

Proposed Research Program 2024-2025

Sl. No.	Program Area/Project/ Experiment Title & Duration	Major Objective	Expected output	Annual Budget (Thousand Tk.)
	BIRRI Regional Station, Bhanga			
	Program Area: Varietal development, Farming Systems Research, Crop-soil-water management, Socio economics and Technology transfer			
1.	Breeding for developing high yielding Transplanting Aman rice varieties (Hybridization)	To develop breeding population with desirable characters with emphasis on water stagnation tolerance, anaerobic tillering, earliness and good grain quality.	Breeding population with desirable characters e.g water stagnation tolerance, anaerobic tillering, earliness and good grain quality will be developed	100
2.	Breeding for developing high yielding shallow flooded Deep water rice varieties (Hybridization)	To develop breeding population with desirable characters of deep water Aman rice	Breeding population with desirable characters of deepwater Aman rice will be developed	150
3.	Breeding for developing Anoxia tolerant rice varieties	To develop high yielding anoxia and water stagnation tolerant rice genotypes for direct seeding condition to fit Onion/wheat- Jute- Relay T. Aman pattern	Breeding population high yielding anoxia and water stagnation tolerant rice genotypes will be developed	100
4.	Breeding of high yielding rice varieties for high input responsive in single Boro favorable ecosystem	To develop rice varieties for high input responsive in single Boro favorable ecosystem	Breeding population with desirable characters of high input responsive in single Boro favorable ecosystem variety will be developed	100
5.	Confirmation of F ₁ S	To confirm the crosses as true hybrid	The crosses as true hybrid will be confirmed	50

6.	FRGA	Generation Advancement	Generation will be advanced	50
7.	Line Stage Testing (LST)	Identification of uniform lines based on good plant type, flowering date and grain type	Advance breeding population with desirable characteristics will be developed	50
8.	Observational Yield Trial (OYT)	Selection of genetically fixed breeding lines with desirable characters of deep water/semi deepwater Aman rice having high yield with good plant type	Advance breeding population with desirable characteristics will be developed	50
9.	Collection and Characterization of local rice landraces	To collect and characterize local rice landraces for breeding purpose and conserve in the Genebank of BRRI	Seed and characterize rice landraces will be maintained	50
10.	Identification of QTLs associated with anaerobic germination (AG) tolerance using new anoxia tolerant donor	To identify novel QTLs associated with anaerobic germination (AG) tolerance using new anoxia tolerant donor(s)	Novel QTLs associated with anaerobic germination (AG) tolerance will be identified	100
11.	Demonstration trial of BRRI developed HYVs and Hybrids varieties	To disseminate the modern HYVs and Hybrids varieties in Faridpur region	Modern HYVs and Hybrids varieties in Faridpur region will be disseminated	155
12.	Farmer's Training and Field Day	To increase farmers knowledge	Farmers will know modern rice cultivation techniques	115
13.	Stability analysis of BRRI released rice varieties	To demonstrate the suitability of BRRI varieties in Faridpur region	Performance of BRRI varieties at Faridpur station will be identified	150
14.	Effects of planting time on yield of rice in char land area of Faridpur region	1. To achieve sustainable rice production at char land environment. 2. To adjust planting time for saving/protect <i>Aus</i> crop from early flood.	Planting time for saving/protect <i>Aus</i> crop from early flood will be adjusted.	100
15.	Effects of planting time on the performance of Modern BRRI varieties in Faridpur region	1. To find out the suitable planting time of modern rice varieties 2. To find out the cut of dates for of modern rice varieties	Planting time for saving/protect Boro crop from early flood will be adjusted.	100

		3. Yield loss assessment due to delay planting.		
16.	Development of weed control techniques in Boro-Fallow-Fallow cropping pattern	To develop cost effective and eco-friendly weed control practices for sustainable weed management in Boro-Fallow-Fallow cropping systems.	Cost effective and eco-friendly weed control practices in Boro-Fallow-Fallow cropping systems will be developed	100
17.	Effect of herbicide on Azolla infestation in Faridpur region	To reduce the abundance of Azolla at BRRI R/S Bhanga	Suitable herbicide for controlling Azolla will be identified.	150
18.	Effect of Trichocompost on nutrient and disease management in rice	1. To find out the efficacy of Trichocompost for nutrient management in rice 2. To find out the effectiveness of Trichocompost for disease management	Disease management and yield increase of rice by using Trichocompost.	150
19.	Evaluation of different Aman rice varieties under Wheat-Jute-T. Aman cropping pattern in Faridpur region	1. To find out the suitability of newly released Aman rice varieties under Wheat-Jute-T. Aman cropping pattern 2. To increase the system productivity and farmers' income	Suitable rice varieties will be found to fit under Wheat-Jute-T. Aman cropping pattern	200
20.	Validation of improved cropping pattern technology Boro-Transplanted deepwater Aman in the single Boro area of Faridpur region	To increase the system productivity and farmers' income	Single Boro area will be intensified with higher farmers' income	100
21.	Fine tuning of the improved cropping pattern technology Lentil + Muskmelon-Jute-T. Aman in Faridpur region	To increase the system productivity and farmers' income	System productivity and farmer's income will be increased	150