

**Proceedings of the Seventh Meeting of Institutional Biosafety Committee (IBSC),  
C.V.Sc., AAU held on 21<sup>th</sup> November, 2024 under the Chairmanship of  
Dr. B.N. Saikia, Dean, Faculty of Veterinary Science, AAU**

**Members Present:**

1. Dr. N.N. Barman, Member Secretary
2. Dr. Utpal Bora, External Member
3. Dr. M. R. Khan, DBT Nominee
4. Dr. P. Borah, Member
5. Dr. R.A. Hazarika, Member
6. Dr. P. Mohan, Member
7. Dr. J. Das, Biosafety Officer
8. Dr. JadavSarma, Special Invitee
9. Dr. L. Buragohain, Member

The meeting started with welcome address from the Member Secretary, Dr.N.N Barman along with briefing about the agenda of the meeting. Then the Chairman cum Dean, Dr. B.N. Saikia gave his opening remarked to the house. After opening remarks from the Chairman, the house deliberated upon the following issues:

**1. Approval of proceeding of second IBSC meeting held on 11<sup>th</sup> May, 2023:**

The Member Secretary, Dr. N.N Barman briefed about the proceeding of last meeting which was accepted and approved by the house. Also Dr. Barman presented the action taken report on recommendations made by IBSC during the last visit to different laboratories of College of Veterinary science, AAU, Khanapara. Dr. Barman informed the house that shortly an awareness and sensitization programme related to Biosafety issues for the PG students and faculty members will be organized.

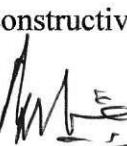
2. The chairman recommended the Head of the Pathology Department to repair the existing carcass disposal system present in the department as well as suggested to put a new proposal to the AAU authority for construction of a modern carcass disposal system which was accepted by the house.
3. The house suggested that the researchers working in BSL-3 must fill-up a format available with the in-charge BSL-3 laboratory of ADMaC, CVSc, Khanapara and a compliance report is to be submitted to IBSC.
4. The working guideline of the post-mortem hall was modified as per suggestion of the members and finally approved.
5. **Project proposal approval:**

Total 75 nos. of applications were received by IBSC for clearance and out of which 15 nos. were from PIs and remaining 60 nos. were from PG and Ph.D students. Each proposal was discussed in detail by the members particularly on the biosafety aspects in the light of *Regulations & Guidelines on Biosafety of rDNA Research & Biocontainment, 2017* and appropriate decisions were taken on approval/disapproval of the same. Detailed list of the proposals placed before the committee along with the final remarks of the committee is appended in Annexures I & II.

The meeting ended with vote of thanks from Dr. Lukumoni Buragohain, Member, IBSC who thanked all the members for their active participation in the meeting and for their constructive suggestions.

- Copy for information to the concern.

