

Proceedings of 6th Research Council Meeting held on 13.07.2022 at 11.00 AM in hybrid mode at Data Centre, Bihar Animal Sciences University, Patna.

The 6th Research Council meeting was held under the chairmanship of Dr Rameshwar Singh, Hon'ble Vice-chancellor, Bihar Animal Sciences University, Patna, following members were present in the meeting conducted in hybrid mode.

1.	Dr. Rameshwar Singh, Hon'ble Vice-Chancellor, BASU, Patna	Chairman
2.	Dr. Ravindra Kumar, Director Research, BASU	Member Secretary
3.	Dr Veer Singh, DRI-cum-Dean, PGS, BASU, Patna	Member
4.	Dr. A. K. Thakur, Director Extension, BASU	Member
5.	Dr. J. K. Prasad, Dean, B.V.C., Patna	Member
6.	Dr. V. P. Saini, Dean C.O.F., Kishanganj	Member
7.	Dr Yashpal Singh Malik, Dean, School of Biotechnology, GADVASU, Ludhiana	Member
8.	Dr J. B. Prajapati, Chairman, VKCOE, Institute of Rural Management, Anand	Member
9.	Sh Sanjay Kumar, Director Dairy, Govt. of Bihar,	Member
10.	Dr Anup Agarwal, Representative of Director, AH	Member
11.	Dr Tun Tun Singh, representative of Director, Fisheries	Member
12.	Sh R K Mishra, Representative of MD, Comfed, Patna	Member
13.	Dr Rambilash Paswan, Project Director, BLDA, Patna	Member
14.	Dr. Pawan Kumar, MD, Hitech Nutrisol Pvt. Ltd., Hajipur	Member
15.	Dr. Rakesh Kumar, Fishery farmer, Chainpur, Siwan	Member
16.	Sh Vivekanand Singh, Dairy Farmer, Darbhanga	Member
17.	Dr. S.P. Sahu, HoD, LPM, BVC	Member
18.	Dr. Sushma Kumari, HoD, LPT, BVC	Member
19.	Dr. Sanjay Kumar Bharti, HoD, Veterinary Anatomy.	Member
20.	Dr. Pallav Shekhar, HoD, TVCC.	Member
21.	Dr. Deepak Kumar, HoD, Pathology.	Member
22.	Dr. Nirbhay Kumar, HoD, Veterinary Pharmacology	Member
23.	Dr. Pramod Kumar, HoD, Veterinary Physiology	Member
24.	Dr. Ajeet Kumar HoD Veterinary Biochemistry	Member
25.	Dr. Ajit Kumar HoD Veterinary Parasitology	Member
26.	Dr. Arvind Kumar Das HoD Vety. Medicine, BVC, Patna	Member
27.	Dr. Pankaj Kumar HoD, VAHEE	Member
28.	Dr. P. Kaushik HoD, Vety Public Health & Epid.	Member
29.	Dr. Manoj Kumar HoD Veterinary Microbiology	Member
30.	Dr Rakesh Kumar, HOD, DM, SGIDT	Member
31.	Dr Sanjiv Kumar, HOD, SGIDT	Member



At the very outset Dr. Ravindra Kumar (Director Research) welcomed the members of the Research Council and requested Hon'ble Chairman Dr. Rameshwar Singh for his opening remarks.


Hon'ble Vice-Chancellor Dr. Rameshwar Singh in his opening remarks gave a brief description of important research activities and appreciated the Scientists on their research achievements especially in Veterinary and Fisheries Sciences. Before taking up the agenda items a snapshot of salient developments and research achievements since last research council meeting was presented by the member secretary i.e. Director (Research). The presentation on salient research achievements, presented by member Secretary was appreciated by esteemed members of the Research Council.

Thereafter, the agendas were taken up for discussion as directed by the Chairman as follows:

Agenda	Agenda details	Decision
Item No. 1	Confirmation of proceedings of 5 th Research council meeting and presentation of action taken report on Fifth research council meeting held on 12.01.2022.	The proceedings of the 5 th Research Council was confirmed and action taken report was accepted by the house.
Agenda item No. 1.0	Final Presentation of achievements of completed university funded research projects	
I.	Studies on Urohydropropulsion and Tubecystostomy for surgical management of Urolithiasis in goats - Dr Ramesh Tiwary, PI	<p>Dr Gyan Dev Singh presented the project report, and the salient findings reported were:</p> <ul style="list-style-type: none"> • Early age of castration and as a sole feeding of more phosphorus containing concentrate diet like Chhapati, Chorai (Khesari Husk) and wheat bran etc. could be the reason for urolithiasis in male goats. • Castration is recommended after 90 days of age. • Supplementation of mineral mixture is recommended with recent feeding practices to balance excess phosphorus in diet for prevention of urolithiasis in male goats. • Under field condition a combination of urethral process amputation and urohydropropulsion technique is recommended for

