

Proceedings of
1st
RESEARCH COUNCIL MEETING
6th November, 2017



DIRECTORATE OF RESEARCH
Bihar Animal Sciences University, Patna

CONTENT

| Sl. No. | Particulars | Page No. |
|----------------|--|-----------------|
| 1. | Inaugural Session | 1 |
| 2. | Technical Session-I (Ongoing Research Projects) | 2-3 |
| 3. | Technical Session-II (Animal Health Group) | 4-5 |
| 4. | Technical Session-III (Animal Production Group) | 6 |
| 5. | Technical Session-III (Livestock Product Development & Marketing Group) | 7 |
| 6. | Plenary Session | 8 |

Inaugural Session

First Research Council Meeting (RCM) of Bihar Animal Sciences University was held on 6th November, 2017 in Conference Hall No. II of Bihar Veterinary College, Patna under the chairmanship of Dr. Rameshwar Singh, Vice- Chancellor, BASU with gracious presence of Dr. Inderjeet Singh, Director, CIRB, Hisar and Dr. N.S. Sharma, Controller of Examination, GADVASU, Ludhiana on this occasion as a nominated expert members. All the Deans, Directors, Registrar, Chairmen, HoDs and scientists of the university attended the programme. Dr. Chandramoni, Director Research, BASU welcomed and briefed about various research programme of the university. At present seven research projects funded by ICAR and DST are running in the different departments of university. Dr. Inderjeet Singh and Dr. N.S. Sharma critically evaluated and appreciated various research programmes presently running under the university. Hon'ble Vice- Chancellor appreciated the initiatives and research work presented by the scientists of different disciplines. There were three technical sessions of different research groups. Initially, seven ongoing research projects highlights were presented by Principal Investigators of the projects. Detailed discussion was held in the house regarding work done, further improvement, fund utilization, etc. and suggestions came from expert and faculty to strengthen its utility. Chairman also advised to work in the direction for development of a Centre of Mastitis at Bihar Veterinary College, Patna.

Hon'ble Vice- Chancellor informed the house that our university has made MoU with national institutes like IVRI, Izatnagar, NDRI, Karnal and ICAR-RCER, Patna for developing research activity in the university.

TECHNICAL SESSION - I (Ongoing Research Projects)

- ❖ Dr. Nirbhay Kumar presented the overview of Outreach Programme on “Monitoring of Drug Residues and Environmental Pollutants”. His work was appreciated by the chairman and suggested to follow standard practice of screening of large number of samples for final estimation in HPLC. Further suggestion was to increase the sample size and take the history regarding types of feed offered to dairy animals and other supplement used if any and is there any precaution taken by farmers while using antibiotics in dairy animals for better outcomes.

Action: Dr. Nirbhay Kumar

- ❖ Dr. Manoj Kumar presented the research highlight of All India Coordinated Research Projects for “Epidemiological Studies on Foot and Mouth Disease”. He collected large no. of samples from farmer’s door step/field condition and also took help of State Animal Husbandry Department and examined it in his laboratory for drawing any conclusion either positive or negative. Chairman asked to present detailed fund utilization status of the projects and suggested to use the fund effectively specially in TA head.

Action: Dr. Manoj Kumar

- ❖ Dr. Pankaj Kumar delivered the highlights of All India Coordinated Research Projects for “Animal Disease Monitoring and Surveillance”. Chairman was satisfied with his approach of collecting samples, proper utilization of funds allotted for said period and suggested to focus on future work plan.

In the meeting Dr. Pankaj Kumar, Assistant Professor, Veterinary Microbiology raised the issue of mastitis problems in dairy animals which creates heavy losses in livestock farmers and presently there is no any working centre available in Bihar to monitor it properly in all aspects. Chairman advised to frame a

proposal to develop a Centre of Mastitis where all facilities will be available at one stop solution.

