

CLUSTER FRONTLINE DEMONSTRATION OF KHARIF PULSES (2017) 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

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	Kharif Black gram	Kali-50	5.1	112	166	890	Crop: - Kharif Black Gram Var. PU-31 + Herbicides pendimethalin as pre emergence @ 3lt/ha+ Micronutrient spray Boron-20 @ 2g/lt water in 25 and 45 DAS	129	30	13.25	8.90	10.62	466	332	62

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. PU-31 + Herbicides pendimethalin as pre emergence @ 3lt/ha+ Micronutrient spray Boron-20 @ 2g/lt water in 25 and 45 DAS	15070	28050	12980	1.86	16005	58410	42405	3.64

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)
4.	Black Gram Var. PU-31	31860	200	55.00	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. PU-31 + 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: 72 days Local check: 95 days	108% 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. 29425/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: 18	

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Training on Pulse production technologies in kharif season	30/5/2017, RKVK	13
2	Training on Crop diversification through pulse cultivation in kharif season	22/6/2017, RKVK	23
3	Training on Improved methods of pulse and oilseeds cultivation in kharif season for crop diversification	13/7/2017, RKVK	25
4	Field day on Improved method of blackgram cultivation in kharif season	27/7/2017, Bolpur	35
5	Improved variety and fertilizer management of blackgram in post kharif season	8/8/2017, KVK	17
6	Field day on sowing blackgram variety PU-31 in kharif season	19/8/2017, Debanandapur	30
7	Field day on fertilizer management in blackgram	15/9/2017, Labpur	22
8	Field day on performance of kharif blackgram as crop diversification	12/10/2017, Rampurhat	22

8. Farmers' training photographs

Rathindra KVK Scientists at the On-Campus Training Programme on the Cluster FLD Programme on Kharif Pulses



Photographs of Seed Distribution



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





11. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input	1,50,601.00	1,98,538.00	26462.00
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	1,50,601.00	1,98,538.00	26462.00

12. List of Farmer under FLD (Crop wise)

a) Crop1- Black Gram

Name of farmer	Father's name	Village	Block	Mobile No.	E m a i l I D	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Reco mmen dation s based on soil test value	Brief technol ogy interve ntion	Variety	See d qua ntit y use d	Area sown (ha.)	Demo . Yield (q/ha)			Yiel d of local chec k q/ha	% incre ase
						Latitude	Longitud e							H	L	A		
										Var. PU-31 + Herbicides+ Micronu trient spray	PU-31	30 kg/ha		1325	890	1062	5.1	108
Sushanta Das	Lt Biswanath Das	Supur	Bolpur Sriniketan	9635616331		23.5977641	87.6755267	Yes					0.26	3.40				
Santosh Das	Lt Sadananda Das	Ramchandrapur	Bolpur Sriniketan	9635331913		23.6203771	87.671214	Yes					0.13	1.70				
Nimai Bagdi	Lt Gobinda Bagdi	Ramchandrapur	Bolpur Sriniketan	9932976244		23.6207489	87.671224	Yes					0.13	1.68				
Amar Sarkar	Lt Motilal Sarkar	Ramchandrapur	Bolpur Sriniketan	9002126433		23.6317726	87.6875429	Yes					0.13	1.70				
Madhusudan Poddar	Lt Ananta Poddar	Ramchandrapur	Bolpur Sriniketan	9091237303		23.6275621	87.6870267	Yes					0.26	3.42				
Gopal Bagdi	Lt Gobinda Bagdi	Ramchandrapur	Bolpur Sriniketan	8001886983		23.6299047	87.6869267	Yes					0.26	3.42				

