

Minutes of the First Meeting  
Of the  
**Research Council**  
held on 24<sup>th</sup> May, 2011



**DIRECTORATE OF RESEARCH**  
RAJASTHAN UNIVERSITY OF VETERINARY & ANIMAL SCIENCES,  
Bijay Bhawan Palace Complex,  
Near Deendayal Upadhyay Circle,  
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# **Minutes of the First Meeting**

of

## **Research Council**

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The first meeting of the Research Council of RAJUVAS, Bikaner was held on 24<sup>th</sup> May, 2011 at 9.00 am in the Conference Hall of the Department of Animal Breeding and Genetics, CVAS, RAJUVAS, Bikaner under the chairmanship of Hon'ble Vice-Chancellor. List of participants is provided in Annexure I.

The Director Research, Member Secretary of the Research Council welcomed Hon'ble Vice-Chancellor and Chairman, official members of Government of Rajasthan, university officials and nominated members/livestock breeders/farmers who participated in the 1<sup>st</sup> Research Council Meeting of RAJUVAS, Bikaner. Earlier the research report of Veterinary and Animal Science faculty was considered in the last Research Advisory Committee meeting of the SKRAU and most of the time the Director Research, Veterinary and Animal Sciences used to play a role of extending vote of thanks in the meeting. The Director Research informed the house about the agenda to be considered in the meeting and requested Hon'ble Vice Chancellor to initiate proceedings of the meeting. Hon'ble Vice-Chancellor in his opening remarks emphasized that the faculty of veterinary and animal science in the university is spread all over Rajasthan and has got capabilities to meet out the research needs in the discipline of VAS.

He stressed the need of new research proposals for the 12<sup>th</sup> Plan and increasing the research capabilities of the university. He also informed the house about the new research projects under RKVY and DST for which government has released funds. For effective functioning of the research projects Hon'ble Vice-Chancellor informed that the university has taken decision to give full drawing and disbursing powers to the concerned PIs for which administrative sanctions and arrangements will be made by the month of June 2011. He also informed that financial monitoring and management will be governed by software. Every month finance department of Government of Rajasthan needs an online financial reporting therefore, funds especially under RKVY is utilized timely so that UCs could be submitted in time. New research proposals to DST have been submitted for infrastructural development and capacity building. There is scope of establishing some centres of excellence under niche area and few mega projects may be sanctioned by ICAR. Such proposals have been invited by Prof. S.S. Chahal, Hon'ble Vice-Chancellor, MPUAT, Udaipur from this University from all the unit incharges, who are required to prepare and send proposal from RAJUVAS on or before the last date i.e. 10<sup>th</sup> June, 2011. New areas such as organic livestock production and processing, packaging and marketing are the areas where RAJUVAS can make significant efforts and can jot down the dreams. If our researchers have the proposals ready, then the same can be submitted as and when opportunity arises. Hon'ble Vice Chancellor also opined that though every individual is carrying out multiple responsibilities but such situation should be considered as a challenge and pleasure for survival and growth of this university. This can be done with the hard work by the faculty members of the university. The BOM has also passed resolution for considering short term research projects of around Rs.1 lakh. This limit may be extended depending up on the very nature of the project, required expertise, infrastructure and equipments. Such short term project should be aimed with immediate application of the results in the field. The ICAR is also considering initiation of research projects of Network/AICRP/NAIP nature. One such project on



Diagnostic Imaging in Veterinary practice for surgical and other treatments of the various species of livestock is under process. Hon'ble Vice-Chancellor also stressed to think in new areas such as desert animal biodiversity incorporating breeding management, nutrition and health with 100% financial support from ICAR and other agencies for manpower, infrastructure and other aspects. Mega projects for marker assisted selection in indigenous breeds of livestock and flowcytometric separation of sperms etc. can also be taken up. Hon'ble Vice-Chancellor wished a bright future to each and every member of the council and motivated every one for thinking on "research for development" instead of conventional approach of "research and development". Subsequently, the agenda of the meeting were taken one by one.