  
Member Secretary, IBSC  
C.V.Sc., AAU, Khanapara  
Guwahati-22

  
(B.N. Saikia)  
Chairman   
Dean  
F.V.Sc., A.A.U.  
Khanapara, Ghy-22

**Annexure I: Student's Research Proposals (Synopsis) submitted for IBSC approval**

<b>MVSc</b>							
<b>Sl. No.</b>	<b>Name of the student(s)</b>	<b>Title of the research Problem</b>	<b>Name of the Guide</b>	<b>Proposed Category of Experiment</b>	<b>Verified Category of Experiment</b>	<b>BSL level required</b>	<b>Remarks</b>
<b>Session 2022-23</b>							
<b>VETY. CLINICAL MEDICINE, ETHICS &amp; JURISPRUDENCE</b>							
1	Dr. Akshoy Kumar Roy 2022-VMK-12	A comprehensive study of fluid build-up in the body of dog and its therapeutic management	Dr. Bhaben Chandra Baishya	NA	NA	NA	Approved
<b>Session 2023-24</b>							
<b>POULTRY SCIENCE</b>							
1	Dr. Rija Saikia 2023-VMK-06	Effect of Dietary Supplementation of Fennel Seed ( <i>Foeniculum Vulgare</i> ) Powder on Growth Performance, Carcass Quality and Morphology of Small Intestine of Commercial Broiler Chicken	Dr. Joga Dev Mahanta	NA	NA	NA	Approved
2	Dr. Sachin Rajendra Pawar 2023-VMK-07	Effect of feeding bamboo ( <i>Bambusa tulda</i> ) leaf powder on productive performances of commercial broiler chicken	Dr. Rafiqul Islam	NA	NA	NA	Approved
3	Dr. Spandan Koch 2023-VMK-08	Effect of Moringa ( <i>Moringa oleifera</i> ) leaf extract on production performance and immunity of commercial broiler chicken	Dr. Mihir Sarma	NA	II	II	Approved Vaccine candidate should be used for immunity evaluation
<b>ANIMAL NUTRITION</b>							
4	Dr. Iqbal Hussain 2023-VMK-33	Effect of feeding Subabul ( <i>Leucaena leucocephala</i> ) leaf meal on growth performance and nutrient utilization in crossbred calves	Dr. (Mrs.) Lakhya Jyoti Borah	NA	NA	NA	Approved
5	Dr. Manash Pratim Mahanta	Performance of Broiler chicken fed on low protein and low energy diet supplemented with	Dr. Robin Bhuyan	NA	NA	NA	Approved

	2023-VMK-34	enzyme xylanase					
6	Dr. Saiful Islam 2023-VMK-35	Evaluation of Complete Feed Block containing different levels of leaf meal mixture on performance of Beetal X Assam local grower goat kids	Dr. Mridushmita Sonowal	NA	NA	NA	Approved
7	Dr. Akshay Anil Gurde 2023-VMK-36	Effect of feeding Subabul ( <i>Leucaena leucocephala</i> ) leaf meal on performance of growing-finishing crossbred pigs	Dr. Gunaram Saikia	NA	NA	NA	Approved
<b>VETY. PHYSIOLOGY</b>							
8	Dr. Rajashree Dutta Purkayastha 2023-VMK-31	Physio-Biochemical Studies in Early Pregnant Cross-bred Pigs	Dr. Simson Soren	NA	NA	NA	Approved
9	Dr. Netalu Puro 2023-VMK-38	Nanozinc supplementation on thermo-tolerance in goat kids	Dr. Sanjib Borah	NA	NA	NA	Approved
10	Dr. Thanggoulen Lotjem 2023-VMK-39	Studies on <i>in vitro</i> cultured duck embryonic fibroblast cells and assessment of pro inflammatory cytokine	Dr. Nikhil Chanra Nath	NA	II	II	Approved. Care should be taken to avoid hatchery borne infection
<b>VETY. PHARMACOLOGY</b>							
11	Dr. Udipta Bhuyan 2023-VMK-48	Evaluation of anti-inflammatory and ulcer healing property of <i>Zanthoxylum oxyphyllum</i> against DSS (Dextran sodium sulphate) induced ulcerative colitis in rats	Dr. Pritam Mohan	NA	NA	NA	Approved
<b>VETY. PARASITOLOGY</b>							
12	Dr. Madhurjya Nath 2023-VMK-51	Haemoparasites of goat with special reference to <i>Theileria</i> in Lakhimpur and Dhemaji districts of Assam	Dr. Gautam Bordoloi	NA	II	2	Approved
13	Dr. Mounami Hojai	<i>In vitro</i> Acaricidal Activity of few ITK based plants of Dima Hasao District, Assam	Dr. Kanta Bhattacharjee	NA	I	I	Approved. Researchers