Jagabandhu Ghosh	Lt Muktipada Ghosh	Ramchandrapur	Bolpur Sriniketan	8158022887	23.627749	87.67121	Yes					0.13	1.71		
Som Maddi	Lt Shuno Mardi	Ramchandrapur	Bolpur Sriniketan	8609943080	23.6207489	87.67114	Yes					0.4	5.3		
Narayan Barman	Anil Barman	Chandanpur	Bolpur Sriniketan	8436757901	23.59776	87.6755	Yes					0.4	5.25		
Sukumar Ghosh	Purnachandra Ghosh	Chandanpur	Bolpur Sriniketan	9002564131	23.59308	87.71125	Yes					0.06	0.78		
Panchanan Meta	Kalipada Mete	Chandanpur	Bolpur Sriniketan	8536900640	23.627586	87.65611	Yes					0.26	3.38		
Shyam Barman	Sristhi Barman	Chandanpur	Bolpur Sriniketan	8167046735	23.6207489	87.6712124	Yes					0.26	3.35		
Prangopal Thakur	Gokulanda Thakur	Chandanpur	Bolpur Sriniketan	9126885141	23.6641867	87.6924717	Yes					0.13	1.72		
Narayan Mondal	Ashutosh Mondal	Chandanpur	Bolpur Sriniketan	8972664944	23.6275858	87.6561092	Yes					0.06	0.75		
Narayan Barman	Bhakti Barman	Chandanpur	Bolpur Sriniketan	9635390865	23.627586	87.65611	Yes					0.53	5.6		
Bishnupada Mondal	Ashutosh Mondal	Chandanpur	Bolpur Sriniketan	7407782885	23.6426738	87.6459348	Yes					0.06	0.77		
Kashinath Ghosh	Narayan Chandra Ghosh	Chandanpur	Bolpur Sriniketan	8016963884	23.6270588	87.67161	Yes					0.13	1.69		
Dipak Mondal	Ashutosh Mondal	Chandanpur	Bolpur Sriniketan	9800376554	23.620749	87.671212	Yes					0.13	1.69		
Uttam Pal	Lt Laxmikanta Pal	Debandapur	Bolpur Sriniketan	8327372365			No					0.26	3.36		
Niradbaran Debanshi	Lt Kamalaksha Debanshi	Debandapur	Bolpur Sriniketan	9679896570			No					0.26	3.30		
Chhattu Ghosh	Sanat Kumar Ghosh	Debandapur	Bolpur Sriniketan	9775729496			No					0.13	1.70		

Mahadeb Das	Ajit Das	Ratanpur	Bolpur Sriniketan	892656 2455				Yes					0.26	3.30		
Basukinath Laha	Sanjiban Laha	Damdama	Bolpur Sriniketan	985154 3033				Yes					0.26	3.35		
Ananda Das	Sarat Das	Ratanpur	Bolpur Sriniketan					No					0.13	1.68		
Nabani Das	Haradhan Das	Ratanpur	Bolpur Sriniketan					No					0.06	0.75		
Adyanath Ghosh	Gobinda chandra Ghosh	Debanandapur	Bolpur Sriniketan	964730 9443				No					0.06	0.76		
Tuhin Subhra Dey	Nikhil Kumar Dey	Debanandapur	Bolpur Sriniketan	973517 4764				No					0.13	1.65		
Sujit Pal	Sunil Pal	Debanandapur	Bolpur Sriniketan	892691 2589				No					0.33	4.30		
Swadhin Hansda	Shiblal Hansda	Jethiya Schoolpara	Md.Bazer	740773 9090	24.27313	87.13256							0.26	2.45		
Promod Singh	Banabihari Singh	Jethiya Namopara	Md.Bazer	817005 3622	24.89213	87.78352		Yes					0.13	1.157		
Sukal Soren	Hopna Soren	Chakraipur	Md.Bazer	758494 9349	24.01234	87.24564		Yes					0.26	2.52		
Budi Hemram	Kisun Hemram	Jethiya Namopara	Md.Bazer	843613 9128	24.33262	87.48636		Yes					0.26	2.60		
Maisu Tudu	Madaram Tudu	Buritala	Md.Bazer	779762 4874	24.91231	87.42313							0.26	2.60		
Barish Hansda	Babulal Hansda	Jethiya Suryapara	Md.Bazer	980060 6408	24.02231	87.13536		Yes					0.13	1.385		
Hapna Mardi	Bhareh Mardi	Chakraipur	Md.Bazer	731868 5633	24.05235	87.58456		No					0.53	4.90		
Anshila Tudu	Kalu Tudu	Deyanganj	Md.Bazer	767678 4541	24.05326	87.47653		No					0.13	1.25		