### **AI-01/RC-01 : Review of progress of on going research projects**

The reporting of progress of ongoing research projects was done through presentation by respective PI/unit incharges in the following order:

1. State Level Breed Confirmation (DNA Finger Printing) Centre: Dr. S.K. Kashyap presented the progress report of the project which was found satisfactory. However, Hon'ble Vice-Chancellor asked for the time needed to make the DNA Finger Prints of indigenous breeds. Dr. Kashyap explained that they have tested 8 micro satellite markers for identification of breeds and initially saw that some markers do not show presence in Rathi cattle and that can be useful for finger printing of Rathi cattle. Efforts are going on to test these markers on other breeds too. Samples have been collected and work will be done this year. It was submitted by Dr. Kashyap that for fast progress fully automatic system for isolation, amplification and sequencing of DNA is required as per practice world over. Hon'ble Vice-Chancellor suggested that though there is little scope of having such facilities under the current project but we can formulate certain other project under RKVY and for other species of livestock or other breeds of cattle so that under such proposal new facilities can be proposed and procured. Among such projects, genomic selection of sheep and goat may be one area of submitting the project keeping in mind the importance of these species in Rajasthan. Dr. Kashyap also presented report of two other research projects funded by the external support or by a private agency and progress of all these projects was found satisfactory.
2. Increasing nutrient availability from roughage based ration through enhancing rumen efficiency or reducing enteric methane production by use of secondary plant metabolite : This project is sponsored under NFBSRA and the progress report was presented by Dr. Tribhuvan Sharma and the reports of the project was found satisfactory. The medicinal herbs Garlic (*Allium sativum*) and Bhiringraj (*Eclipta alba*) were subjected to *in vitro* and *in vivo* studies to ascertain its effect on efficiency of feed utilization. Progress of this project was found satisfactory.
3. Establishment of Rathi cattle breeding farm at CVAS, Bikaner (RKVY): Dr. R.K. Joshi, Officer Incharge of the project submitted the progress of the research work. While presenting budget outlay and expenditure Dr. Joshi informed the house that budget should be enhanced due to increase in price of different contractual workers. He also stressed the need for construction of sheds for accommodation of herd strength. The house is satisfied with the progress made so far in the project. However, it was

- opined by the Vice-Chancellor that the cross bred animals should not be considered as purebred herd of Rathi cattle. Such animals be used as recipients for MOET project. It should also be noted that Rathi herd at LRS, Nohar be also considered a part of this project and expenditure, breeding and other objectives be achieved considering the same in view.
4. Establishment of Kankrej cattle breeding farm at Kodamdesar (RKVY): Dr. V.K. Chaudhary, Officer Incharge of the project presented progress report. Dr. Chaudhary informed the house that information is being collected from the native area of Kankrej tract with respect to number, sex, age, production and reproduction performance in order to prepare a basal herd of Kankrej cattle. Dr. Chaudhary informed that animals could not be purchased in this financial year due to non-release of grant for maintenance of animals up to the mid of March, 2011. However, now, the procurement has been speed up and 50 animals have already been added.
  5. Enhancing mutton productivity in Marwari Sheep under Arid Condition: Dr. R.K. Singh, Officer Incharge, LRS, Beechwal presented the report of LRS, Beechwal. The progress of sheep research unit and seed production programme under revolving fund was presented. The O/I requested to include LRS, Beechwal as unit of RKVY project on Tharparkar cattle. Hon'ble Vice-Chancellor directed to undertake activities of integrated farming and develop the station as a demonstration unit. It was also desired that the objectives and mandate of LRS, Beechwal as well as other LRSs be detailed out/redefined.
  6. MOET project on ONBS Rathi Herd at Deptt.of Gynaecology: While presenting the progress report Dr. G.N. Purohit, PI of the project informed that a protocol has been developed for super ovulation of elite donor cows and embryo transfer to recipient and additional embryos are being frozen for subsequent transfer. Dr. Purohit has reported the delay in release of funds for the financial year 2010-11 and 2011-12 from RLDB, Jaipur and lack of availability of sufficient number of donor and recipient cows. Hon'ble Vice-Chancellor desired that it is a prestigious project and the target achievement should be based upon birth of ET calves not only in the institutional herd but also in terms of herd of Gaushalas etc. The ET is a standard techniques and pregnancies through ET and subsequently the birth of ET calves should be expected with all out efforts.
  7. AICRP on Marwari Goat Improvement: Dr. G.C. Gahlot PI of the project presented the progress report of the project. While presenting achievements of last five years Dr. Gahlot informed the house that 150 elite bucks have been distributed to the registered farmers. He also informed that there is an improvement of birth weight of kids at birth and subsequent stages of growth and reduction in mortality rates in the framers' flock. So far scientists are successful in increasing willingness among farmers to get them registered, improve elite sires and adopting scientific management of flocks. The project has shown its socio-economic impact towards achieving some of its major objectives. Present allocation of funds as per the mandate is not sufficient. It was desired by Hon'ble Vice-Chancellor that expenditure of such projects be restricted across different sub heads as per sanction by the ICAR. Posting of staff, paid salary as well as contractual staff be made keeping these directives in view.