	2023-VMK-52						should ensure proper disposal of ticks
<b>VETY. MEDICINE</b>							
14	Dr. Sahinaz Sereen 2023-VMK-17	Cystitis in dogs and its therapeutic management	Dr. Ditul Barman	NA	II	II	Approved
15	Dr. Krishna Kundu 2023-VMK-18	Feline panleukopenia and its therapeutic management in cats	Dr. Deepa Lahkar	NA	II	II	Approved
16	Dr. Kansam Ankita Singha 2023-VMK-19	Evaluation of antibacterial and immunomodulatory activity of polyherbal formulation in bovine subclinical mastitis	Dr. Mrinal Kr. Nath	NA	II	II	Approved
17	Dr. Preeti Kro 2023-VMK-20	KAP survey of dog bite in human and animals in rural areas of Kamrup district	Dr.(Mrs.) Jyoti B. Dutta	NA	NA	NA	Approved
18	Dr. Sayedul Islam 2023-VMK-21	Status of copper and its therapeutic management in Lakhimi cattle	Dr. Bendangla Changkija	NA	NA	NA	Approved
19	Dr. Vemulapalli Teja Sri 2023-VMK-22	Efficacy of different therapeutic regimens against babesiosis in dog	Dr. Bhaben Chandra Baishya	NA	II	2	Approved
20	Dr. Bhargab Jyoti Sarmah 2023-VMK-50	Prevalence and therapeutic management of <i>malassezia</i> dermatitis associated with hypothyroidism in dogs	Dr. Arabinda Phukan	NA	I	1	Approved
21	Dr. Dolly Satyendra Singh Thakur 2023-VMK-58	Chronic degenerative valvular heart disease in dogs and its therapeutic management.	Dr. Bendangla Changkija	NA	NA	NA	Approved
<b>VETY. PUBLIC HEALTH &amp; EPIDEMIOLOGY</b>							
22	Dr. Angad Singh Bhamrah 2023-VMK-10	Isolation and application of bacteriophage to reduce <i>Escherichia coli</i> contamination in chicken meat and to test efficacy of phage cocktail mediated biocontrol of <i>Escherichia coli</i> in chicken meat	Dr. Razibuddin Ahmed Hazarika	I	II	2	Approved

Dean  
F.V.Sc. A.A.U.  
Kharagpur, C.U.

VETY. PATHOLOGY (VPP)							
23	Dr. Gangotri Phukan 2023-VMK-41	Patho-morphological study and molecular detection of immunosuppressive viral diseases in poultry	Dr. Abhijit Deka	III	III	3	Provisionally approved, subjected to approval of RCGM
24	Dr. Ananya Deka 2023-VMK-42	Clinico-pathological studies of formalin toxicity in rats	Dr. Shameem Ara Begum	NA	NA	NA	Approved
25	Dr. Jyoti Doley 2023-VMK-43	Pathomorphology of goat mortality with special reference to viral pathogens	Dr. Shameem Ara Begum	III	II	2	Approved
26	Dr. Pallabi Das 2023-VMK-44	Pathomorphological and molecular characterization of Lumpy skin disease virus (LSDV) Infection in cattle	Dr. Biswajit Dutta	III	II	2	Approved
27	Dr. Sakshi Patel 2023-VMK-45	Patho-morphology of hepatorenal dysfunction associated with viral infections in broiler chicken	Dr. Biswajit Dutta	III	II	2	Approved
A.R.G.O.							
28	Dr. Atmika Barman 2023-VMK-24	Association of hemato-biochemical and endocrine factors with ovulatory failure in crossbred dairy cows and their therapeutic management	Dr. Dhrubajyoti Borpujari	NA	NA	NA	Approved
29	Dr. Shivani Gogoi 2023-VMK-25	Identification of some priming pheromones in bull's urine and its efficacy for augmenting reproductive efficiency in dairy cattle	Dr. Manjyoti Bhuyan	NA	NA	NA	Approved
30	Dr. Suresh Deori 2023-VMK-26	Optimizing dog semen preservation with membrane stabilizer and antioxidant	Dr. Manoj Kr. Kalita	NA	NA	NA	Approved
31	Dr. Shyamontica Mahanta 2023-VMK-27	Spatial changes in reproductive tract fluid of cattle during periovulatory period of estrous cycle	Dr. Mitali Dutta	NA	NA	NA	Approved
32	Dr. Prapti Nikunj Kumar Patel 2023-VMK-28	Effect of <i>Murraya Koenigii</i> (Curry) and <i>Aegle marmelos</i> (Bael) on reproductive performance of female <i>Mus musculus</i> (Mice)	Dr. Dipak Kumar Sarma	NA	NA	NA	Approved
ANIMAL GENETICS AND BREEDING							