		Tetulbandh														
Basanti Hemram	Pachu Hemram	Deyanganj Tetulbandh	Md.Bazer	743183 1284		24.06256	87.65023	No					0.09	0.85		
Churamani Murmu	Bejal Murmu	Deyanganj Tetulbandh	Md.Bazer	747892 6767		24.05326	87.25585	No					0.53	4.85		
Jiban Mardi	Lt-Baburam Mardi	Salbadra, Karbatala	Rampurhat	864208 2493		24.13802	87.62653	No					0.53	4.90		
Kalin Soren	Lt- Jagan Soren	Salbadra, Karbatala	Rampurhat	909101 933809		24.32079	87.62912	No					0.4	3.56		
Bartany Besra	Lt- Isswani Besra	Salbadra, Karbatala	Rampurhat	755789 8645		24.13823	87.64663	No					0.4	3.60		
Jahanara Bibi	Ajit Miya	Shukna	Md.Bazer					No					0.13	1.30		
Dukho haran Orang	Shashadhar Orang	Shukna	Md.Bazer					No					0.26	2.65		
Kandna Orang	Ashwini Orang	Shukna	Md.Bazer					No					0.06	0.60		
Patun Bibi	Nejamuddin Miya	Shukna	Md.Bazer					No					0.13	1.35		
Rasidan Bibi	Lalmahamad Miya	Shukna	Md.Bazer					No					0.4	3.65		
Jelema Bibi	Kurban Miya	Shukna	Md.Bazer					No					0.4	4.15		
Hasina Bibi	Rejaul Miya	Shukna	Md.Bazer					No					0.13	1.30		
Jehara Bibi	Kamsuddin Miya	Shukna	Md.Bazer					No					0.53	5.45		
Ajema Bibi	Kased Miya	Shukna	Md.Bazer					No					0.03	0.35		

Saleha Bibi	Ismail Miya	Shukna	Md.Bazer					No					0.13	1.45		
Sona Moni Soren	Chunga	Shukna	Md.Bazer					No					0.06	0.54		
Dhani Marandi	Sukal Marandi	Shukna	Md.Bazer					No					0.03	0.32		
Sandhya Orang	Sunil Orang	Shukna	Md.Bazer					No					0.2	2.10		
Lakshi Hansda	Jiten Hansda	Shukna	Md.Bazer					No					0.13	1.35		
Putul Orang	Shyama Orang	Shukna	Md.Bazer					No					0.53	5.10		
Paribala Orang	Nandalal Orang	Shukna	Md.Bazer					No					0.53	4.95		
Najira Bibi	Najir Miya	Shukna	Md.Bazer					No					0.06	0.60		
Isma Bibi	Manruddin Miya	Shukna	Md.Bazer					No					0.26	2.35		
Fejirana Bibi	Ansarul Miya	Shukna	Md.Bazer					No					0.06	0.58		
Guljan Bibi	Safik Miya	Shukna	Md.Bazer					No					0.13	1.25		
Panmoni Murmu	Khario Murmu	Shukna	Md.Bazer					No					0.03	0.28		
Temina Bibi	Mujahit Miya	Shukna	Md.Bazer					No					0.6	6.15		
Fuljan Bibi	Selim Miya	Shukna	Md.Bazer					No					0.26	2.50		
Rina Khatun	Neimuddin Miya	Shukna	Md.Bazer					No					0.4	4.10		
Serifan Bibi	Tutu Miya	Shukna	Md.Bazer					No					0.4	3.90		
Nisatuna Bibi	Baharuddin Miya	Shukna	Md.Bazer					No					0.26	2.60		
Kalamoni Murmu	China Murmu	Shukna	Md.Bazer					No					0.06	0.55		
Rani Tudu	Budhar Tudu	Shukna	Md.Bazer					No					0.2	1.90		

