

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	PU-7 Variety, Seed treatment, Bio-fertilizer, Micronutrients, Sea Weed Extract, PPC	41,300/-	66,150/-	24,850/-	1.6	42,800/-	73,080/-	30,280/-	1.7

B. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (kg)	Produce distributed to other farmers (kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/household)
1	Blackgram PU-7	46,400	167	63.00	15	Nil	To fulfill the household need	13-14

Pulses Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	PU-7 Variety, Seed treatment, Bio-fertilizer,	Befitting with the existing farming system.	-	Seed treatment and Bio-fertilizer both are very low cost inputs, so	High rain fall adversely affect the crop in some cases	Yes	Nil

	Micronutrients, Sea Weed Extract, PPC			technology may sustain.			
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C. Specific Characteristics of Technology and Performance

Crop	Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Blackgram	Variety: PU-7	Good	10.4 % yield increased than the locally used variety Sarada.	Variety is accepted by the farmers
	Seed treatment: Inoculation of seed with <i>Rhizobium</i>	Nitrogen fixation @ 20-30 kg / ha Yield increase upto 10.4 %	Highly recommended (<i>Rhizobium</i> @ 1.5 kg mixed with sticker and make a solution with 250 ml of water (for 1 ha of land). Mix this solution slowly with 30 kg of seed, so that a homogenous layer evenly mixes with all the seed. After drying under shade, sow the seed as early as possible. Use of sticker increase its efficiency) *Safe for environment	Very low cost input (@ Rs. 80/- / kg)
	Seaweed extracts: diluted extracts of seaweed are applied to promote growth, prevent pests and diseases and improve the quality of the products. Seaweed contains phosphorous, which helps plants develop healthy and strong root systems. Seaweed and seaweed-derived products have been widely used as bio stimulants in crop production due to presence of multiple growth regulators such as cytokinin, auxins, gibberellins, betaines, as well as presence of macronutrients such as Ca, K, P, and micronutrients like Fe, Cu, Zn, B, Mn, Co and Mo, which are necessary for	Some beneficial effects of seaweed extract on plants: such as early seed germination and establishment, better crop performance and yield, inducing resistance to biotic and abiotic stress and many more.	Highly recommended 2 l / ha, i.e. 2 ml / l of water with two sprays, one just after germination and other at 21 DAS)	Very low cost but highly effective input

	plant growth and development.			
	Micronutrients Boron (B), Copper (Cu), Iron (Fe), Manganese (Mn), Molybdenum (Mo), Zinc (Zn), Sulphur (S) and Potassium (K).	Micronutrients are important for plant growth, as plants require a proper balance of all the essential nutrients for normal growth and optimum yield. It increase photosynthetic activity, reduce flower drops and increase yield	Highly recommended 1 kg / ha, i.e. 2g / l of water with one sprays at just before flowering	Very low cost but highly effective input
	PPC (Carbendazim+Mancozeb and Emamectin Benzoate)	Reduce disease-pest and increase yield	Highly recommended	Very much usefull

D. Extension activities under CFLD conducted till dates:

Blackgram

Sl. No.	Extension Activities organized	Date and place of activity		Number of farmer attended
		Date	Place	
1	Farmers Training	09.07.2025	Kastodanga, Haringhata	29
2		17.07.2025	Baliadanga, Ranaghat -II	24
3		28.07.2025	Panchberia, Ranaghat-II	29
4		07.08.2025	Kundulia, Haringhata	38
5		14.08.2025	Kanaipur, Ranaghat-II	44

Blackgram



Seed distribution



Off-campus training



Initial stage



Input distribution



Field day



Pod development stage



Demonstration of Krishi Mapper App

CLUSTER FRONTLINE DEMONSTRATION OF KHARIF PULSES (2023-2024) PERFORMANCE DATA

- 1 **Name of KVK:** Nadia Krishi Vigyan Kendra 2 **Year of establishment:** 2004
 3 **Host Institution:** Bidhan Chandra Krishi Viswavidyalaya 4 **Address:** Gayeshpur, Nadia, West Bengal, Pin-741 234
 5 **District:** Nadia 6 **State:** West Bengal

7. Performance of the demonstration:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized(%)		
				District Yield* (D)	State Yield* (S)	Potential yield (P)				Max	Min.	Av.	D	S	P
1	Blackgram	Sarada	10.2	7.8	7.7	15.0	PU-31 Variety, Seed treatment, Bio-fertilizer, Nano Urea, Micronutrients, PPC	112	20.0	12.2	10.4	11.2	43.6	45.4	-23.3

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	PU-31 Variety, Seed treatment, Bio-fertilizer, Nano Urea, Micronutrients, PPC	33,300/-	54,060/-	20,760/-	1.6	34,500/-	59,360/-	24,860/-	1.7

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (kg)	Produce distributed to other farmers (kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/household)
1	Blackgram PU-31	22,400	200	53.00	15	Nil	To fulfill the household need	13-14