33	Dr. Ritchelcy Kharchandy 2023-VMK-32	A study on the performance of Niang Megha and Wak Chambil pigs of Meghalaya under field condition	Dr. Galib Uz Zaman	NA	NA	NA	Approved
<b>VETY. MICROBIOLOGY</b>							
34	Dr. Kirtika Changkakoti 2023-VMK-13	Development of recombinant protein based competitive ELISA for simultaneous detection of Classical swine fever virus and African swine fever virus specific antibodies	Dr. Nagendra Nath Barman	III	III	3	Provisionally approved, subjected to approval of RCGM
35	Dr. Gangasani Sandeep K Reddy 2023-VMK-16	Isolation and Molecular Characterization of Lumpy Skin Disease (LSD) virus from Natural Outbreaks	Dr. D.P. Bora	III	III	3	Provisionally approved, subjected to approval of RCGM
<b>VETY. SURGERY AND RADIOLOGY</b>							
36	Dr. Khan Nargish Sultana 2023-VMK-23	Comparative evaluation of Titanium Dynamic Compression Plate (Ti-DCP) and Dynamic Compression plate (316L) for Management of Long Bone Fractures in Dog	Dr. Jodumoni Kachari	NA	NA	NA	Approved
37	Dr. Khemani Kanishka Kaushik 2023-VMK-53	Efficacy of Zinc Fluorophosphate bone graft on healing of long bone diaphyseal fractures in canine	Dr. Bitupona Deuri	NA	NA	NA	Approved
38	Dr. Meghna Sharma 2023-VMK-54	Evaluation of zolazepam-tiletamine and sevoflurane for general anaesthesia in domestic chicken ( <i>Gallus domesticus</i> )	Dr. Parsha Jyoti Nath	NA	NA	NA	Approved
39	Dr. Dickjyoti Bhuyan 2023-VMK-55	Manual small incision cataract surgery in dogs: a comparative study between removal of intact lens and fragmented lens	Dr. Dwijen Kalita	NA	NA	NA	Approved
40	Dr. V. Abhiram 2023-VMK-56	Adipose tissue derived mesenchymal stem cells in management of spinal cord injury in rabbit model	Dr. Chandan Kumar Singh	NA	II	II	Approved
41	Dr. Vivek Kumar Singh 2023-VMK-57	Prevalence of surgical affections in cattle and their surgico-medical management	Dr. Kushal Konwar Sarma	NA	NA	NA	Approved

VETY. EXTENSIN EDUCATION							
42	Dr. Aron Sinruwng Anal 2023-VMK-01	Consumers attitude towards pig welfare, pork quality, consumption and preferences in 2 states, Assam and Manipur.	Dr. Monosri Johari	NA	NA	NA	Approved
43	Dr. Larimon Shylla 2023-VMK-40	Factors affecting farm diversification and livelihood system of livestock farmers in West Jaintia Hills districts of Meghalaya	Dr. Leema Bora	NA	NA	NA	Approved
VETY. ANATOMY & HISTOLOGY							
44	Dr. Marshiya Jebin 2023-VMK-29	Postnatal development of gizzard and intestine of Pati Duck( <i>Anas platyrhynchos domesticus</i> ) of Assam	Dr. Anil Deka	NA	NA	NA	Approved
45	Dr. Mirmili Lekthepi 2023-VMK-30	Anatomical study on post-natal development of Urinary System of Pati Duck ( <i>Anas platyrhynchos domesticus</i> ) of Assam	Dr. Chandan Kumar Gautam	NA	NA	NA	Approved
LIVESTOCK PRODUCTION AND MANAGEMENT							
46	Dr. Ektiar Hossain Ahmed 2023-VMK-02	Comparison of Assam Hill Goats Reared in Field and Farm Condition	Dr. Adib Haque	NA	NA	NA	Approved
47	Dr. Jupismita Medhi 2023-VMK-03	Effect of stocking density on grouped finishing pigs' growth performance	Dr. Raj Jyoti Deka	NA	NA	NA	Approved
48	Dr. Prajyoti Rai 2023-VMK-05	Identifying priming pheromone for enhancing reproductive efficiency in sow	Dr. Raj Jyoti Deka	NA	NA	NA	Approved
49	Dr. Pobal Saikia 2023-VMK-09	Winter management of pre-weaned crossbred kids.	Dr. Deepandita Barmam	NA	NA	NA	Approved

