CLUSTER FRONTLINE DEMONSTRATION OF *RABI* PULSES (2024-2025) PERFORMANCE DATA REPORTING

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 (q/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	Lentil	Local	10.6	11.1	9.7	15.0	**L-4717 (Pusa Ageti)** *Seed *Bio-fertilizers *Micronutriens *Humic and Falvic Acid *PPC	245	50.0	13.5	10.6	11.9	6.7	16.8	-26.0

***DDA (Admin), Nadia**

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	**L-4717 (Pusa Ageti)** *Seed *Bio-fertilizers	35,575	63,600	28,025	1.8	39,175	73,780	34,608	1.9

	*Micronutriens *Humic and Falvic Acid *PPC								

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/house hold)
1	**Lentil L-4717 (Pusa Ageti)**	59,500	243	62	20	Nil	To fulfill the household need	14-16

D. 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	**L-4717 (Pusa Ageti)** *Seed *Bio-fertilizers *Micronutriens *Humic and Falvic Acid *PPC	Befitting with the existing farming system	Timely supply of quality seed	Seed treatment, Bio-fertilizer, Micronutrient, PPC all are very low cost inputs, so technology may sustain.	No	Yes	*Farmers are happy with the total packages. They want to replace *Boro* Paddy with Lentil.

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Variety : **L-4717 (Pusa Ageti)**	Variety is very good and befitting with the existing farming system	**9.4%** yield increased of the variety **Pusa Ageti** than the locally used variety by the farmers	Variety is accepted by the farmers
Seed treatment: Inoculation of seed with ***Rhizobium***	Nitrogen fixation @ 20-30 kg / ha Yield increase upto 9.4%	Highly recommended (***Rhizobium*** @ 1.5 kg / 30 kg of seed requiring for one hectare)	Very low cost input (@ Rs. 80/- per kg)
PSB	Soil application of **PSB** with cow dung manure @ 1.5 kg / ha during final land preparation	PSB play a crucial role in soil by solubilizing otherwise unavailable phosphorus, increasing its availability for plant uptake, and enhancing overall plant growth and crop yields	Very low cost imput (@ Rs. 80/- per kg)
Humic and Fulvic acid	Soil application of **Humic and Fulvic acid** with cow dung manure @ 2 *l* / ha during final land preparation	Gets quickly absorbed in plants and participates in the nutritional bio-chemical process as well as develops the inherent strength to fight against adverse weather conditions and increase the yield.	*Very low cost imput *Compatible with other agrochemicals and safe for environment *Also suitable for foliar application (@ 2 to 3 ml / *l* of water) and seed treatment (@ 10 ml / kg of seed)
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
Thiophanate-methyl	Fungicide effective for controlling diseases (Applied @ 2 g/ l)	Reduces Fungal Diseases	Very low cost but highly effective input
Thiamethoxam	Systemic insecticide effective for controlling Sucking pests and aphids (Applied @ 1.0 ml/ l)	Reduces various sucking pests and aphid attack	Very low cost but highly effective input
Carbendazim 50% WP	Used as seed treatment chemicals @ 3g / kg of seed	Reduces Fungal Diseases	Very low cost but highly effective input

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity		Number of farmer attended
		Date	Place	
1	Farmers Training	11.11.2024	Sultanpur, Nakashipara	24
2		12.11.2024	Kechuadanga, Shikarpur	14
3		20.01.2025	Nakashipara	24
4		22.01.2025	Charpanpara, Santipur	19
5		29.01.2025	Mollaber, Santipur	23
6		07.02.2025	Mollaber, Santipur	23
7		09.05.2024	Mollaber, Santipur	22

Input distribution

Seed distribution

Growth stage

Flowering stage

Harvesting Stage

Growth stage

Field Day

Field Day

11. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Lentil	i) Critical input	3,88,125.00	3,75,012.00	13,113.00*
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total			

*** Note: Total Committed Liability is Rs. 1,22,206/- (13,113/- + 1,09,093/-) for FY 202502026**

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Signature of Head of Organization

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Signature of In-Charge

CLUSTER FRONTLINE DEMONSTRATION OF *RABI* PULSES (2022-2023) PERFORMANCE DATA REPORTING

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7. Performance of the demonstration:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (q/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	Lentil	Local	10.5	11.1	9.7	15.0	**L-4717 (Pusa Ageti)** *Seed *Bio-fertilizer *Micronutriens *Humic and Falvic Acid *PPC	56	10.0	12.0	10.6	11.3	1.8	16.5	-24.6

***DDA (Admin), Nadia**

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	**L-4717 (Pusa Ageti)** *Seed *Bio-fertilizer	27,600	52,500	24,900	1.9	28,400	56,500	28,100	2.0

	*Micronutriens *Humic and Falvic Acid *PPC								

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/house hold)
1	**Lentil L-4717 (Pusa Ageti)**	11,300	201	50	20	Nil	To fulfill the household need	14-16

D. 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	**L-4717 (Pusa Ageti)** *Seed *Bio-fertilizer *Micronutriens *Humic and Falvic Acid *PPC	Befitting with the existing farming system	Timely supply of quality seed	Seed treatment, Bio-fertilizer, Micronutrient, PPC all are very low cost inputs, so technology may sustain.	No	Yes	*Farmers are happy with the total packages. They want to replace *Boro* Paddy with Lentil.

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Variety : **L-4717 (Pusa Ageti)**	Varieties are very good and befitting with the existing farming system	**7.6 %** yield increased of the variety **Pusa Ageti** than the locally used variety by the farmers	Varieties are accepted by the farmers
Seed treatment: Inoculation of seed with ***Rhizobium***	Nitrogen fixation @ 20-30 kg / ha Yield increase upto 15.6 %	Highly recommended (***Rizobium*** @ *0.75* kg / 30 kg of seed requiring for one hectare)	Very low cost imput
Humic and Fulvic acid	Soil application of **Humic and Fulvic acid** with cow dung manure @ 1.9 *l* / ha during final land preparation	Gets quickly absorbed in plants and participates in the nutritional bio-chemical process as well as develops the inherent strength to fight against adverse weather conditions and increase the yield.	*Very low cost imput *Compatible with other agrochemicals and safe for environment *Also suitable for foliar application (@ 2 to 3 ml / *l* of water) and seed treatment (@ 10 ml / kg of seed)
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 imput
Chlorothalonil	Fungicide effective for controlling diseases (Applied @ 2 g/ l)	Reduces Fungal Diseases	Very low cost but highly effective input
Thiophanate-methyl	Fungicide effective for controlling diseases (Applied @ 2 g/ l)	Reduces Fungal Diseases	Very low cost but highly effective input
Thiamethoxam	Systemic insecticide effective for controlling Sucking pests and aphids (Applied @ 1.0 ml/ l)	Reduces various sucking pests and aphid attack	Very low cost but highly effective input

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity		Number of farmer attended
		Date	Place	
1	Farmers Training	15.11.2022	Arbolda, Santipur	12
2		16.11.2022	Kadampur, Santipur	11
3		12.12.2022	Bhaduri Chakdah	33
4		12.12.2022	Bhaduri Chakdah	23
5		13.02.2023	Arbolda, Santipur	22
6		25.04.2023	Arbolda, Santipur	15

Input distribution

At flowering stage

Initial growth stage

Growth stage

Field Day

Seed distribution