

Proceedings of 7th Research Council Meeting held on 10.07.2023 and 27.07.2023 at 10.00 AM in hybrid mode at Data Centre, Bihar Animal Sciences University, Patna.

The Seventh Research Council Meeting was held under the Chairmanship of Dr. Rameshwar Singh, Honorable Vice-chancellor of the Bihar Animal Sciences University, Patna.

The following members were present in the hybrid mode meeting.

1.	Dr. Rameshwar Singh, Hon'ble Vice-Chancellor, BASU, Patna.	Chairman
2.	Dr. V. K. Saxena, Director Research, BASU, Patna.	Member Secretary
3.	Dr Veer Singh, DRI-cum-Dean, PGS, BASU, Patna.	Member
4.	Dr. A. K. Thakur, Director Extension, BASU, Patna.	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. Chandrasahas Prajapati Dean, COVAS, Kishanganj	Member
8.	Dr S. K. Singh, Joint Director (Research), IVRI, Izatnagar, Bareilly	Member (Eminent Scientist)
9.	Dr Vikas Vohra, Head, Animal Genetics & Breeding, NDRI, Karnal	Member (Eminent Scientist)
10.	Shri Sanjay Kumar, Director Dairy, Govt. of Bihar	Member
11.	Dr R.R. Chaudhary, Representative of Director, AH, Bihar	Member
12.	Dr Tun Tun Singh, Representative of Director, Fisheries, Bihar	Member
13.	Shri R. K. Mishra, Representative of MD, COMFED, Patna	Member
14.	Dr Manoj Kumar Kashyap, Project Director, BLDA, Patna	Member
15.	Dr. Pawan Kumar, MD, Hitech Nutrisol Pvt. Ltd., Hajipur	Member (Co-opted)
16.	Shri Praksh Singh, Poultry Farmer, Muzaffarpur	Member (Co-opted)
17.	All HoDs/ University Professors of BVC Patna	Member
18.	All HoDs / University Professors of SGIDT Patna	Member
19.	All HoDs / University Professors of CoVAS and CoF, Kishanganj	Member
20.	PIs and Co-PIs of the projects	Invited

At the outset, Dr. V.K. Saxena, Director Research and Member Secretary of council welcomed Hon'ble Vice Chancellor, 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 remark urged the scientists to work in advance field and need based areas and develop the technologies for benefit of farmers and stakeholders. He also appreciated the efforts made in R&D in past and stressed to further improvement.

The member secretary, Dr V. K. Saxena, appreciated Dr Pankaj Kumar Singh Deputy DR and Dr Manoj Kumar, I/C PME for their efforts in compilation and preparing the manuscript of the "Research Project and Highlights 2023". He presented the Action Taken Report (ATR). First of all, the confirmation of proceedings of the 6th RCM-2022, was confirmed and the house was apprised about release of technologies as per the approved proceedings of technology release committee meeting held on 18.04.2023.

The member secretary, presented a snapshot of salient developments and research achievements since the last Research Council Meeting. The distinguished members of the Research Council appreciated the presentation by the member secretary on salient research achievements.

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

Agenda	Agenda details	Decision	Action taken report
Item No. 1	Confirmation of proceedings of 6 th Research Council Meeting and presentation of action taken report on sixth research council meeting held on 13.07.2022.	The 6 th Research Council meeting action taken report was presented.	The proceedings of the 6 th Research Council was confirmed, and action taken report was accepted by the house.
Item No. 2	Progress made during 2022-2023 in ongoing/ completed research projects.	The Member Secretary made a detailed presentation on the salient achievements of all the ongoing projects.	No action required
	a. Externally funded project		
	Sincere efforts have been made over the last year to persuade new research projects from various funding organizations. Two new research projects have been granted to the institution by the Department of Biotechnology, New Delhi, and one project from DAHD, New Delhi under National Livestock Mission was sanctioned.		The house expressed its satisfaction for the dedicated efforts made to pursue and secure new research projects.
i.	PI: Dr Rohit Jaiswal, LPT, BVC	Rapid techniques for differentiation of slaughtered versus dead on arrival food animal meat (DBT funded)	No action required