8. Evaluation and Genetic Improvement of Magra Sheep for Carpet Wool Production in Farmers' Flock: Dr. C.K. Murdia, PI presented the progress report on the table of the house. Dr. Murdia informed the house that field centres in the Magra sheep tract have been established and health coverage is being given to registered animals. Elite males are distributed amongst the registered breeders. Dr. Murdia stressed the need to develop Open Nucleus Breeding Scheme by having *ex-situ* and *in-situ* conservation breeding plan in future which was appreciated by the house.
9. Sheep and Wool Improvement Scheme (SWIS): Dr. S.C. Goswami, PI of the project informed the house that survey study of 1,97,199 sheep of Magra and Bikaneri Chokla breed was conducted in Lunkaransar and Bikaner Tehsil. The photo identity card of selected and registered breeders have been prepared as proposed. The database on husbandry status at breeders' level has been developed and farmers have been given health inputs and advised for conserving and pure breeding of Bikaneri Chokla sheep.  
  
Hon'ble Vice-Chancellor desired that database generated through surveying be analyzed and conclusions be drawn to showcase socioeconomic status as well as status of small ruminant husbandry in this area.
10. Capacity building for animal feed technology, quality and productivity enhancement at PGE RCLHP, Jaipur: Dr. Vishnu Sharma, PI of the project briefed the house about the project. Dr. Sharma informed that funds have been transferred to the university in March, 2011. The work has been initiated now.
11. APEDA project "Pre feasibility study on livestock for export from Rajasthan" at PGE RCLHP, Jaipur: Dr. Vishnu Sharma informed the house that the said project has been completed and the report of the same has been accepted by the sanctioning agency. Hon'ble VC was of the view that the University should publish the contents.
12. DST project "Monitoring of nutritional value and pesticide residues in milk of different livestock species along with common animal feed and fodder at Jaipur region of Rajasthan" at PGE RCLHP, Jaipur: Dr.(Mrs.) Sanjita Sharma informed the house that funds for the project have been transferred to the university. The work on the project has been initiated.
13. Area specific mineral mixture supplementation for enhancing the production, reproduction and health status of cattle and buffalo of the semi-arid eastern plain of Rajasthan" at PGE RCLHP, Jaipur: The PI Dr.(Mrs.) Sheela Chaudhary did not attend the meeting. The DR informed that this is a new project sanctioned under RKVY, the funds of which were obtained only in the last week of March, 2011. The project work will be initiated soon.
14. AICRP on Goat improvement "Genetic improvement of Sirohi goats in Farmers' flocks" at LRS, Vallabhnagar: Dr. R.K. Nagda, PI of the project informed about the progress made so far in the project. Dr. Nagda informed that genetic parameters for growth, lactation and reproductive

traits were estimated and improvement in body weight at different ages has been observed. During the reporting period de-worming of 2118 animals was done. The report of this project is presented in workshops on review meeting of ICAR.

15. Mega Sheep Seed Project (Sonadi) at LRS, Vallabhnagar: Dr. R.K. Nagda, PI of the project informed the house that animals have been purchased and tagging have been done. In the field the major diseases observed in the registered animals were enteritis and pneumonia.
16. Network project on buffalo improvement at LRS, Vallabhnagar: Report of this project was presented by Dr. Mitesh Gaur. The research work on Surti buffalo has been going on at Livestock Research Station, Vallabhnagar which holds the distinction of being the only one with native tract in Rajasthan. The concrete efforts of last ten years have started bringing fruits in terms of a breeding project as evident from the fact that the figure of daughters completing first lactation during 2010-11 exceeds the combined figure of the previous nine years, for the same, implying, in turn, of quicker and more accurate sire-evaluation in coming years.
17. Evaluation, improvement and conservation of Tharparkar cattle germ plasm at LRS, Chandan: Conservation work of Tharparkar cattle going on at the farm. Improved Tharparkar cattle germ plasm is being distributed to the farmers and developmental agencies. The report of the project was presented by Dr. R.S. Pal. The performance of the herd was found satisfactory except that the Age at First Calving was high. It was desired by the house that heifers be managed intensively to take care of AFC. Other objectives of RKVY project should also be achieved as per the project proposals.
18. Establishment of Tharparkar cattle breeding farm (RKVY) at LRS, Chandan: The herd of Tharparkar cattle maintained at LRS, Chandan has been transformed into RKVY herd. The shed and dairy units have been renovated through modernization and new civil works. Lately sanctioned funds from the Government has been transformed to University for establishing the herd as per proposals.
19. Student based research projects: Abstract of the students' research have been placed on the table of the house. It is suggested that short term research project at each department through University funding will be initiated in which the Post Graduate or Doctoral research may also be involved. It was proposed that Director Research will invite the research project proposals from unit incharges.
20. Evaluation, improvement and conservation of Rathi cattle at LRS, Nohar: Dr. Rakesh Rao, Officer Incharge presented the progress and development of the farm. Apart from research work the farm has generated revenue from contractual farming. The performance of herd was found satisfactory. It was desired that efforts be made by the Officer Incharge to start AHDP course as well as a goat unit to make use of the resources available. The proposals for financial requirements be sent to Comptroller with justification.



