

Proposed Research Program 2025-2026

Name of Division/ Program Performing Unit: **BRRRI RS Rajshahi**

Sl. No.	Program Area/Project/ Experiment Title & Duration	Major Objective	Expected output	Annual Budget (Thousand Tk.)
1.0	Varietal Development Program			
1.1	- Hybridization (Backcross combination) - Hybridization	To develop BRRRI dhan75 types plant and Jira type's grain with lodging tolerant lines with backcross breeding. High yield and acceptable grain type with aroma.	Trait development /pre-breeding materials selection	50
1.2	List of F1's to be confirmed	High yield, PQR & acceptable grain type like Jira.	With desirable traits seventeen crosses will be made.	100
1.3	Growing RGA Population	Development of high yield and acceptable grain quality rice	Around 19,702 genotypes will be selected for further advancement	200
1.4	Observation Yield Trial (OYT-Raj PQR)	To select materials with higher yield potential and shorter growth duration than standard checks to initiate preliminary yield trial	Five categories of local Sampa Katari and four RGA developed line will be evaluated for OYT to development of Premium Quality Rice (PQR) with the standard checks BRRRI dhan75, BRRRI dhan87 and BRRRI dhan103.	250
1.5	Observation Yield Trial (OYT-Raj DTR)	To select materials with higher yield potential and shorter growth duration than standard checks to initiate preliminary yield trial	Fourteen RGA developed line will be evaluated for OYT to development of Drought Tolerant Rice (DTR) with the standard checks BRRRI dhan71 and BRRRI dhan103.	200
1.6	Regional Yield Trial	Evaluation of genotypes for specific and general adaptability	Around 25 RYT will be conducted to test the local adaptability	200
1.7	Collection and maintenance of local landraces	To characterize the local genotypes for Rajshahi region and to maintain the local germplasm for using in crossing program	Enriching local germplasm for further research advancement	100
	Crop-soil-water management			
1	Assessment of water-saving cropping patterns as an approach to mitigate	To evaluate the effectiveness of water-saving cropping patterns in reducing	Most Profitable cropping pattern in terms of water use and productivity	200.00

	climate change effects for sustain groundwater resource in the Barind region Duration: 2024-2026	groundwater use while maintaining or improving crop productivity in the Barind region	will be identified for Barind region and sustainable use of groundwater ensures long-term availability.	
	Rice Farming System			
2.	Long term sustainability evaluation of intensified cropping patterns in Barind region	To evaluate the soil health and crop productivity of intensified cropping patterns	Appropriate cropping pattern for specific region will be determined and Suitable variety will be identified for different cropping patterns.	100.0