ii.	PI: Dr Alok Kumar VGO, BVC	The combined effect of Quercetin and platelet rich Plasma in semen extender for improved antibacterial efficacy and membranes repairing potential of cryopreserved buck semen (DBT funded)	No action required
iii.	PI: Dr Alok Kumar VGO, BVC	Bio-fabricated Gold Nano-particle based Improved semen Extender to Augment the post-thaw quality of Goat semen (NLM funded)	No action required
iv.	PI: Dr Mamta Singh, CoF, Kishanganj	Transcriptome profiling for identification of abiotic (heat and cold) stress responsive genes in <i>Clarius batrachus</i> (NICRA funded)	No action required
v.	PI: Dr Nirbhay, VPT, BVC	Outreach Programme on "Monitoring of drug residues & environmental Pollutants" (ICAR Funded)	No action required
vi.	PI: Dr Pankaj Kumar Singh, ANN, BVC	Nutritional Amelioration Strategies for heat Stress to Sustain Dairy Milk Production in Bihar State of India (Australia India Council funded)	No action required
vii.	PI: Dr Pankaj Kumar, VMC, BVC	National Animal Disease Epidemiological Network-(NADEN), (funded by NIVEDI)	No action required
viii.	PI: Dr Manoj Kumar, VM BVC	"Image Capturing of pest/diseases in Crop/Livestock-AI based Mobile App under NAHEP Component 2A (ICAR funded)	No action required
ix.	PI: Dr Manoj Kumar, VMC, BVC	LHDCCP-FMD Control programme (ICAR Funded)	No action required
x.	PI: Dr J K Prasad, Dean, BVC	Establishment of Embryo Transfer Technology Centre (RGM Funded)	Detailed report on embryo transfer/ OPU-IVF, transfer of frozen IVF embryo and its success rate etc. including future work plan, need to be submitted.
xi.	PI: Dr Ajeet Kumar, VBC, BVC	FIST Programme-2016 (DST Funded)	No action required
xii.	PI: Dr Pankaj Kumar, VAHEE, BVC	Poultry Seed Project (PSP) (DPR funded)	Detailed information on impact of intervention economic strengthening of farmers, farmers covered etc. has to be submitted.

b. Ongoing Institutional Research Projects			
i.	PI: Sushma Kumari, LPT BVC	Development and quality evaluation of flavoured paneer	No action required
ii.	PI: Bhoomika, VPHE, BVC	Evaluation of probiotic potential and antimicrobial efficacy of Lactobacillus spp. isolates from gastrointestinal tract of animals and human	Exploration of probiotic properties of Lactobacilli should be prioritized. Progress is unsatisfactory, the work need to be hastened and the targeted objectives to be met in stipulated time
iii.	PI: Pankaj Kumar Singh, ANN BVC	Preparation and evaluation of canine food prepared from using locally available feed resources and poultry by-products	No action required
iv.	PI: Archana, VSR, BVC	Impact of physiotherapy in rehabilitation of clinical cases of neuro-muscular disorders in animals.	No action required
v.	PI: Gyan Dev Singh, VCC, BVC	Evaluation of autologous and heterologous platelet-rich fibrin application on cutaneous wound healing in dogs	More detailed report may be submitted.
vi.	PI: Pankaj Kumar VMC, BVC	Molecular prevalence of haemoprotozoal and rickettsial disease of bovine	No action required
vii.	PI: Ajeet Kumar, VBC, BVC	Biofabrication of gold nanoparticles and its antiproliferative effect in cell line	No action required
viii.	PI: Ajeet Kumar, VBC, BVC	Colorimetric detection of E. coli, Streptococcus spp. and Staphylococcus aureus isolated from mastitis milk samples by optical biosensing using oligonucleotide- gold nanoparticles	Completion report may be submitted.
Agenda item No. 3	Projects requested for extension of duration		
i.	PI: Kaushal Kumar, VP, BVC	Evaluation of Proliferative and apoptotic markers in Canine mammary tumour for diagnosis and prognosis: Request: One year extension requested	An extension of one year recommended to the project inclusion of some more parameters and the objective proposed in new project also be undertaken in this project. The remaining works of old project and the new project to be completed in the extended period of one year using unutilized budget.