Action: Dr. Pankaj Kumar

- ❖ Dr. Pallav Shekhar presented the detailed report of Experimental Learning Unit (Critical Care Unit). He had utilized the sanctioned amount to attain mandate of the programme and result was found satisfactory.

Action: Dr. Pallav Shekhar

- ❖ Dr. Gyan Dev Singh presented the highlights of Strengthening and Up-gradation of TVCC as an Experiential Learning Unit for Pet animals. Chairman was quite satisfied with the strengthening of TVCC through this project funds and increasing the no. of pet animal cases day-by-day. He had utilized the sanctioned amount and result was found satisfactory.

Action: Dr. Gyan Dev Singh

- ❖ Dr. Pankaj Kumar, Assistant Professor, AHE presented the progress report of Poultry Seed Project. He had achieved the defined annual target of chicks distribution to farmers. His work progress was appreciated by chairman and suggested to sale the eggs and also to think over regarding shifting demand based egg hatching, so, that overcrowding may be checked in farm.

Action: Dr. Pankaj Kumar

- ❖ Dr. Ajeet Kumar presented the current status of FIST Programme – 2016 funded by Department of Science & Technology. Chairman suggested, speeding up the purchase procedure for timely utilization of funds.

Action: Dr. Ajeet Kumar

TECHNICAL SESSION - II (Animal Health Group)

(Rapporteurs: Dr. Bipin Kumar & Dr. Anjay)

- ❖ Dr. Ramesh Tiwary presented a project proposal on studies on urohydropropulsion and tubecystostomy for surgical management of urolithiasis in goats. After thorough discussion on proposal in house it was suggested to delete group – C, from technical programme. Chairman agreed with the house suggestions and his proposal may be considered for approval under Institute fund.

Action: Dr. Ramesh Tiwary

- Dr. Ramesh Tiwary presented a second project proposal on bone marrow derived mesenchymal stem cells (BMNCs) for cell therapy in canine hip dysplasia. Chairman appreciated the topic and advised to prepare it as larger project for long term running and approved for submission in DBT/SERB or any external agency for funding.

Action: Dr. Ramesh Tiwary

- Dr. Anjay presented new proposal on study on prevalence and genetic diversity of methicillin resistance *Staphylococcus aureus* carried by animals and human handler in veterinary hospital. Chairman told that this is usual nature of work which is being done at laboratory, so, there is need to work for development of an advance centre for bacteriophages either self or any collaboration.

Action: Dr. Anjay

- Dr. Pallav Shekhar presented a proposal on radiographic and sonographic screening of cardiac, hepatic and urinogenital diseases of canine. Chairman advised that there is need to standardize the protocol and this proposal may be considered for approval under Institute fund.

Action: Dr. Pallav Shekhar

- Dr. Kaushal Kumar presented a research project on proliferation and apoptotic assessment of canine mammary tumour for early diagnosis. Detailed discussion was held on proposal and house suggested that to prepare larger project and submit under extramural funding to ICMR or any external agency for developing the cancer centre for animals.

Action: Dr. Kaushal Kumar

- Dr. Ajeet Kumar presented a proposal on bio-fabrication of gold nano particles and its anti proliferative effect in cell line. After thorough discussion in house chairman suggested to do inter-departmental collaboration with similar area of work. This proposal may be considered for approval under Institute fund.

Action: Dr. Ajeet Kumar

- Dr. Ankesh Kumar presented a project proposal on comparison and development of standard protocol of oestrous synchronization in anoestrous buffaloes. Detailed discussion was held in the house and members suggested to take the data of animals coming for treatment at TVCC. Chairman suggested to adopt one village for field study & do trial on more no. of buffaloes as well as take help of ultra-sonography if available. This proposal may be considered for approval under Institute fund.