Pulses Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	PU-31 Variety, Seed treatment, Bio-fertilizer, Nano Urea, Micronutrients, PPC	Befitting with the existing farming system.	-	Seed treatment and Bio-fertilizer both are very low cost inputs, so technology may sustain.	High rain fall adversely affect the crop in some cases	Yes	Nil

D. Specific Characteristics of Technology and Performance

Crop	Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Blackgram	Variety- PU-31	Good	9.8 % yield increased than the locally used variety Sarada.	Variety is accepted by the farmers
	Seed treatment: Inoculation of seed with <i>Bio-fertilizers</i> Consortia (<i>Rhizobium</i> , <i>Azotobacter</i> , <i>Azospirillum</i> , <i>Phosphobacteria</i> , <i>Potash Solubilizing Bacteria</i>)	Nitrogen fixation @ 20-30 kg / ha Yield increase upto 9.8%	Highly recommended (Liquid Biofertilizer Consortia @ 2 l and make a solution with 2-3 l of water (for 1 ha of land). Mix this solution slowly with 30 kg of seed, so that a homogenous layer evenly mixes with all the seed. After drying under shade, sow the seed as early as possible. Use of sticker increase its efficiency) *Safe for environment *Also suitable for soil application of 1 ha of land (@ 2 l of Liquid Biofertilizer Consortia mix with 250 kg of well rotten cow dung manure and spread homogenously in field before final land prepatation	Very low cost input
	Nano Urea	Supply required nitrogen during flowering and reduced flower drop	Highly recommended (will be applied @ 4ml/l of water before flowering) *Nano Urea contains 4% total nitrogen (w/v). *Nano nitrogen particle size varies from 20-50 nm. These particles are evenly dispersed in water. *More surface area (10,000 times over 1mm urea prill) *they are nontoxic and less harmful to environment and humans, they minimize	Very low cost input

			cost and maximize profit	
	PPC (Acetamiprid 20% SP and Emamectin Benzoate)	Reduce insect pest and increase yield	Highly recommended	Very much usefull
	Micronutrients Boron (B), Copper (Cu), Iron (Fe), Manganese (Mn), Molybdenum (Mo), Zinc (Zn), Sulphur (S) and Potassium (K).	Micronutrients are important for plant growth, as plants require a proper balance of all the essential nutrients for normal growth and optimum yield. It increase photosynthetic activity, reduce flower drops and increase yield	Highly recommended 1 kg / ha, i.e. 2g / l of water with one sprays at 21 DAS)	Very low cost but highly effective input

E. Extension activities under FLD conducted till dates:

Blackgram

Sl. No.	Extension Activities organized	Date and place of activity		Number of farmer attended
		Date	Place	
1	Farmers Training	03.08.2023	Kastodanga, Haringhata	21
2		10.08.2023	Arbolda, Santipur	11
3		10.08.2023	Kadampur, Santipur	10
4		12.09.2023	Satsimulia, Haringhata	13
5		19.09.2023	Arbolda, Santipur	15

Blackgram



Seed distribution



Off-campus training



Initial stage



Input distribution



Field day



Pod development stage



Demonstration of Krishi Mapper App with RAWE Students

CLUSTER FRONTLINE DEMONSTRATION OF KHARIF PULSES (2022-2023) PERFORMANCE DATA

- 1 **Name of KVK:** Nadia Krishi Vigyan Kendra 2 **Year of establishment:** 2004
 3 **Host Institution:** Bidhan Chandra Krishi Viswavidyalaya 4 **Address:** Gayeshpur, Nadia, West Bengal, Pin-741 234
 5 **District:** Nadia 6 **State:** West Bengal

7. Performance of the demonstration:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized(%)		
				District Yield* (D)	State Yield* (S)	Potential yield (P)				Max	Min.	Av.	D	S	P
1	Blackgram	Sarada	10.1	7.8	7.7	15.0	PU-31 Variety, Seed treatment, Bio-fertilizer, Humic and Fulvic acid, PPC	121	20.0	12.4	10.1	11.4	46	54	-24

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	PU-31, Variety, Seed treatment, Bio-fertilizer, Humic and Fulvic acid, Micronutriens, PPC	32,400/-	52,520/-	20,120/-	1.6	33,500/-	59,280/-	25,780/-	1.8

B. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (kg)	Produce distributed to other farmers (kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/ household)
1	Blackgram PU-31	22,800	188	52.00	15	Nil	To fulfill the household need	13-14

Pulses Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	PU-31, Variety, Seed treatment, Bio-fertilizer, Humic and Fulvic acid, Micronutriens, PPC	Befitting with the existing farming system.	-	Seed treatment and Bio-fertilizer both are very low cost inputs, so technology may sustain.	High rain fall adversely affect the crop in some cases	Yes	Nil