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ii.	PI: Anjay Kumar, VPHE, BVC	Isolation and characterization of bacteriophages targeting food borne pathogens from sewage samples of livestock farm. Request: Six-month extension was requested with permission to utilized unspent amount. Honourable Vice-chancellor kindly granted the principle approval of six month Submitted for ratification by RC.	House agreed to grant extension of six months.
iii.	PI: Pramod Kumar LFC, BVC (on study leave)	Dietary supplementation of phytase and xylanase on performance and egg quality of Vanaraja layer bird fed on wheat bran-based diet. Request: Dr Kaushalendra Kumar, ANN, BVC, may be nominate as PI and project, may be extended up-to Feb 2025 with total budget of Rs. 2.00 lakh.	Approved
iv.	PI: Dr V P Saini, Dean CoF, Kishanganj	Inventorization and documentation of aquatic resources and Resource Users of Kishanganj district of Bihar- Request: Extension till 31.03.2025 with total budget of Rs. 11.00 lakh is requested as work could not be completed due to non-release of funds.	Approved.
Agenda item No. 4	Approval of in-principle approved project		
a.	Pathological analysis of mortalities in higher body weight broiler chicken during transportation	PI: Dr Sanjiv Kumar, Vety. Pathology Budget: 3.71 Lakh Duration 2 years	Approved with suggestion that seasonal variations may be taken into account.
Agenda item No.5	Presentation of Technologies developed		
a.	Non-veg stuffed litti (Meat Dough-Ball / Meat Litti) Inventor: Dr. Sushma Kumari, Assoc. Prof., LPT, BVC, Patna made a detailed presentation on technology developed for preparation of Stuffed Meat Litti.	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.	Technology release on: • BASU-Chicken Litti • BASU-Chevon Litti • BASU-Mixed Non-Veg Litti All released vide O.O. No. 64/DR Cell/BASU, Patna dated 18.04.2023.

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b.	Whey Belgrami Inventor: Dr. Sushma Kumari, Assoc. Prof., LPT, BVC, Patna.	Dr Sushma Kumari made a detailed presentation on technology developed for preparation of Whey Belgrami. The Technology was approved for release.	Technology on "BASU-Belgrami" released vide O.O. No. 64/DR Cell/BASU, Patna dated 18.04.2023.
c.	BASUMIN Mineral mixture Inventor: Dr Pankaj Kumar Singh (Animal Nutrition)	The technology was approved for release.	Technology on BASUMIN " released vide O.O. No. 64/DR Cell/BASU, Patna dated 18.04.2023.
d.	Portable Bamboo Cage for birds Inventor: Dr Pankaj Kumar (VAHEE)	The technology was approved for release.	Technology on BASU Eco-Poultry Cages" released vide O.O. No. 64/DR Cell/BASU, Patna, dated 18.04.2023.
Agenda Item No. 6	Presentation of research proposals submitted during 2023-2024 for consideration of funding by the University.		
	Bihar Veterinary College, Patna		
Sl. No.	Title of Project	Principal Investigator	Recommendations
1.	Generation of microbial resources and prevalence study of pathogens of poultry origin in Bihar <i>Budget Rs 7.0 Lakhs</i> <i>Duration: 2 Year</i>	Dr S K Gupta, Univ. Professor Vety. Microbiology	Approved with following suggestions: • The research team should include an epidemiologist. • The ICAR-RCER scientist's consent should be acquired.
2.	Antibacterial and wound healing properties of bioadhesives from biomass derived Carbon Dots. <i>Budge: Rs 3.25 Lakhs</i> <i>Duration: 2 Year</i>	Dr. Manoj Kumar, Associate Professor Vety. Microbiology	Approved. The preliminary trial should be conducted on laboratory animals.
3.	Development of staining protocol for co-localizing Zn and Ag in Nucleolar organizing regions as a tool for assessing aggressiveness of superficial tumours in animals. <i>Budget Rs 2.40 Lakhs</i> <i>Duration: 3 Year</i>	Dr. Sanjiv Kumar, Associate Professor Vety. Pathology	Approved with recommendation that objectives may be revised as suggested.
4.	Studies on expression of proliferation markers in tumours diagnosis of dogs. <i>Budget Rs 2.40 Lakhs</i> <i>Duration: 3 Year</i>	Dr. Kaushal Kumar Associate Professor Vety. Pathology	Merged with previous project of PI with budget available in previous project.