Action: Dr. Ankesh Kumar

TECHNICAL SESSION - III **(Animal Production Group)**

(Rapporteurs: Dr. Pramod Kumar & Dr. Sanjay Kumar)

- Dr. Pankaj Kumar Singh presented a project proposal on formulation and evaluation of area specific mineral mixture on the performance of dairy cattle and buffaloes. Detailed discussion was held on the proposal and it was appreciated by the house regarding its importance in livestock farmers. Chairman advised that to elaborate work plan for all the district of Bihar, include all 4 zones and make collaboration with CIRB, Hisar for estimation and formulation of mineral mixture as well as take the field data of work done by NDDDB, ILRI in Bihar for future planning. However, project may be considered for approval to initiate the work for further target under Institute fund.

Action: Dr. Pankaj Kumar Singh

- Dr. Ravi Ranjan Kumar Sinha presented a research proposal on assessment of *Moringa oleifera* as a fodder. After thorough discussion on proposal in house chairman agreed that this proposal may be considered for approval under Institute fund.

Action: Dr. Ravi Ranjan Kumar Sinha

- Dr. Sushma Kumari presented a project proposal on value addition of chicken meat and its marketing. Detailed discussion was held in the house and members appreciated the proposal but maintaining the hygiene will be difficult due to lacking in facilities in the department. Chairman advised to prepare the proposal accordingly for the next meeting.

Action: Dr. Sushma Kumari

TECHNICAL SESSION - III

(Livestock Product Development & Marketing Group)

(Rapporteurs: Dr. Sanjeev Kumar & Dr. Awadhesh Kumar Jha)

- Dr. J. Badshah presented a research proposal on process standardization and optimization for shelf life enhancement of paneer from milk of Bihar origin. After thorough discussion in house chairman advised to limit your technical programme and go ahead with thermal sterilization process and this proposal may be considered for approval under Institute fund.

Action: Dr. J. Badshah

- Dr. Sonia Kumari presented a project on study on process optimization and feasibility to enhance shelf life of neera based whey energy drink. Chairman appreciated the proposal and suggested that paneer whey should be bland and then whey and neera should be mixed and tested for preparation of whey neera based drink. Detailed discussion was held on proposal and house advised to do preliminary survey study on neera processing and then formulate a proposal in collaboration with COMFED, Patna for next meeting.

Action: Dr. Sonia Kumari

- Dr. Rakesh Kumar presented a new proposal on development of symbiotic food formulations utilizing locally available fruits and assessment of economic feasibility. After discussion on proposal in the house chairman suggested revising the whole proposal and carefully deciding about the issues related with availability and supply of strain which is primary requirement of the project and then present in next meeting.

Action: Dr. Rakesh Kumar

- Dr. Binita Rani presented a project proposal on determination of adulterants in paneer available in market. Chairman advised to revise the topic, objectives and define the target of sampling after preliminary survey work and then present in next meeting.

Action: Dr. Binita Rani

Plenary Session

Dr. N.S. Sharma appreciated various research activities of the newly established university. He congratulated Hon'ble Vice- Chancellor and Director Research for quality research work carried out in the university by young and energetic scientists. He was happy to know the facilities available at TVCC department under EL projects and turning up large number of cases.

Dr. Inderjeet Singh expressed his great satisfaction about research work going on in various department and new proposal presented by the scientists of Bihar Animal Sciences University. He opined that young scientists of the university should be trained in reputed laboratories of countries or international forum for achieving excellence. He further appreciated the effort of Hon'ble Vice- Chancellor for such programme and suggested that research work should be planned with due emphasis of livestock farmers of Bihar.

Hon'ble Vice- Chancellor stressed about long term research project formulation for improvement of livestock farmers livelihood. He advised the scientists to do participatory research with livestock farmers under field condition for doubling his income. Hon'ble Vice- Chancellor congratulated all young scientists and Director Research for nice presentation during the council meeting. He assured that the university will provide all necessary resources for achieving excellence in researchable areas.

The research council meeting was ended with formal vote of thanks by Dr. Kaushalendra Kumar, Assistant Director Research to chair and all concerned members/scientists.