		<p>management of urolithiasis in male goats.</p> <ul style="list-style-type: none"> • When recurrent urethral obstruction occurs due to calculi urohydropulsion and tubecystostomy are recommended technique for management of urolithiasis in male goats. • In case of ruptured urinary bladder due to uroliths tubecystostomy is the only surgical technique to save the life of male goat. <p>The Project report was accepted, with advise to publish the results in relevant journal.</p>
<p>II.</p>	<p>Assessment of Moringa Oleifera as a fodder – Dr Ravi Ranjan Kumar Sinha, PI</p>	<p>The Project report presented by Dr RRK Sinha. The salient findings reported were:</p> <ul style="list-style-type: none"> ■ First cut produced 10.5 quintals, second cut produced 12 quintals and Third cut produced 14 quintals of Moringa fodder from one acre plot. ■ Feeding Moringa helped in achieving normal growth and performance in calves without concentrate. ■ Moringa feeding is cheaper protein source for calves' nutrition. ■ recommended that replacement of concentrate with Moringa oleifera leaves could be used as a protein supplement for Sahiwal calves and improves growth performance without any adverse effect on health of Sahiwal calves. <p>The finding of the project was appreciated and members recommended to continue the work on advantages of <i>Moringa Oleifera</i>, as a</p>

		fodder crop. Project report was accepted.
III.	Metagenomic analysis of chicken gut microflora and its modulation by supplementation of tannins and Virginiamycin – Dr Kaushlendra Kumar, PI	<p>The project report presented by the PI and salient findings of the project were:</p> <ul style="list-style-type: none"> ❖ Metagenomics study data shows that there was variation in microbial diversity among the treatment groups at different time interval in comparison to control group. ❖ 12th days taxonomical distribution data reflected similarity between control and tannic acid group, whereas at 35th days reported similarity between tannic acid and probiotic supplemented groups. ❖ The <i>Bacteroides</i> and <i>Lactobacilli</i> genus population was found to be higher side in all treatment groups in comparison with control, which shows positive impact on gut health of broiler birds. ❖ All 12 sequences published on NCBI GeneBank (Accession No. SRX14810896 to SRX14810907) <p>The project report was appreciated and accepted with advise to continue the work on this aspect.</p>
Agenda item No. 2.0	Extension of time in the University funded projects	
a)	Evaluation of Proliferative and apoptotic markers in Canine mammary tumours for diagnosis and prognosis.	<p>The project was sanctioned in Nov. 2019 for a period of 2 years with budget of Rs. 9.38 lakhs to Dr Kaushal Kumar, Asstt Prof. Vety Pathology as PI. He has conveyed that due to COVID 2019 the no of cases reported in clinics was less and the work of Immunohistochemistry is yet to be completed, so requested for extension in the duration of the project.</p>



		The Research Council allowed one year extension in the project, till Nov. 2022.
	b) Colorimetric detection of <i>E.Coli</i> , <i>Streptococcus spp.</i> and <i>Staphylococcus aureus</i> isolated from Mastitis Milk samples by optical biosensing using oligonucleotide -Gold Nanoparticles.	<p>The project was sanctioned in Nov. 2019 for period of three years with budget of 12.50 lakhs and Dr Ajeet, PI has conveyed that entire analytical work for <i>E Coli</i> and <i>Streptococcus spp.</i> has been completed, however the optical biosensing using oligonucleotide – Gold particle for <i>Staphylococcus</i> is yet to be completed and has requested for one year extension, with permission to use unspent budget of Rs. 5,68,725/- to be used.</p> <p>The Research Council allowed one year extension, till Nov. 2023; with permission to use the unspent balance of approved budget.</p>
Agenda item No. 3.0	Presentation of Technologies developed	
a.	Non-veg Stuffed Litti (Meat Dough-Ball / Meat Litti)	Dr Sushma Kumari made a detailed presentation on technology developed for preparation of Stuffed Meat Litti. The technology involves utilization of meat from spent layer birds. She presented the sensory attributes as tested by panel of experts and shelf life were comparable to the traditional products. The Technology was approved for release subject to conduct of organoleptic tests with common people on a larger scale. The Council also suggested to provide training to youth on this technology as there is potential for taking it to the public. (Annexure – I)
b.	Whey Belgrami	Dr Sushma Kumari made a detailed presentation on technology developed for preparation of Whey Belgrami. The Technology was approved for release. (Annexure – II)

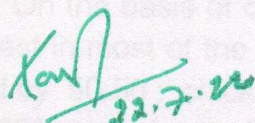


c.	BASUMIN Mineral mixture	Dr Pankaj Kumar Singh (Animal Nutrition) made a detailed presentation on technology developed for preparation of BASUMIN mineral mixture, which was appreciated and approved for release. (Annexure – III)
d.	Portable Bamboo Cage for birds	Dr Pankaj Kumar (Extension Department) made a detailed presentation on technology developed for preparation of Portable Bamboo cages for birds, as a night shelter. He showed the pictures of different prototypes and reported that the bamboo cages are much likely to be adopted by the smallholder farmers. The technology was approved for release. (Annexure – IV)

After the presentations the Chairman, invited the members for their comments. Members of Research Council appreciated the research work being carried out in the University. Dr J B Prajapati appreciated the achievements of the University in securing new projects under competitive grants and advised that Scientists should also work on production and mitigation of greenhouse gases by the ruminants. Dr Yashpal Singh Malik lauded the progress of various projects and advised for collaboration in different National Institutions. Dr Pawan Kumar and Sh Kumar Rakesh suggested for more work on Fish feed and alternate fish farming model in view of changes in climate.

The Meeting ended with vote of thanks to the Chair.

Confirmed


22.7.22

Hon'ble Vice Chancellor

Chairman


22/7/22

Member Secretary