5.	Development of Pathological Museum for gross-changes in organs in different disease condition. <i>Budget Rs 2.80 Lakhs</i> <i>Duration: 3 Year</i>	Dr. Imran Ali Associate Professor Vety. Pathology	Approved and recommended to be continue as service project.
6.	Study on status of acaricide resistance in tick population of Bihar <i>Budget Rs 3.55 Lakhs</i> <i>Duration: 3 Year</i>	Dr. Shyma K.P. Associate Professor Vety. Parasitology	Approved. Quantifiable targets to be provided in detailed RPF-1. Inputs from IVRI may be obtained for any modifications.
7.	Development of Parasitological Museum <i>Budget Rs 4.25 Lakhs</i> <i>Duration: 3 Year</i>	Dr. Pankaj Kumar, Associate Professor Vety. Parasitology	Approved with recommendations that the project may be continued as service project.
8.	Study of Anthelmintic Resistance in Gastro-intestinal Nematodes in Cattle of Bihar <i>Budget Rs 3.50 Lakhs</i> <i>Duration: 3 Year</i>	Dr. Raj Kishore Sharma, Associate Professor Vety. Parasitology	Approved with recommendations that project may carried as a pilot study in home farm (LFC) of BVC Patna. Budget to be limited to Rs. 2.0 Lakhs and 2 years duration.
9.	Molecular epidemiology and antimicrobial resistance profile of E. coli, Salmonella spp. and Bacillus spp. isolated from ready-to-eat street vended foods. <i>Budget Rs 5.0 Lakhs</i> <i>Duration: 2 Year</i>	Dr. Seuli Saha Roy Univ. Professor VPHE.	Not approved
10.	Evaluation of trefoil factor (tff1 & tff3) as a biomarker in canine mammary tumour and development of ELISA for its estimation in serum <i>Budget Rs 4.0 Lakhs</i> <i>Duration: 3 Year</i>	Dr. Himalaya Bhardwaj Assistant Prof. Vety. Biochemistry	Approved with recommendation that project team should focus on "early detection" and it should be included in objectives.
11.	Improvement of Conception in Repeat Breeder Cows following Hormonal Treatment and Development of Accessory Corpus Luteum <i>Budget Rs 3.0 Lakhs</i> <i>Duration: 2 Year.</i>	Dr. Shailendra Kishore Sheetal Assistant Professor Vety. Gyna. & Obst.	Approved with recommendation that the technical programme should be redesigned after consultation with the Dean, BVC.
12.	Evaluation of bubaline and caprine acellular matrix in repair of abdominal wall defects in animals <i>Budget Rs 3.5 Lakhs</i> <i>Duration: 2 Year</i>	Rajesh Kumar Associate Professor Vety Surgery & Radiology	Approved.