C. Specific Characteristics of Technology and Performance

Crop	Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Blackgram	Variety- PU-31	Good	12.9 % yield increased than the locally used variety Sarada.	Variety is accepted by the farmers
	Seed treatment: Inoculation of seed with Bio-fertilizers (<i>Rhizobium</i>)	Nitrogen fixation @ 20-30 kg / ha Yield increase upto 16%	Highly recommended (<i>Rhizobium</i> @ 0.75 kg / 22.5kg of seed requiring for one hectare)	Very low cost input
	Humic and Fulvic acid	Better root growth	Highly recommended (Soil application of Humic and Fulvic acid with cow dung manure @ 1.9 l / ha during final land preparation)	Very low cost input
	PPC	Reduce insect pest and increase yield	Highly recommended	Very much usefull
	Micronutrients	Increase photosynthetic activity, reduce flower drops and increase yield	Highly recommended (2 kg / ha, i.e. 2g / l of water with two sprays 21 DAS and before flowering)	Very low cost but highly effective input

D. Extension activities under FLD conducted till dates:

Blackgram

Sl. No.	Extension Activities organized	Date and place of activity		Number of farmer attended
		Date	Place	
1	Farmers Training	28.07.2022	Hatishala, Krishnanagar-II	10
2		04.08.2022	Arbolda, Santipur	10
3		10.08.2022	Gontra, Chakdaha	09
4		17.08.2022	Kadambogachi, Chakdaha	07
5		19.08.2022	Satsimulia, Haringhata	09
6		01.09.2022	Nadia KVK	40
7		19.09.2022	Hatishala, Krishnanagar-II	10
8		26.09.2022	Arbolda, Santipur	10

Blackgram



Seed distribution



Off-campus training



Initial stage



Input distribution



Field day



Pod development stage

CLUSTER FRONTLINE DEMONSTRATION OF KHARIF PULSES (2021-2022) PERFORMANCE DATA

- 1 Name of KVK: Nadia Krishi Vigyan Kendra 2 Year of establishment: 2004
 3 Host Institution: Bidhan Chandra Krishi Viswavidyalaya 4 Address: Gayeshpur, Nadia, West Bengal, Pin-741 234
 5 District: Nadia 6 State: West Bengal

7. Performance of the demonstration:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized(%)		
				District Yield* (D)	State Yield* (S)	Potential yield (P)				Max	Min.	Av.	D	S	P
1	Blackgram	Sarada	10.1	7.8	7.7	15.0	55	10.0	12.8	10.2	11.7	50	52	-22	
2									12.6	10.4	11.9	53	55	-21	

Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	PU-31 Variety, Seed treatment, Bio-fertilizer, Humic and Fulvic acid, PPC	30,100/-	48,480/-	18,380/-	1.6	30,500/-	56,160/-	25,660/-	1.8
2	IPU-02-43 Variety, Seed treatment, Bio-fertilizer, Humic and Fulvic acid, PPC	30,100/-	48,480/-	18,380/-	1.6	30,500/-	57,120/-	27,350/-	1.9

B. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (kg)	Produce distributed to other farmers (kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/household)
1	Blackgram PU-31	11,700	213	48.00	15	Nil	To fulfill the household need	13-14
2	Blackgram IPU-02-43	11,900	183	48.00	15	Nil	To fulfill the household need	13-14

Pulses Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	PU-31, IPU-02-43 Variety, Seed treatment, Bio-fertilizer, Humic and Fulvic acid, PPC	Befitting with the existing farming system.	-	Seed treatment and Bio-fertilizer both are very low cost inputs, so technology may sustain.	High rain fall adversely affect the crop in some cases	Yes	Nil

C. Specific Characteristics of Technology and Performance

Crop	Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Blackgram	Variety- PU-31	Good	15.8 % yield increased than the locally used variety Sarada.	Variety is accepted by the farmers
	Variety- IPU-02-43	Good	17.8 % yield increased than the locally used variety Sarada.	Variety is accepted by the farmers
	Seed treatment: Inoculation of seed with Bio-fertilizers (<i>Rhizobium, PSB</i>)	Nitrogen fixation @ 20-30 kg / ha Yield increase upto 16%	Highly recommended (<i>Rhizobium</i> @ 0.75 kg / 22.5kg of seed requiring for one hectare)	Very low cost input
	Humic and Fulvic acid	Better root growth	Highly recommended (Soil application of Humic and Fulvic acid with cow dung manure @ 1.9 l / ha during final land perparation)	Very low cost input
	PPC	Reduce insect pest and increase yield	Highly recommended	Very much usefull

D. Extension activities under FLD conducted till dates:

Blackgram

Sl. No.	Extension Activities organized	Date and place of activity		Number of farmer attended
		Date	Place	
1	Farmers Training	02.08.2021	Naduria, Hanskhali	11
2		09.08.2021	Anandanagar, Krishnanagar-II	17
3		10.08.2021	Hatisala(N), Krishnanagar-I	13
4		16.08.2021	Arbolda, Santipur	16
5		09.09.2021	Arbolda, Santipur	14



Blackgram



Seed distribution



Off-campus training



Initial stage



Input distribution



Field day

Pod development stage