

Proposed Research Program 2024-2025

Sl. No.	Program Area/Project/ Experiment Title & Duration	Major Objective	Expected output	Annual Budget (Thousand Tk.)
	Regional Station, Sonagazi			
1.	Program Area: Varietal Development			
1.1	Observational Yield Trial (OYT)	To select genetically fixed breeding lines for morpho-agronomic characters having high yield.	Development of high yielding (6 to 7 t/ha) Aus variety with good grain quality for Chattogram and Rangamati regions	15
1.2	Regional Yield Trial (RYT-1, 2, 3 & 4) in Aus 2024	To evaluate specific and general adaptability of the advance breeding lines as compared with standard checks in on-station.	Development of high yielding Aus variety with good quality for all region of Bangladesh	80
2.	Program Area: Pest Management			
2.1	Survey and monitoring of major rice insects in Feni district	1. To know the prevalence of Major rice insects 2. To assume the rice yield losses due to rice insects	Find out the prevalence of Major rice insects	20
3.	Program Area: Crop-Soil-Water management			
3.1	Optimizing seedling age of dibbled field for transplanting at Charland	1. To investigate the performance of splitting tillers in dibbled plot 2. To determine suitable seedling age for splitting tillers of dibbled field.	Appropriate seedling age of dibbled rice for transplanting at saline Charland	70
3.2	Optimizing Nitrogen Rate for dibbled Aus rice	1. To investigate the effect N rates on the performance of dibbling Aus rice 2. To determine suitable nitrogen rate for dibbling Aus rice	Appropriate Nitrogen Rate for dibbled Aus rice	70
3.3	Effect of establishment Methods on the Performance of	1. To compare different establishment methods of Aus rice	Appropriate Establishment Methods on the Performance of Aus Rice	70

	Aus Rice	2.To find out suitable establishment method of Aus rice for better performance		
4.	Program Area: Socio Economic and Policy			
4.1	Stability analysis of BRRRI released rice varieties	1.To investigate the stability of BRRRI varieties for specific season. 2.To find out location specific suitable variety(s).	Stability and suitability of BRRRI released rice varieties will be determined in the southern region.	50
5.	Program Area: Technology Transfer			
5.1	Adaptive Trials of PQR varieties (PQR-KGF project)	1. Validate the adaptability of modern rice varieties at different rice environments 2. Investigate the performance of newly released varieties compared to popular old mega variety 3. Select suitable variety(s) for target environments	Suitable variety(s) for target environments	100
5.2	Demonstration of Modern Rice Varieties: Total demo 255 in 305 bigha) GoB: 210 Demo Hybrid project:20 Demo Partner project: 25 Demo	To demonstrate and disseminate BRRRI varieties in greater Chattogram and Rangamati regions.	Rapid dissemination of newly released rice varieties to the farmers	2550
5.3	Farmer's and SAAOs training on modern rice cultivation and disease management technology Total: 16 (GoB & Partner)	To increase farmers/SAAOs/Officers knowledge		400
5.4	Field day on modern rice cultivation (GoB & Partner) Total: 16	To increase farmers knowledge		

5.6	TLS/Quality seed production 10 hacter	Utilize quality seed for conducting Research and Demonstration Provide seeds to different stakeholders to enhance dissemination of modern rice varieties.		150
	Season: Aman 2024-25			
	Program Area: Varietal Development			
1.1	Hybridization	Introgression of genes from diverged genetic background into rice varieties/lines for the improvement of standard T. Aman varieties	Development of photosensitive variety with higher yield (7.0 t/ha), slender grain, lodging tolerance for Chattogram and Rangamati regions	50
1.2	Confirmation of F ₁	To confirm the crosses as true hybrid	do	30
1.3	Regional Yield Trial (RYT-1- 15) in Aman 2024	To evaluate specific and general adaptability of the advance breeding lines as compared with standard checks in on- station.	Development of high yielding Aman variety with good quality for all region of Bangladesh	300
1.3	Backcross breeding	To introgress the desirable traits into recurrent parents	do	30
	Program Area: Pest Management			
2.1	Survey and monitoring of major rice insects in Sonagazi district	1. To know the prevalence of Major rice insects 2. To assume the rice yield losses due to rice insects	Find out the prevalence of Major rice insects	10
2.2	Reduction of insecticide use in rice production for safe food production	1.To manage insect pests with less or no use of insecticide. 2. To compare insect pests and natural enemy status in insecticide free and insecticide spray field. 3. To investigate the compensation abilities of different rice varieties due to	Minimum use of insecticide to safeguard for food production	50

		insect damage.		
	Program Area: Crop-Soil-Water management			
3.1	Effect of planting date on the performance of modern rice varieties at southeast Bangladesh	1. To find out the optimum planting date of the rice varieties for better performance 2. To investigate the climatic effect on crop establishment, growth and yield	Appropriate time of planting on new rice varieties will be determined;	20
3.2	Optimizing management options for aged seedlings of short duration rice variety	1.To investigate the effect of management options on yield and yield components of short duration rice variety. 2.To find out suitable management option for better performance of aged seedling of short duration rice.	Suitable management options for aged seedlings of short duration rice variety	20
3.3	Effect of late Transplanting on the performance of high yielding short duration rice	To investigate the effect of late transplanting on yield and yield components of the rice genotypes. To identify rice genotypes best suited for late transplanting.	Suitable varieties/lines for late transplanting.	30
3.4	Optimizing Seedling age of high yielding short duration rice	1.To investigate the effect of seedling age on the performance of BRRI dhan75 2.To find out suitable seedling age at transplanting of high yielding short duration rice.	Suitable seedling age of high yielding short duration rice	20
3.5	Determination of potassium rate for saline affected Charland	1. To investigate the performance of modern rice variety under in dibbling planting 2. To determine suitable nitrogen rate for better performance of dibbled rice.	Appropriate potassium rate will be identified in southern region	20
	Program Area: Socio			