13.	Development of device for diagnosis and prevention to access metallic foreign body and Surgical management of Traumatic Pericarditis in Bovine. <i>Budget Rs 7.0 Lakhs</i> <i>Duration: 3 Year</i>	Dr. Ramesh Tiwary Associate Professor Vety Surgery & Radiology	Approved with suggestions that the developed prototype may be evaluated on some dummy models and it should be able to locate exact location of the metallic objects.
14.	Preparation of permanent histological slides of all major organs of ox, goat, dog and domestic fowl: Indispensable techniques in Anatomy education. <i>Budget Rs 2.45 Lakhs</i> <i>Duration: 2 Year</i>	Dr. Avnish Kr. Gautam Assoc. Prof, Vety Anatomy	Approved. The project may be continued as service project.
15.	Preservation of organs of domestic animals by plastination technique to improve teaching of anatomy and preparation of eco-friendly museum specimens. <i>Budget Rs 2.25 Lakhs</i> <i>Duration: 2Year</i>	Dr. Ratnesh Kr. Choudhary, Associate Professor Veterinary Anatomy	Approved and recommended to be continue as service project.
16.	Preparation of Osteological Museum of Domestic Animals and Birds. <i>Budget Rs 2.50 Lakhs</i> <i>Duration: 2Year</i>	Dr. Sanjay Kr. Bharti Associate Professor Veterinary Anatomy	Approved and recommended to be continue as service project
17.	Pilot study on standardisation of dietary supplementation of Litchi seed (<i>Litchi chinensis</i>) in Chicken feed <i>Budget Rs 4.80 Lakhs</i> <i>Duration: 2Year</i>	Dr. Pankaj Kumar Singh University Professor Animal Nutrition	Approved with suggestion that the project may be focused on broilers only. The budgetary will be limited to 2.0 Lakh
18.	Utilization of Poultry Waste for Organic Manure Production: Development of a Model Unit <i>Budget Rs 3.75 Lakhs</i> <i>Duration: 2Year</i>	Dr. Kaushalendra Kumar Associate Professor Animal Nutrition	Approved.
19.	Effect of seasonal variation in rumen microbiome in indigenous and crossbred cattle <i>Budget Rs 6.80 Lakhs</i> <i>Duration: 2Year</i>	Dr. Sanjay Kumar Associate Professor Animal Nutrition	Not approved
20.	Effect of feeding non- conventional green fodder <i>Dimeria ornithopoda</i> and <i>Saccharum munj</i> on productive performance of Goat. <i>Budget Rs 5.9 Lakhs</i> <i>Duration: 2Year</i>	Dr. Dharmendra Kumar Associate Professor Animal Nutrition	Approved.

21.	Seasonal effect of whey supplementation on broiler production. <i>Budget Rs 0.50 Lakhs</i> <i>Duration: 2Year</i>	Dr. Sanjay Kumar Assistant Professor Livestock Production Management	Not approved. He was suggested to develop the silage using the banana stem. After successful development of this silage, he may develop a project for its evaluation.
22.	Model for farming system integrating poultry, fish, worms, mushroom, seasonal vegetables and fruits <i>Budget Rs 18.45 Lakhs</i> <i>Duration: 3Year</i>	Dr. Ravikant Nirala Assistant Professor Livestock Production Management	Kept in abeyance
23.	Phenotypic and Genetic Characterization of Goats of West Champaran, Bihar <i>Budget Rs 5.2 Lakhs</i> <i>Duration: 3Year</i>	Dr. Ramesh Kr. Singh Assistant Professor AG&B Div.	Approved with suggested revisions: i. The name Tharu to be removed ii. The molecular genetic work not to be undertaken. iii. One Co-PI to be added from CoVAS Kishanganj iv. Budget to be revised to 3.75 Lakh and duration 2 year.
24.	Detection of polymorphism in MHC class II genes and their association with theileriosis in cattle <i>Budget Rs 2.5 Lakhs</i> <i>Duration: 2Year</i>	Dr. Soni Kumari Assistant Professor, Animal Genetics and Breeding	Approved.
25.	Comparative global gene expression profile of interaction of host against natural infection of theileria in crossbred and indigenous cattle against natural infection of theileria in crossbred and indigenous cattle <i>Budget Rs 6.30 Lakhs</i> <i>Duration: 3Year</i>	Dr. Jay Prakash Gupta, Associate Professor AG&B Div.	Approved.
26.	Augmenting fertility and oocyte recovery rate in bovine by feeding Omega-3 rich fatty acid (flax seed) enriched diet. <i>Budget Rs 3.4 Lakhs</i> <i>Duration: 2Year</i>	Dr Dushyant Yadav Assistant Professor Livestock Farm Complex.	Approved with the suggestion that Objective No. 01 to be removed. The parameters of ROS and antioxidant level estimation may be included in biochemical analysis.



