11. The Dean PGS/ Students Welfare, RAJUVAS Bikaner
12. Director Research/ Extension Education/ Clinics/ Works/ PME RAJUVAS Bikaner
13. Controller of Examinations RAJUVAS Bikaner
14. OSD to Vice Chancellor RAJUVAS Bikaner
15. Principal Investigators/ HODs/ Officer Incharges LRSs.....
16. Meeting Section, RAJUVAS Bikaner
17. Technical Section Directorate of Research RAJUVAS Bikaner

  
(R K Singh)

Member Secretary &  
Director Research



## **Objectives of the State Plan Centres**

### **1. Centre for Ethno Veterinary Practice and Alternative Medicine:**

- To arrive at low cost alternative to allopathic treatment.
- 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 their components having therapeutic properties and validation of therapeutic properties through animal experimentation or clinical trials in veterinary hospitals or field.
- The establishment and quantification of medical properties of Ethno-Veterinary Medicines in the laboratory and field trials for confirmation of laboratory results.
- Development of protocols and formulations for use of these Ethno-Veterinary Medicines as well as practices as therapeutic agents.
- Development of ready to use form of Ethno-Veterinary drugs in extract form or otherwise as prophylactic/Therapeutic/ Supplementary agent by clinicians and or livestock owners.

### **2. Livestock Feed Resources Management Technology Centre:**

- Analysis and interpretation of feed resource availability so as to derive strategy for optimum use of available feed resource.
- The identification of potential non conventional feed resource and exploration of the possibilities of their utilization at optimum level in animal diet by animal experimentation and validation.
- Formulation of least cost economic rations for various categories of animals in respect with production and physiological stage of life.
- To derive and develop area specific feeding strategy for various categories of animals in different regions of state.
- Development and refinement of feed technologies to improve efficiency of feed utilization particularly low quality crop residues.

### **3. Engineering and Technology Centre for Animal Science:**

- To identify the areas which need mechanization for wellbeing of animal husbandry and for benefit of livestock owners.
- To undertake basic and applied research in association with engineering in the livestock sector covering production, processing, economics and management.
- To undertake the development of dairy farming systems for different agro climatic zone and demonstration of models for transfer of technology.
- To organize and conduct programmes at UG and PG levels in various branches of Veterinary and Animal Sciences.
- To organize short-term specialized training programmes and vocational courses.
- To collaborate with national and International agencies for livestock research and development.

### **4. Centre for Conservation of Animal Biodiversity:**

- Conservation of selected threatened species and to imitate and execute their reintroduction as well restocking.
- To impart education and training for communities, NGO's, wild life workers and officers of the departments.





- To initiate research activities in respect with conservation of animal biodiversity of the state.
- To take up activities like in situ conservation, species recovery efforts etc.
- To develop and use tools to cost-effectively gather vast quantum of genetic, physiological and economical data and its extrapolation using creative way of integration and analysis of this information.
- To develop biodiversity inventories and natural resource-use assessment.
- To determine distribution of species threatened by one or more a biotic and biotic disturbances.
- The generation of data to assess the cause of population decline and the magnitude of problems as well as to develop mitigation strategies as joint effort with other scientists working at centre.
- To execute innovative and applied research to foster public awareness of the challenges facing as well as to build capacity for conservation of biodiversity in the state.

**5. Centre for Organic Animal Product Technology Bikaner:**

- To develop the centre as knowledge centre for organic animal production.
- To develop modules of organic animal production for different animal products.
- To impart trainings to farmers, industries 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.

**6. Centre for Disaster Management Technology for Animals:**

- To develop the centre as vision to be recognized as a vibrant centre of excellence for knowledge and capacity building on disaster management.
- To initiate and take up research in the field of disaster management so as to develop strategies for adoption to protect and manage animals in the event of disaster.
- Development of package of practices and training modules for officer and staff to be deputed to deal with disaster management specific to the activities of target groups.
- Impart trainings on disaster management specific to target groups.
- To prepare policy adviser for state Govt. for system development and expertise promotion for effective disaster preparedness and mitigation in the state.
- To augment and strengthen facilities for the state in respect with disaster mitigation and management through resources development.
- To coordinate the establishment of a data base for rapid dissemination of information and knowledge.

**7. Centre for Excellence for Use of Space Based Technology in Animal Science**

- To use the information and data obtained from space based technology in prevention/mitigation, preparedness, response and recovery in the event of disaster.
- To use the information obtained from space based technology system for welfare and improvement of animal husbandry sector of the state.
- To develop and design strategies for cost effective solution to animal husbandry problems of state based on information gathered through space based technology and its critical analysis as well as extrapolation.
- To initiate and conduct research and development work for arriving at strategies for conservation of threatened species and improvement in production as well as productivity of

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livestock sector of the state using latest large geographical area covering space based technology.

- Use of field and laboratory techniques that enable us to non-invasively acquire essential biological information from geographical area.
- Assessment, documentation and status reporting of domestic animal genetic resources.
- Coordinate and implement targeted interventions for prioritized domestic breeds.
- To promote regional and international linkages for technology transfer as well as effective management of animal genetic resources.

**8. Centre for Studies on Wild Life Management and Health:**

- To produce well trained and skilled persons well equipped with knowledge of dynamics of wild life populations and ecosystem health.
- Capacity building in respect with management of wild life resources in a healthy and sustainable manner.
- Efforts for enhancement of productivity of ecosystem in current scenario and for future in respect with wild life status of state.
- Development of wild life health programmes for the welfare and promotion of wild life in consultation with ecologist, conservation professionals and wild life managers.
- To carryout applied wild life research integrating the disciplines of Veterinary Science and wild life management.
- Organization of trainings and workshops in the field of wild life health management, wild life restraint techniques, wild life damage control etc.
- Development of techniques and or packages of practices to preserve, restore and sustain the health of wild life and ecosystem they inhabit.

**9. Animal Bio Medical Waste Disposal Technology Centre:**

- To develop the centre as knowledge centre in biomedical waste disposal technology
- 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.
- To test and develop different methods of animal bio medical waste disposal to improve status of health and to prevent hazards.

**10. Vaccinology and Biological Products Research Centre RAJUVAS Bikaner:**

- Evaluation of the effectiveness of commonly used vaccine candidates.
- Analyse new generation veterinary vaccines for their immunogenic potential.
- To devise strategies in the field of DIV A (differentiation of infected and vaccinated animals).
- To maintain a stock of bacterial type cultures for use in veterinary biological.
- Human resource development for use and maintenance of veterinary biological.
- To develop models of estimation of Vaccine Impact in animal population of Rajasthan.
- To formulate policy, communication and ethical issues related to vaccine production and their application.

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