Ph.D								
Sl. No.	Name of the student(s)	Roll No.	Title of the research Problem	Name of the Guide	Proposed Category of Experiment	Verified Category of Experiment	BSL level required	Remarks
<b>A.R.G.O</b>								
1	Dr. Nekibuddin Ahmed 2022-VDK-04		Identification of Estrus Biomarkers in Biological fluids of Lakhimi Cows Through Proteomics	Dr. Lakshya Jyoti Dutta	NA	NA	NA	Approved
2	Dr. Manna Baruti 2022-VDK-07		Studies on the effect of different media on OPU derived in vitro embryo production in Lakhimi cattle	Dr. Manjyoti Bhuyan	NA	II	2	Approved
<b>LIVESTOCK PRODUCTS TECHNOLOGY</b>								
3	Dr. Kuleswan Pame 2022-VDK-06		Development and quality assessment of pet-treat for dogs by incorporating processed poultry by-products and goat skin	Dr. Saurabh Kumar Laskar	NA	II	2	Approved
<b>VETY. MEDICINE</b>								
4	Dr. Sampurna Nand Yadav 2022-VDK-05		Comprehensive biomarker evaluation and tailored therapeutic approach for canine parvovirus infection	Dr. Arabinda Phukan	II	II	2	Approved
<b>VETERINARY ANATOMY &amp; HISTOLOGY</b>								
5	Dr. Snehangsu Sinha 2022-VDK-03		Comparative anatomical and immune-related gene expression studies in major lymphoid organs of backyard chickens	Dr. Manmath Talukdar	NA	NA	1	Approved
<b>VETERINARY PARASITOLOGY</b>								
6	Dr. Dhirashree Choudhury 2022-VDK-08		Hippoboscidae of Assam with special reference to vector potential of <i>Pseudolynchia</i> , <i>Lipoptena</i> and <i>Hippobosca</i> sp.	Dr. Saidul Islam	NA	II	2	Approved

<b>VETERINARY PUBLIC HEALTH</b>							
7	Dr. Uttam Rajkhowa 2019-VDK-35	Japanese encephalitis in pigs: Persistence, risk factors and their association with human cases	Dr. R.A. Hazarika	III	II	2	Approved
<b>VETERINARY PHYSIOLOGY</b>							
8	Dr. Lipika Sarma 2021-VDK- 18(II)	Fertility augmentation of crossbred heifers by supplementation with polyherbal mixture and minerals	Dr. Devojyoti Dutta	NA	I	I	Approved
<b>VETY. EPIDEMIOLOGY &amp; PREVENTIVE MEDICINE</b>							
9	Dr. Tinku Das 2021-VDK- 15(ii)	Epidemiology of animal rabies in fringe areas of Kaziranga National Park, Assam	Dr. Jyoti B Dutta	III	II	2	Approved. However, IBSC suggested that suspected samples should be collected by a pre-vaccinated registered veterinary practitioner and PPE kit must be used while sample collection
<b>VETY. MICROBIOLOGY (COTTON UNIVERSITY)</b>							
10	Kanya Parameshwari .M	Molecular characterization, immune response of Assam local isolate of duck enteritis virus and antiviral properties of Tinospora	Dr. N.N. Barman	II	II	2	Approved

		cordifolia (Willd.) Miers and Phlogacanthus thyrsiformis (Roxb.ex Hardw) Mabb						
--	--	--	--	--	--	--	--	--