27.	Prediction of Milk Production Performance by Muzzle Biometry Technique in Lactating Cows <i>Budget Rs 1.35 Lakhs</i> <i>Duration: 3Year</i>	Dr D. N. Singh Associate Professor Livestock Farm Complex	Not Approved.
28.	Molecular Detection and Assessment of Oxidative Stress in Bovine Theileriosis Carrier Cattle Encompassing Patna District of Bihar <i>Budget Rs 3.35 Lakhs</i> <i>Duration: 3Year</i>	Dr. Anil Kumar Associate Professor Veterinary Clinical Complex	Approved with suggestions to ascertain the reasons of using the parameters of oxidative stress evaluation in relation to theileria and revise the project accordingly.
29.	Assessment of Poultry Waste Management Practices at commercial hatcheries and poultry shops in Bihar <i>Budget Rs 3.30 Lakhs</i> <i>Duration: 2Year</i>	Dr. Puspendra Kr. Singh, Assistant Prof. VAHEE.	Approved with suggestion that project should focus on poultry farm and hatchery.
30.	Study on diagnosis of alopecia in dog with special reference to etiology, trichometry and histologic alteration <i>Budget Rs 3.75 Lakhs</i> <i>Duration: 2 Year</i>	Dr. Bipin Kumar, Assoc. Professor	Approved with suggestion that project may be undertaken as pilot study with one year duration and budget to be limited to Rs 1.5 Lakhs.
31.	Detection of etiological factors for renal failure in dogs and establishment of dialysis unit for its management at Veterinary Clinical Complex, BVC, Patna <i>Budget Rs 3.5 Lakhs</i> <i>Duration: 2Year</i>	Dr Mritunjay Kumar, Assoc. Professor Vety. Medicine	Not Approved (kept pending)
Sl. No.	Sanjay Gandhi Institute of Dairy Technology, BASU Patna		
1.	Technical and Economic Efficiency of Milk Producers in Different Agro-Climatic Zones of Bihar <i>Budget Rs 2.50 Lakhs</i> <i>Duration: 2Year</i>	Dr. Awadhesh Kumar Jha, Assoc. Professor Dairy Business Management.	Approved with revised objectives.
2.	Spatial and Temporal Changes in Livestock and Poultry Population in Bihar <i>Budget Rs 0.70 Lakhs</i> <i>Duration: 2Year</i>	Dr. Bhola Nath Assistant Professor Dairy Business Management	Approved after removing poultry from title and technical program.

3.	A study on development of omega three enriched herbal ghee supplemented with brahmi <i>Budget Rs 2.93 Lakhs</i> <i>Duration: 3Year</i>	Dr. Binod Kumar Bharti, Asstt. Prof. Dairy Chemistry	Not Approved
4.	Evaluation of the impact of seasonal variation on milk nutritional composition of different breeds available at LFC, Bihar Animal Sciences University (BASU), Patna. <i>Budget Rs 2.85 Lakhs</i> <i>Duration: 2Year</i>	Dr. Anuradha Kumari Assistant Professor, Dairy Chemistry	Not Approved
5.	Process optimization of low fat long life herbal vacuum packaged paneer/soft cheese <i>Budget Rs 3.7 Lakhs</i> <i>Duration: 2Year</i>	Dr. J. Badshah University Professor Dairy Engraining	Approved.
6.	Development of Finger millet, Flax seed and SMP based ready to eat supplementary food <i>Budget Rs 3.5 Lakhs</i> <i>Duration: 2Year</i>	Dr. Binita Rani, Associate Professor Dairy Chemistry	Suggestion: Premix of product is to be prepared first and some basic parameters to be evaluated within 1 Month duration and Rs 0.10 lakh budget. Further decision will made afterwards
7.	Development of whey based drink by utilization of fruit pulp <i>Budget Rs 3.5 Lakhs</i> <i>Duration: 2Year</i>	Dr. Diwakar Mishra, Assistant Professor Dairy Technology	Not Approved
8.	Development of Composite Nutribar Based on Milk and Finger Millet (Ragi) <i>Budget Rs 4.0 Lakhs</i> <i>Duration: 3Year</i>	Dr. Jui Lodh Assistant Professor Dairy Technology	Suggestion: The normal nutribar without millet to be prepared within 3-month time and Rs 0.15 lakh budget. Further decision will made afterwards
9.	Effect of Ohmic heating on rheological properties and sensory attributes of skimmed milk and whole milk <i>Budget Rs 3.60 Lakhs</i> <i>Duration: 2Year</i>	Mrs. Rashmi Kumari Assistant Professor Dairy Chemistry	Approved.