	Economic and Policy			
4.1	Stability analysis of BRRRI released rice varieties	1.To investigate the stability of BRRRI varieties for specific season. 2.To find out location specific suitable variety(s).	Stability and suitability of BRRRI released rice varieties will be determined in the southern region.	50
	Program Area: Technology Transfer			
5.1	Adaptive Trials of PQR varieties (PQR-KGF project) Demo=60	1. Validate the adaptability of modern rice varieties at different rice environments 2. Investigate the performance of newly released varieties compared to popular old mega variety 3. Select suitable variety(s) for target environments		100
5.2	Demonstration of Modern Rice Varieties: Total demo 490 in 600 in bigha) GoB: 270 Demo Hybrid project:20 Demo Partner project: 200 Demo	To demonstrate and disseminate BRRRI varieties in greater Chattogram and Rangamati regions.		
5.3	Farmer's and SAAOs training on modern rice cultivation and disease management technology (GoB & Partner)	To increase farmers/SAAOs/Officers knowledge		
5.4	Field day on modern rice cultivation (GoB &Partner)	To increase farmers knowledge		
5.5	Breeder seed production 5 hacter	Produce breeder seeds for further seed multiplication. Enrich seed stock of modern rice varieties.		700

5.6	TLS/Quality seed production 3 hacter	Utilize quality seed for conducting Research and Demonstration Provide seeds to different stakeholders to enhance dissemination of modern rice varieties.		420
	Season: Boro 2024-25			
	Program Area: Varietal Development			
1.1	Hybridization	Introgression of genes from diverged genetic background into rice varieties/lines for the improvement of standard Boro varieties	Development of salt tolerant variety with high yield (8.5 t/ha), short duration, slender grain, lodging tolerant & disease resistant	50
1.2	Confirmation of F ₁	To confirm the crosses as true hybrid	do	30
1.3	Regional Yield Trial (RYT-1- 20) in Aman 2024	To evaluate specific and general adaptability of the advance breeding lines as compared with standard checks in on- station.	Development of high yielding Boro variety with good quality for all region of Bangladesh	400
	Program Area: Pest Management			
2.1	Survey and monitoring of major rice insects in Sonagazi district	1. To know the prevalence of Major rice insects 2. To assume the rice yield losses due to rice insects	Find out the prevalence of Major rice insects	10
2.2	Reduction of insecticide use in rice production for safe food production	1.To manage insect pests with less or no use of insecticide. 2. To compare insect pests and natural enemy status in insecticide free and insecticide spray field. 3. To investigate the compensation abilities of different rice varieties due to insect damage.	Minimum use of insecticide to safeguard for food production	50

	Program Area: Crop-Soil-Water management			
3.1	Effect of planting date on the performance of modern rice varieties at southeast Bangladesh	<ol style="list-style-type: none"> 1. To find out the optimum planting date of the rice varieties for better performance 2. To investigate the climatic effect on crop establishment, growth and yield 	Appropriate time of planting on new rice varieties will be determined;	20
3.2	Management Options for Controlling Algae and Azolla in rice field	<ol style="list-style-type: none"> 1. To evaluate the management options for Algae and Azolla in rice field. 2. To find out suitable management option(s) to control Algae and Azolla. 	Suitable management options for Controlling Algae and Azolla in rice field	20
3.3	Determination of potassium rate for saline affected Charland	<ol style="list-style-type: none"> 1. To investigate the performance of modern rice variety under in dibbling planting 2. To determine suitable nitrogen rate for better performance of dibbled rice. 	Appropriate potassium rate will be identified in southern region	20
3.4	Optimizing Nitrogen rate for Bangabandhu dhan100	<ol style="list-style-type: none"> 1. To evaluate the responses of Bangabandhu dhan100 under a range of nitrogen supplies 2. To investigate the nitrogen use efficiency 3. To find out optimum nitrogen requirement for maximum yield of Bangabandhu dhan100 	Appropriate nitrogen rate will be identified	20
	Program Area: Socio Economic and Policy			
4.1	Stability analysis of BRRI released rice varieties	<ol style="list-style-type: none"> 1. To investigate the stability of BRRI varieties for specific season. 2. To find out location specific suitable variety(s). 	Stability and suitability of BRRI released rice varieties will be determined in the southern region.	50

	Program Area: Technology Transfer			
5.1	Adaptive Trials of PQR varieties (PQR-KGF project) Demo=60	1. Validate the adaptability of modern rice varieties at different rice environments 2. Investigate the performance of newly released varieties compared to popular old mega variety 3. Select suitable variety(s) for target environments		100
5.2	Demonstration of Modern Rice Varieties: Total demo 490 in 600 in bigha) GoB: 270 Demo Hybrid project:20 Demo Partner project: 200 Demo	To demonstrate and disseminate BIRRI varieties in greater Chattogram and Rangamati regions.		
5.3	Farmer's and SAAOs training on modern rice cultivation and disease management technology (GoB & Partner)	To increase farmers/SAAOs/Officers knowledge		
5.4	Field day on modern rice cultivation (GoB & Partner)	To increase farmers knowledge		
5.5	Breeder seed production 7 hacter	Produce breeder seeds for further seed multiplication. Enrich seed stock of modern rice varieties.		980
5.6	TLS/Quality seed production 5 hacter	Utilize quality seed for conducting Research and Demonstration Provide seeds to different stakeholders to enhance dissemination of modern rice varieties.		700