

CLUSTER FRONTLINE DEMONSTRATION OF KHARIF PULSES (2019-20) PERFORMANCE DATA

REPORTING FORMAT KVK WISE

- 1. Name of KVK:** Rathindra Krishi Vigyan Kendra
- 2. Year of establishment:** 1994
- 3. Host Institution:** Visva-Bharati University, Santiniketan, Dist. – Birbhum, Pin. – 731235, West Bengal.
- 4. Address of KVK:** Rathindra Krishi Vigyan Kendra, Palli Siksha Bhavana, Visva-Bharati, Sriniketan, P.O. – Sriniketan, Dist. – Birbhum, Pin. – 731236, West Bengal. Phone: 03463-264771, email: rathindrakvk@gmail.com, rathindrakvk@rediffmail.com
- 5. District:** BIRBHUM
- 6. State:** WEST BENGAL

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	Kharif Black gram	Kali-50	5.6	62	116	840	Crop: - Kharif Black Gram Var. WBU-109 + Herbicides pendimethalin as pre emergence @ 3lt/ha+ Micronutrient spray Boron-20 @ 2g/lt water in 25 and 45 DAS	61	10	12.75	8.9	10.95	862	461	63

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	Crop: - Kharif Black Gram Var. WBU- 109 + Herbicides pendimethalin as pre emergence @ 3lt/ha+ Micronutrient spray Boron-20 @ 2g/lt water in 25 and 45 DAS	17325	33600	16275	1.94	18375	65700	47325	3.58

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 (Mondays/household)
1	Black Gram Var: WBU-109	10950	100	60.00	Rest is kept for Dal processing and sowing seeds in the next season.	-	Payment for Labour bill, payment for fertilizer, pesticide expenditures and also family need	08

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	Crop: - Kharif Black Gram Var. WBU- 109 + Herbicides pendimethalin as pre emergence @ 3lt/ha+ Micronutrient spray Boron-20 @ 2g/lt water in 25 and 45 DAS	Suitable to a large extent.	Farmers prefer medium size of seeds and shiny black colour of the seeds of the variety.	New improved variety seeds are affordable. However other components of package of practices like herbicides, plant protection chemicals, micro-nutrients, chemical fertilizers, irrigations etc. are not at all affordable except a very few from the beneficiaries when the programme support would be withdrawn.	None	No, the improved variety and the technological supportive package of practices are acceptable to the partner farmers of the Cluster FLD; but other farmers are still apprehensive about the availability of seeds of the improved varieties and the market acceptance of these new improved varieties. The farmers are greatly concerned about the rising prices of inputs like herbicides, micro-nutrients, plant protection chemicals, irrigation water, labour etc.	Availability of seeds should be ensured in time. Appropriate good quality <i>Rhizobium</i> culture should be ensured for supply among the farmers. Low cost quality herbicides and micro-nutrients should be encouraged for dissemination among the farming community. Availability of Dal mill to the farmers end will be most encouraging enterprise.

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Duration	Shorter	New variety: 70 days Local check: 95 days	95% increase in yield was obtained through the new technology than local check. The new variety fetched more benefit in shorter duration i.e. additional net return Rs. 31050/ha than local check which is very much encouraging for black gram cultivation in monocropped upland and medium land in kharif season instead of rice.
No. of branches/ plant	Highly branched	New technology: 15 Local check: 7	
No. of pods /plant	Higher	New technology: 38 Local check: 19	

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmers attended
1	AIR live phone in Black gram cultivation in monocropped upland in post kharif	20.08.2019	NA
1	Field day on Sowing of Black gram in monocropped upland	16.09.2019	10
2	Training on Weed and micronutrient management in kharif Black gram as crop diversification.	20.09.2019	29
3	Training on Harvesting as seed of Black gram kharif season	18.11.2019	22
4	Field day on Harvesting and Threshing of kharif Black gram	19.11.2019	18

8. Sequential good quality photographs (as per crop stages i.e. growth & development)



9. Farmers' training



10. Quality Photographs of field visits/field days and technology demonstrated.



Harvesting Stage of Black gram



11. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input	Rs. 90,000.00	It will be submitted later	
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total			

12. List of Farmer under FLD (Crop wise)


a) Crop1

Name of farmer	Father's name	Village	Block	Mobile No.	GPS Coordinates (DDMMSS format)		Soi l test ing don e (Ye s/N o)	Recomme ndations based on soil test value	Brief technol ogy interve nion	Variety	Area (ha)	Seed quanti ty used	Demo. Yield (q/ha)			Yiel d of local chec k q/ha	% incre ase
					Latitud e	Longitud e							H	L	A		
										WBU- 109	10	300 kg	12 .7 5	8. 9	1 0 .9 5	5.6	90