10.	Development of Probiotic Yoghurt enriched with Water chesnut (Shinghara) and Sweet Potato and Assessment of Consumers acceptability. <i>Budget Rs 4.0 Lakhs</i> <i>Duration: 3 Year</i>	Dr. (Mrs) Sonia Kumari Assistant Professor Dairy Microbiology	Will be reviewed again.
11.	Studies on development of ready-to-eat (RTE) type pudding added with chestnut <i>Budget Rs 4.0 Lakhs</i> <i>Duration: 2 Year</i>	Mr. Suryamani Kumar Assistant Professor Dairy Technology	Suggestion: The pilot study may be undertaken with a duration of 2 months and Rs 0.15 lakh budget. Further decision will made afterwards
12.	Feeding Patterns and Economics of Milk Production in Different Agro-Climatic Zones of Bihar <i>Budget Rs 2.50 Lakhs</i> <i>Duration: 2 Year</i>	Dr. Rohit Kumar Assistant Professor Dairy Extension Education	Approved with recommendations that objectives may be re-written.
13.	Development of Educationally Interactive Exhibits <i>Budget Rs 4.0 Lakhs</i> <i>Duration: 2 Year</i>	Ms. Sarvjeet Kaur Assistant Professor Dairy Extension Education	Approved and recommended to be continued as service project.
14.	Structural Transformation during the National Dairy Plan Phase - I in Bihar Dairy Sector vis-à-vis Indian Dairy Sector <i>Budget Rs 1.46 Lakhs</i> <i>Duration: 2 Year</i>	Dr. Shiv Raj Singh Associate Professor Dairy Extension Education	Approved.
15.	Value Chain Analysis of Goat Farming Practices in Bihar <i>Budget Rs 7.5 Lakhs</i> <i>Duration: 3 Year</i>	Dr. YS Jadoun (PI), Assistant Professor Dairy Extension Education	Approved with recommendation to revise the project by including electronic formats.
16.	Studies on the Development of synbiotic food formulations with Banana, Pearl Millet and Honey <i>Budget Rs 2.5 Lakhs</i> <i>Duration: 2 Year</i>	Dr. Rakesh Kumar Associate Professor Dairy Microbiology	Not Approved
Sl. No.	College of Fishery Kishanganj		
1.	Prevalence and Existence of Pathogenic strain of <i>E. coli</i> in fish from fish market of Simanchal region. <i>Budget Rs 4.5 Lakhs</i> <i>Duration: 3 Year</i>	Dr. Abhishek Thakur, Assistant Professor Fish Processing Technology.	Approved with revisions as per the suggestions of Dr Tun Tun Singh and other experts.