The council rejected all the constraints mentioned by the respective PIs with the remarks that progress is to be achieved with the available resources including financial, human resource and infrastructure. However, on the whole the council appreciated the progress in all the projects, with specific comments as mentioned above.

**AI-02/RC-01 : Proposal for creating a Livestock Research Station at Kodamdesar Farm**

Looking to the potentials to get impetus in the research work a proposal came up for creation of new Livestock Research Station, Kodamdesar to strengthen research work at RAJUVAS. The house was informed that extension of canal for drinking water supply in Kodamdesar and surrounding villages, a water reservoir and water works projects are under progress by the Deptt. of PHED, Government of Rajasthan which will be a boon for the maintenance of experimental animals, pastures, grass land and fodder production. It is, therefore, suggested that the said farm should be upgraded to Livestock Research Station so that new research projects can come up and funds for research and development work will be received from Government of Rajasthan and other funding agencies.

It was resolved that Kodamdesar farm should be declared as the Livestock Research Station, Kodamdesar.

**AI-03/RC-01 : Provision of new vehicles at Livestock Research Station(s) functioning under the Directorate of Research, RAJUVAS, Bikaner**

Livestock Research Station(s) functioning under the Directorate of Research have vast area under their possession. Besides on-going research projects, these stations have been sanctioned new research projects under RKVY. Post Graduate Programme has already been started at PGE RCLHP, Jaipur and Animal Husbandry Diploma Programme is going to be started at LRS, Chandan and Nohar. The LRS(s) of Directorate of Research are the pioneer in generating revenue through milk and agricultural production. The station(s) have vehicles in very old condition and it will be not feasible to operate these vehicles from the economic point of view. It is also difficult to manage such vast farm area and proper liaisoning with the local administration and official work without a vehicle. The house was informed about all these difficulties faced by the Officer Incharges of LRS(s) and suggested for acquiring new vehicles for these stations

The house was of the opinion that looking to the workload at LRS(s) procurement of new vehicles is necessary.

**AI-04/RC-01 : Utilization of land and resources at Livestock Research Station(s)**

Directorate of Research for Veterinary and Animal Science, Bikaner governs the research activities at five Livestock Research Stations located at Chandan, Nohar, Beechwal, Navania and Bikaner which have vast land area under their possession. Looking to the land resources and infrastructure available at these stations it is desired to use these resources in a more judicious manner for implementation of university policies in a more pragmatic manner and generate more revenue for contributing to the university fund.

It was resolved that looking to the sanction of new projects at these stations and initiation of academic programmes a plan should be chalked out involving concerned units/departments.

**AI-05/RC-01 : Procedures of expenditure and utilization of funds by PI(s)/Officer Incharges**

The university forwarded a helping hand by issuing orders of delegating financial powers for their project/station which will be helpful in smooth conduct of research work. A proposal for training of PI(s) and subordinate staff pertaining to financial works was taken up and discussed in the deliberations.

It was resolved that the proposal of training and guidance be undertaken by the Comptroller, RAJUVAS, Bikaner.

**AI-06/RC-01 : Any other item with the permission of the Chair**

**AI-06 (S-1)/RC-01** :A supplementary agenda pertaining to short term research project at each department through University funding in which the Post Graduate or Doctoral research may also be involved came up for discussion.