Joydeb Ghosh		Digha	Sainthia	629403 1167	23.6814 91	87.69673 1					0.26					
Shyamal Chowdhury	Bijaykrishna Chowdhury	Digha	Sainthia	947487 4082	23.6814 91	87.69673 3					0.26					
Piyushkanti Ghosh	Lt Akkori Ghosh	Digha	Sainthia	787252 6257	23.6814 81	87.69662 1					0.13					
Haricharan Ghosh	Lt Khudiram Ghosh	Digha	Sainthia	973210 1933	23.6814 91	87.69673 1					0.13					
Kripasindhu Ghosh	Nirmal Chandra Ghosh	Digha	Sainthia	967980 3092	23.6814 91	87.69673 3					0.26					
Prabir Ghosh	Lt Panchugopal Ghosh	Digha	Sainthia	760215 1792	23.6814 81	87.69662 1					0.33					
Bamapada Bagdi	Gour Bagdi	Digha	Sainthia	702996 5137	23.6814 91	87.69673 1					0.13					
Mohan Das	Nirmal Das	Digha	Sainthia	906479 1125	23.6814 91	87.69673 3					0.13					
Poritosh Ghosh	Lt Panchugopal Ghosh	Digha	Sainthia	814556 9295	23.6814 81	87.69662 1					0.13					
Sanjit Ghosh	Lt Purnachandra Ghosh	Digha	Sainthia	974987 3036	23.6814 91	87.69673 1					0.13					
Shubhasish Ghosh	Shishir Kumar Ghosh	Digha	Sainthia	973479 0932	23.6814 91	87.69673 3					0.33					
Radhamadhab Ghosh	Lt Bhudhar Ghosh	Digha	Sainthia	811605 7282	23.6814 81	87.69662 1					0.13					
Ashesh Ghosh	Ajit Ghosh	Digha	Sainthia	629410 7726	23.6814 91	87.69673 1					0.13					
Sanjoy Ghosh	Tapankanti Ghosh	Digha	Sainthia	973210 2001	23.6814 91	87.69673 3					0.13					
Jagannath Ghosh	Giridhari Ghosh	Digha	Sainthia	767989 2953	23.6814 81	87.69662 1					0.26					
Suksudan Bhaduri	Shantira Bhaduri	Ruppur	Bolpur Sriniketan	956434 7685	23.6672 31	87.60833 1					0.13					
Madhusudan Bhaduri	Shantira Bhaduri	Ruppur	Bolpur Sriniketan	977572 3130	23.6673 12	87.60838 6					0.13					

Bipadbaran Bhaduri	Sudhir Bhaduri	Ruppur	Bolpur Sriniketan	9064324625	23.667231	87.608313					0.13					
Nimai Bhaduri	Sudhir Bhaduri	Ruppur	Bolpur Sriniketan	8926536411	23.667235	87.608311					0.13					
Rabindranath Bhaduri	Sudhir Bhaduri	Ruppur	Bolpur Sriniketan	7478704674	23.667231	87.608331					0.13					
Kanan Lohar	Panki Lohar	Ruppur	Bolpur Sriniketan	9547526556	23.667287	87.608351					0.33					
Shyamali Lohar	Krishna Lohar	Ruppur	Bolpur Sriniketan	9547987174	23.667235	87.608311					0.13					
Purnima Lohar	Baul Lohar	Ruppur	Bolpur Sriniketan	8972135579	23.667231	87.608331					0.13					
Jiten Ghosh	Prabhakar Ghosh	Ruppur	Bolpur Sriniketan	9732071272	23.667287	87.608351					0.13					
Ranjit Ghosh	Bhutnath Ghosh	Ruppur	Bolpur Sriniketan	9775782519	23.667253	87.608382					0.17					
Khirodgopal Mondal	Narayan Chandra Mondal	Ruppur	Bolpur Sriniketan	9732835384	23.667231	87.608331					0.13					
Rita Chatterjee	Dilip Haldar	Ruppur	Bolpur Sriniketan	8900441912	23.667231	87.608331					0.13					
Binoy Konra	Jelai Konra	Ruppur	Bolpur Sriniketan	9933432306	23.667231	87.608331					0.13					
Tapasi Patar	Dilip Ghosh	Ruppur	Bolpur Sriniketan	9474411658	23.667231	87.608331					0.13					
Tinku Ghosh	Chandi Manna	Ruppur	Bolpur Sriniketan		23.667249	87.608397					0.13					
Sukal Mardi	Lakshmi Mardi	Keodaha	Bolpur Sriniketan	6296771613	23.756019	87.745677					0.13					

Nursub Bibi	Nur Hossion	Narayan pur	Dubrajpur	702956 9120	23.8147 91	87.43554 7					0.13					
Sabina Bibi	Nubur	Narayan pur	Dubrajpur		23.8141 25	87.43566 8					0.13					
Tajmira Bibi	Sukur	Narayan pur	Dubrajpur	959341 6960	23.8147 91	87.43560 8					0.13					
Purnima Dome	Dhiren Dome	Narayan pur	Dubrajpur	787263 1676	23.8147 63	87.43561 02					0.13					
Sabina Bibi	Kamaluddin	Narayan pur	Dubrajpur		23.8147 63	87.43561 02					0.26					
Kahinur Bibi	Latif	Narayan pur	Dubrajpur	629429 7216	23.8142 64	87.43609 3					0.13					
Mateja Bibi	Hamid	Narayan pur	Dubrajpur	892663 6299	23.8147 91	87.43554 7					0.13					
Sonali Dome	Sadhan Dme	Narayan pur	Dubrajpur	977560 621	23.8141 25	87.43566 8					0.26					
Kakali Bagdi	Sanjib Bagdi	Narayan pur	Dubrajpur	627644 3627	23.8147 91	87.43560 8					0.26					
Chandana Dome	Dhiren Dome	Narayan pur	Dubrajpur	843640 3224	23.8147 57	87.43931 4					0.26					
Bulu Dome	Sudhir Dome	Narayan pur	Dubrajpur	977521 3914	23.8142 64	87.43609 3					0.13					
Sanera Bibi	Akbar	Narayan pur	Dubrajpur	985176 3831	23.8147 91	87.43554 7					0.26					
Hasida Bibi	Rabiul	Narayan pur	Dubrajpur	832705 1355	23.8141 25	87.43566 8					0.26					


 Programme Co-ordinator
 Kathindra Krishi Vigyan Kendra
 Visva-Bharati, Sriniketan

Signature of Programme Co-coordinator