Khani Hemram	Jakar Hemram	Shukna	Md.Bazer					No					0.06	0.60		
Dharam moni Soren	Gurdhu Soren	Shukna	Md.Bazer					No					0.13	1.25		
Pani Soren	Hopna Soren	Shukna	Md.Bazer					No					0.09	0.85		
Parulanija Bibi	Intaj Miya	Shukna	Md.Bazer					No					0.4	3.95		
Motijan Bibi	Abas Miya	Shukna	Md.Bazer					No					0.06	0.55		
Nurbanu Bibi	Jebir Miya	Shukna	Md.Bazer					No					0.06	0.55		
Jahanur Bibi	Dilsad Miya	Shukna	Md.Bazer					No					0.13	1.26		
Jemala Bibi	Miaraj Ansari	Shukna	Md.Bazer					No					0.13	1.26		
Sahanaj Bibi	Lalababu Miya	Shukna	Md.Bazer					No					0.06	0.57		
Menoka Orang	Dharma Orang	Shukna	Md.Bazer					No					0.06	0.55		
Behula Orang	Manmat Orang	Shukna	Md.Bazer					No					0.03	0.27		
Tapan Mal	Simai Mal	Putka	Khoyrasole	7407922909	23.870539	87.263533		No					0.53	4.72		
Mihir Mal	Lt- Lambu Mal	Putka	Khoyrasole	9735129559	23.871092	87.263533		No					0.4	3.61		
Dukho Haran Mal	Gandal Mal	Putka	Khoyrasole	9083751727	23.871861	87.565896		No					0.26	2.55		
Swapan Mal	Nimai Mal	Putka	Khoyrasole	7872995227	23.872562	87.264674		No					0.33	3.52		
Bhudhar Mal	Lt Rasamoy Mal	Putka	Khoyrasole	9933437750	23.871861	87.232156		No					0.33	3.50		
Salauor Khan	Golam Khan	Putka	Khoyrasole	7407826303	23.875642	87.562134		No					0.4	4.25		
Bijoy Singha	Garibandar Singh	Shibpur	Khoyrasole	7602096531				No					0.26	2.75		

Biswanath Mondal	Nabani Mondal	Shibpur	Khoyrasole	7602099377				No					0.26	2.80		
Manil Mondal	Lt Gopal Mondal	Shibpur	Khoyrasole	8967067207				No					0.26	2.80		
Narayan Mondal	Lt Bholanath Mondal	Shibpur	Khoyrasole	8170013149				No					0.26	2.85		
Spostadhar Bagdi	Lt Habal Bagdi	Patadanga	Rajnagar					No					0.53	5.60		
Lalchand Ghosh	Kamal Ghosh	Patadanga	Rajnagar	9564519384				No					0.13	1.40		
Rakshakar Mondal	Sambhu Mondal	Patadanga	Rajnagar	8342045876				No					0.06	0.63		
Amrita Aknure	Maniram Ankure	Patadanga	Rajnagar	8972837509				No					0.13	1.38		
Sk. Asraf	Sk .Haidar	Kusnasol	Rajnagar	8016722831				No					0.13	1.40		
Sk. Sabadali	Sk. Rabiul	Kusnasol	Rajnagar					No					0.13	1.40		
Nityanarayan Mukherjee	Lt Ramshankar Mukherjee	Patadanga	Rajnagar	8641050325				No					0.13	1.45		
Keshab Mali	Gokulchandra Mali	Laujore	Rajnagar	9547715179				No					0.53	5.62		
Gadadhar Das	Motar Das	Laujore		9775855467				No					0.53	5.65		
Ratan Mondal	Sunil Mondal	Takipur	Rajnagar					No					0.13	1.41		
Ranjit Das	Lt Shaktipada Das	Malkora	Rajnagar	9126447358				No					0.4	4.248		
Uttam Mali	Lt Bharat Mali	Laujore	Rajnagar					No					0.13	1.40		

