

**Bangladesh Livestock Research Institute
Savar, Dhaka**

Total Proposed Projects of 2022-2023

	Name of the Discipline	Sl. no	Name of the Project	Remarks
A.	Animal & poultry breeding & genetics	1.	Conservation and Performance evaluation of F1 pure RCC cattle and their graded progeny at the community level.	
		2.	Upgrading indigenous cattle genetic resource through breeding, feeding and health management at Baghabari and Jashore	
		3.	Conservation and Improvement of Red Chittagong Cattle and Fodder Germplasm Bankat Regional station, Rajshahi	
		4.	Conservation and improvement of exotic germplasm and validation the performance of BLRI layer chicken-1(Shuvra) and BLRI layer chicken-2 (Shorna)	
		5.	Regional Livestock Research Reinforcement at Naikhongchari	
		6.	Conservation and improvement of native and exotic sheep germplasm at Bangladesh Livestock Research Institute Component A: EX-situ Conservation and improvement of native sheep at Bangladesh livestock research institute.	
			Component B: Exotic Sheep adaption and their crossbreeds production for the development of a meat type synthetic sheep breed.	
		7.	Development of climate resilience egg and meat type breed/strain using native germplasm	
			Component A: Conservation and improvement of indigenous chickens as worthy genetic resources of Bangladesh and development of the heat tolerant high yielding breed/strain.	
			Component B: Improvement of egg and meat producing duck through selection and breeding: Production performance (G8) and field trial of BLRI improved native duck	
			Component C: Development of meal type quail through appropriate breeding.	
		8.	Strategic development of beef cattle in Bangladesh	
		9.	Conservation and improvement of Native Cattle	
			(study-1) conservation and improvement of Munshiganj and North Bengal Grey cattle	
(Study-2) Introducing new gene pool in Pabna cattle Nuclcus breeding Hera at BLRI for their genetic improvement				

		Sl. no	Name of Project			
B.	Feeds, Fodder and Nutrition	10.	Improvement of feeds and fodder for development roughage based feeding strategy for dairy and Beef Cattle production			
		11.	Development of feeds and fodder data base for efficient feeding system for livestock production			
		12.	Development of TMR based Feeding Strategy for Dairy Cattle			
		13.	Determination of best management practice of Napier grass to increase the production performance of cattle.			
		14.	Development of banana plant based low cost feeding system for livestock			
		15.	Field validation of salt tolerant mutant lines of Napier fodder developed by BLRI			
		16.	Production and utilization of Gelation from bovine hides			
		17.	Study on feeding management guideline & nutrient requirement of BLRI improved native chicken and mitigation of green-house gas from poultry litter			
		17.	Component A: Performance, carcass characteristics and meat chemical composition of BLRI improved non descriptive desi (ND) and naked neck (NN) chickens fed graded levels of dietary energy and protein concentration			
		17.	Component B: On farm measurement of noxious greenhouse gases from poultry litter and their possible utilization			
		18.	Copra meal (Cosos nucifera) in lamb production and its impact on enteric gas emission (New)			
		19.	Fattening of Castrated Male Goat in Bangladesh			
		20.	Production of value added poultry meat and egg through dietary manipulation of selected herbal plants and isolation bioactive component.			
		C.	Biotechnology; Animal product processing & value addition; Environment & climate resilience; Waste management	Sl no.	Name of Project	
				21.	Establishment of semen bank for BLRI improved germplasm	
				22.	De novo Whole genome sequence of Indigenous chicken (Hilly Chicken) of Bangladesh and genome annotation to unveil genetic variations and adaptation at genome level.	
				23.	Production of oxalate free Napier grass through Gene Editing and Tissue culture Technique	
				24.	Establishment of Milk Processing Facilities for the development of premium dairy products	
		25.	Quality and safety assessment of milk and development of fortifying dairy products			

		26.	Assessment of Environment Stresses on Different Genetic Groups of Dairy Cattle and Development of their Mitigations Strategies	
		27.	Production of beta-cyclodextrin for the development of low cholesterol milk and milk products	
D.	Socio-economics; Farming system	Sl no.	Name of Project	
		28.	Production & Marketing of beef in different areas of Bangladesh	
		29.	Assessing Livestock rearing knowledge and practices in the coastal belt of Bangladesh	
		30.	Effects of climate change and climatic extremes on households' animal-based protein consumption: A panel data analysis	
		31.	Impact of training Given to Farmers on BLRI Technologies	
		32.	Need assessment, technology intervention and livestock advisory development for increasing resilience in livestock production system	
		33.	Piloting of "BLRI Technology Village" at BLRI Regional station	
E.	Animal & poultry diseases & health; Vaccine, biologics & kits/ tools	Sl no.	Name of Project	
		34.	Monitoring and evaluation of paste des petits Ruminants (PPR) virus isolates circulating in Bangladesh and development of vaccine seed	
		35.	Surveillance and molecular evaluation of avian influenza virus in Bangladesh	
		36.	Development of duck plague vaccine seed from circulating strain	
		37.	Genomic Mapping and Elucidating the Antimicrobial Resistance pathogens Evolution in Companion and Farm Animals	