It was resolved that Director Research will invite the research project proposals from unit incharges and all such proposal would be screened through a committee and top 10 to 12 projects may be considered for implementation.

The Hon'ble Vice-Chancellor and Chairman of the committee was pleased with the progress made so far in the on-going research projects and emphasized the need for more hard work to establish trust and confidence on the line departments in general and the livestock owners/breeders of Rajasthan in particular.

The meeting ended with votes of thanks to the Chair



**(S.B.S. Yadav)**  
**Director Research &**  
**Member Secretary**

Dated: 28.05.2011



## List of participants

1. Prof. A.K. Gahlot, Hon'ble Vice-Chancellor - In the Chair
2. Dr. D.K. Khatri, Dy. Dir., Department of Animal Husbandry-Representing the Director of the Department of Animal Husbandry, GOR, Jaipur
3. Dr. R.N. Kachwaha, Dean Students' Welfare and Head, Deptt.of LPT, CVAS, Bikaner
4. Dr. G.S. Manohar, Dean PGS & Head. Deptt.of Parasitology, CVAS, Bikaner
5. Dr. R.K. Nagda, Dean, CVAS, Navania, Vallabhnagar
6. Dr. C.K. Murdia, Director Extn., RAJUVAS, Bikaner
7. Dr. T. Sharma, Director PME, RAJUVAS, Bikaner
8. Dr. S.K. Kashyap, Head. Deptt.of Microbiology, CVAS, Bikaner
9. Dr. T.K. Gahlot, Head, Deptt.of Surgery, CVAS, Bikaner
10. Dr. P.D. Swami, Head, Deptt.of Extn., CVAS, Bikaner
11. Dr. Anil Ahuja, Head, Deptt.of Clinical Medicine, CVAS, Bikaner
12. Dr. J.S. Mehta, Head, Deptt.of Gynaecology, CVAS, Bikaner
13. Dr. S.C. Goswami, Head, Deptt.of LPM, CVAS, Bikaner
14. Dr. (Mrs.) Nalini Kataria, Head, Deptt. of Physiology, CVAS, Bikaner
15. Dr. Rakeh Rao, Officer Incharge, LRS, Nohar and Head, Dept. of Public Health, CVAS, Bikaner
16. Dr. Rakesh Mathur, Head, Deptt.of Anatomy, CVAS, Bikaner
17. Dr. Hemant Dadhich, Head, Deptt. of Pathology, CVAS, Bikaner
18. Dr. P.K. Mehrotra, Officer Incharge, PGE RCLHP, Jaipur
19. Dr. R.K. Singh, Officer Incharge, LRS, Beechwal, Bikaner
20. Dr. R.S. Pal, Officer Incharge, LRS, Chandan & PI, RKVY, Tharparkar Cattle
21. Dr. C.S. Vaishnav, Officer Incharge, LRS, Vallabhnagar
22. Dr. A.K. Kataria, Officer Incharge, Apex Centre, CVAS, Bikaner
23. Dr. R.K. Joshi, Officer Incharge, LRS, Bikaner & PI, RKVY, Rathi Cattle
24. Dr. G.C. Gahlot, PI, AICRP on Goat, CVAS, Bikaner
25. Dr. G.N. Purohit, PI, MOET, CVAS, Bikaner
26. Dr. (Mrs.) Sanjita Sharma, PI, DST Project, PGE RCLHP, Jaipur
27. Dr. Vishnu Sharma, PI, Capacity Building (RKVY), PGE RCLHP, Jaipur
28. Dr. V.K. Chaudhary, PI, RKVY Kankrej Cattle, CVAS, Bikaner
29. Dr. Mitesh Gaur, PI, NPBI, LRS, Vallabhnagar
30. Dr. B.K. Beniwal, COE and Co-ordinator, AHDP, RAJUVAS, Bikaner
31. Dr. Ravi S. Chaudhary, Assoc.Prof. & Head, LPM, PGE RCLHP, Jaipur
32. Dr. A.A. Gauri, Assoc.Prof., DOR(VAS), Bikaner - Invitee
33. Sh. Agya Ram Singh, Progressive Livestock Breeder
34. Sh. Srigopal Upadhyay, Progressive Livestock Breeder
35. Sh. S.S. Pawar, Registrar, RAJUVAS, Bikaner - Invitee
36. Sh. Y.K. Singh, Comptroller, RAJUVAS, Bikaner - Invitee
37. Dr. S.B.S. Yadav, Director Research, RAJUVAS, Bikaner - Member Secretary