Tarashankar Mondal	Lt Ajit Kumar Mondal	Laujore	Rajnagar	973567 8778				No					0.13	1.45		
Modan Mohan Karmakar	Lt Dijwapada Karmakar	Kairadihi	Rajnagar	892621 9827				No					0.03	0.32		
Utpal Dey	Lt Dhajadhari Dey	Patadanga	Rajnagar	959618 6273				No					0.39	4.20		
Data Karna Mondal	Santosh Mondal	Patadanga	Rajnagar					No					0.13	1.42		
Nepal Mondal	Lt Budhan Chandra Mondal	Patadanga	Rajnagar	900267 8376				No					0.13	1.40		
Abani pada Mondal	Lt Umapada Mondal	Sajina	Rajnagar	892676 7235				No					0.13	1.45		
Lakshi kanta Dey	Lt Dhajadhari Dey	Patadanga	Rajnagar	892715 6102				No					0.13	1.37		
Prodip Roy	Lt Sahahram Roy	Madhai pur	Rajnagar	973434 3139				No					0.52	5.60		
Data Karna Mondal	Santosh Mondal	Patadanga	Rajnagar					No					0.13	1.35		
Shyamal Kundu	Narayan Mondal	Patadanga	Rajnagar					No					0.13	1.40		
Pintu Konra	Gurupada Konra	Patadanga	Rajnagar					No					0.13	1.70		
Uttam Mondal	Bairas Mondal	Patadanga	Rajnagar					No					0.13	1.48		
Sajen Roy	Sakkhi Gopal Roy	Bandhi	Rajnagar					No					0.06	0.65		
Asish Kahar	Sasharam Kahar	Patadanga	Rajnagar	973427 6453				No					0.13	1.42		

Joydeb Mali	Shyam Sundar Mali	Laujore	Rajnagar	973424 1152				No					0.13	1.39		
Ganesh Bhandari	Lt Mohadeb Bhandari	Patadanga	Rajnagar	964752 5720				No					0.13	1.42		
Anjan Bhandari	Sitaram Bhandari	Patadanga	Rajnagar	964724 9753				No					0.12	1.28		
Pathik Roy	Ananada Roy	Bandi	Rajnagar	892667 4229				No					0.13	1.30		
Asish Roy	Murali Dhar Roy	Bandi	Rajnagar	867097 3024				No					0.66	7.0		
Muruli Rot	Panchanan Roy	Bandi	Rajnagar	867097 3024				No					0.46	4.75		
Dinu Kahar	Gajanan Kahar	Bandi	Rajnagar					No					0.33	3.45		
Kiriti Bhushan Mondal	Mohadeb Mondal	Abudanga	Rajnagar	960968 0283				No					0.46	4.70		
Mohedb Dome	Shakti Dome	Bandi	Rajnagar					No					0.46	4.75		
Nityagopal Mal	Mangal Mal	Bandi	Rajnagar			23.8972	87.321021	No					0.66	6.90		
Babujan Murmu	Som Murmu	Shankar purdih	Rajnagar			23.8976	87.3158	No					0.13	1.32		
Swapan Ghosh	Anil Ghosh	Kastogoriya	Rajnagar					No					0.06	0.70		
Sanat Ankure	Mohadeb Ankure	Bandi	Rajnagar					No					0.6	6.38		

Signature of Programme Co-coordinator