2.	Inventorization, cataloguing and development of live gene bank of native ornamental fishes of Seemanchal region of Bihar. <i>Budget Rs 4.40 Lakhs</i> <i>Duration: 3 Year</i>	Dr. Rupam Samanta, Assistant Professor Fisheries Resource Management	Approved with revisions as per the suggestions of Dr Tun Tun Singh and other experts.
3.	Development of Herbal feed supplement to Achieve Enhanced Production of Clarias magur (Hamilton, 1822) <i>Budget Rs 3.0 Lakhs</i> <i>Duration: 3 Year</i>	Dr. Sangeeta Kumari, Assistant Professor Aquaculture	Approved with recommendations that trials on judicious selection and utilization of herbal supplements should be done. The technical programme to be revised accordingly.
4.	Effect of Wolfia based diet on growth and colour enhancement of gold fish (Carassius auratus). <i>Budget Rs 1.5 Lakhs</i> <i>Duration: 1 Year</i>	Dr. Sagarika Swain Assistant Professor Aquaculture	Approved with recommendations to revise the technical program by initially undertaking trial with single treatment followed by two more trials.
5.	Evaluation of wounds healing ability of Mikania micrantha individually and in combination with Curcuma longa in Clarias magur. <i>Budget Rs 1.5 Lakhs</i> <i>Duration: 1 Year</i>	Dr. Naresh Raj Keer. Assistant Professor Aquaculture	Approved.
6.	Development of genetic lines for appearance traits via artificial selection in Colisa fasciata <i>Budget Rs 3.50 Lakhs</i> <i>Duration: 5 Year</i>	Ms. Aishwarya Sharma, Assistant Professor Fish Genetics and Breeding	Approved.
7.	Study on Fish Marketing System: Evidence from Fish Markets of Seemanchal Region Bihar. <i>Budget Rs 2.50 Lakhs</i> <i>Duration: 3 Year</i>	Mr. Ravi Shankar Kumar, Assistant Professor Fish Genetics and Breeding	Approved.
8.	Study on Occurrence and Risk Assessment of Microplastics in Mahananda River, India <i>Budget Rs 4.0 Lakhs</i> <i>Duration: 2 Year</i>	Mr. Tapas Paul, Assistant Professor Aquatic Environment Management	Approved with minor revision of site selection and sampling method as per discussion.
9.	Study on the antiparasitic effect of green synthesized Silver nanoparticles against common ectoparasites of goldfish Carassius auratus <i>Budget Rs 3.0 Lakhs</i> <i>Duration: 2 Year</i>	Ms. Pushpa Kumari, Asstt. Prof. Aquatic Animal Health Management	Approved with revision of selecting some other plant(s) and as per suggestions of Dr Ajit Kumar Assoc Prof. Biochem. BVC, Patna.

Done

10.	Toxicological effect of Iron on Indian Major carps and Its Removal through Column Filtration Unit <i>Budget Rs 4.5 Lakhs</i> <i>Duration: 3 Year</i>	Mr. Ashutosh Kumar Singh, Asstt. Prof. Aquatic Environment Management	Approved.
Agenda Item No. 7	Any other point with permission of chair:		
1.	Segregation and purification of native chicken of Kishanganj, Bihar <i>Budget Rs 119.6 Lakhs</i> <i>Duration: 3 Year</i>	Dr Birendera, HoD AGB, BVC.	The project needs to be revised showing revenue generation. Inputs from other sources may be taken.
2.	Genetic Diversity Analysis of Different Stocks of <i>Labeo rohita</i> (Rohu) of Simanchal and Mithila Region of Bihar (As per direction of State Deptt) <i>Budget Rs 4.0 Lakhs</i> <i>Duration: 1 Year</i>	Dr Mamta Singh CoF Kishanganj	Approved
3.	Strategies for improving the keeping quality of IVF produced embryo and assessment of subsequent development and pregnancies in bovine <i>Budget Rs 5.6 Lakhs</i> <i>Duration: 2 Year</i>	Dr Sumit Singhal, Assoc Prof.	Approved with recommendation that the expenditure may be met through ongoing RGM project.

General Comments of the house on all the new projects discussed.

- The project team to be rationalized by limited 2-3 Co-PIs in each project excepting a few projects encompassing larger areas with wider mandates
- The PI and Co-PI in each project to have defined share of time.
- Projects proposal should have quantifiable and measurable targets.
- Background and justification for each project should be clearly stated.
- The expected outcome should be clearly stated and may be focused on development of tangible outcome(s) for wider applications.

The meeting ended with vote of thanks presented by Dr. Pankaj Kumar Singh, Deputy DR, BASU, Patna.

Confirmed


Hon'ble Vice-Chancellor
Chairman


Member Secretary