5

Dean  
F.V.Sc., A.A.U.  
Khanapara, Ghy-22

**Annexure II: Externally funded Research Projects submitted by PIs for approval of IBSC**

<b>Sl. No.</b>	<b>Department</b>	<b>Title of Research Project</b>	<b>Name of the PI with designation</b>	<b>Funding Agency</b>	<b>Proposed Category of Experiment</b>	<b>Verified Category of Experiment</b>	<b>BSL level required</b>	<b>Remarks</b>
1.	Animal Biotechnology	Development of ZnO Nanoparticles and Herbal Extract Fortified Semen Extenders for Preservation of Boar Semen at Low Temperatures	Dr.Lukumoni Buragohain	ALSBT Hub, AAU, under DBT, Govt. of India	NA	NA	NA	Approved
2.	Anatomy and Histology	Formulation and immunological assessment of a few M-cell targeted bacterial protein delivery vehicles	Dr.Chandan Kumar Gautam	ALSBT Hub, AAU, under DBT, Govt. of India	I	II	2	Approved
3.	Veterinary Microbiology	All-India Network Project on Challenging and Emerging Diseases of Animals (AINP-CEDA)	Dr. Durlav Prasad Bora	ICAR, Govt of India, New Delhi	III	III	3	Provisionally approved, subjected to approval of RCGM
4	Veterinary Microbiology	Building a Surveillance Model for Detecting Zoonotic Spillover in Increased Animal-Human Interaction Settings Using a One Health Approach: A Study at Selected Slaughterhouses	Dr. Nagendra Nath Barman	ICMR, Govt of India, New Delhi	III	II	2	Approved
5.	Animal Biotechnology	Exploring Nanoparticle-Endometrial Interactions for Enhanced Swine Reproductive Health	Dr.Girin Hazarika	ALSBT Hub, AAU, under DBT, Govt. of India	NA	NA	NA	Approved
6.	Animal Biotechnology	Study of antifungal activity of biosurfactant against zoonotic dermatophytes and development of an effective anti-dermatophytic topical medicine	Dr.Chandana Malakar	DBT, Govt. of India, New Delhi	II	II	2	Approved
7.	Animal Biotechnology	Development of <i>Salmonella</i> Typhimurium Specific Chicken Egg YolkAntibodies: A Cost-Effective Approach for Disease Prevention and Antibiotic	Dr.Girin Hazarika	ALSBT Hub, AAU, under DBT, Govt. of India	II	II	2	Approved

		Resistance Mitigation						
8	Veterinary Microbiology	Efficacy of foot-and-mouth disease virus vaccine in pigs with different immunization regimen	Dr. Pankaj Deka	ICAR-NEH	II	II	2	Approved
10	Veterinary Microbiology	Development of an effective and stable inactivated multivalent whole virus vaccine against economically important major poultry viral diseases: Strategies to improve the breadth and protective efficacy	Dr. Pankaj Deka	Premium Chick Feeds Pvt. Ltd	II	II	2	Approved, however, project title to be corrected by PI and a new application to be submitted
11	ARGO	Preservation and Selling of Boar Semen	Dr.Dhrubajyoti Borpujari	AAU	NA	NA	NA	Approved
12	ARGO	Development of a Pheromone based spray for enhancing reproductive efficiency of Dairy Cattle of Assam	Dr.Manjyoti Bhuyan	AAU	NA	NA	NA	Approved
13	ARGO	Development of a rapid diagnosis kit for early detection of bovine uterine infection in field condition	Dr.Manjyoti Bhuyan	AAU	NA	II	2	Approved
14	ARGO	Implementation of IVF Technology under RGM at CVSc, AAU, Khanapara, Guwahati & Establishment of Professional training institute at LCVSc, AAU, Lakhimpur	Dr.Manjyoti Bhuyan	DAHD, Govt. of India	NA	II	2	Approved
15	ARGO	Development of a Portable Neonatal Intensive care Unit for Newborn Puppies	Dr. Manna Baruti	AAU	NA	NA	NA	Approved