

CLUSTER FRONTLINE DEMONSTRATION OF KHARIF OILSEED (2017)

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 Sesame	Tilottoma	7.80	153	135	420	Var. SWB- 32-10-1 + Herbicides, Micronutrient spray	131	40	11.3	8.00	10.25	160	181	71

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	Var. SWB- 32-10-1 + Herbicides, Micronutrient spray	13250	35880	22630	2.71	14000	47150	33150	3.37

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	Sesame Var. SWB- 32-10-1	41000	145	46.00	Rest is kept for extracting oil and sowing seeds in the next season	-	Payment of labour bill, Fertilizer and pesticide cost and family need	16

D. Oilseed 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	Var. SWB- 32-10-1 + Herbicides, Micronutrient spray	Suitable to a large extent	Farmers prefer the new improved variety of sesame i.e. Savitri as the existing variety of local check tillotoma gives a yield and takes more time than new variety Savitri.	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 etc. But a good demand of the crop in the market is found.	Availability of seeds should be ensured in time. Low cost quality herbicides and micro-nutrients should be encouraged for dissemination among the farming community. Proper irrigation facilities should be created by the Governmental agencies.

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
i) Duration	Satisfactory	Technology: 85 days Local Check: 95 days	31.4 % 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. 10520/ha than local check which is very much encouraging for sesame cultivation in kharif season instead of rice.
ii) No. of siliqua/plant	High	Technology: 39 Local Check: 27	
iii) Colour of the seed	Attractive	Technology: White Local Check: Brown	

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Training Programme on oilseed cultivation in kharif	30.5.17 at RKVK	13
2	Training on sowing & fertilizer management in kharif season	22.6.17 at RKVK	23
3	Training on crop diversification through kharif oilseeds sesame	13.7.17 at RKVK	25
4	Training on cropping systems with kharif oilseeds sesame	18.7.2017 at RKVK	30
5	Training on production technologies of kharif sesame	27.7.17 at ADA office Bolpur	35
6	Training on improved variety and fertilizer management in kharif sesame	4.8.17 at RKVK	24
7	Field day at flowering and fruiting of sesame	15.9.17 at Lavpur	22
8	Live Phone-In Programme on Cultivation of kharif oilseeds with special reference to Sesame through All India Radio, Santiniketan Station	01.08.2017	-
9	Television talk show on Cultivation of kharif oilseeds with special reference to Sesame through DD Santiniketan and DD Kolkata	9.8.17	-

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

Farmers' training photographs



Seed distribution.



Vegetative Growth Stage of Sesame



Photographs of Flowering stage and technology demonstrated.



Photograph of Harvesting.



H. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input	1,65,749.00	1,74,793.00	25,207.00
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	1,65,749.00	1,74,793.00	25,207.00

I. List of Farmer under FLD (Crop wise)

a) Crop1: Kharif Sesame

Name of farmer	Father's name	Villag e	Block	Mobil e No.	E m a il I D	GPS Coordinates (DDMMSS format)		Soil testi ng done (Yes /No)	Recom mendati ons based on soil test value	Bri ef tec hn olo gy int erv ent ion	Variety	Seed quan tity used	Demo. Yield (q/ha)			Yiel d of loca l chec k q/ha	% inc rea se
						Latitude	Longitud e						H	L	A		
											Sabitri	6 kg /ha	11. 3	8. 0	10. 25	7.8 0	31. 4

Manggoli Tudu	Mohan Tudu	Faridpur	Bolpur, Sriniketan					Yes										3.45		
Sarala Tudu	Raha Kisku	Faridpur	Bolpur, Sriniketan					Yes										3.52		
Lakshi Marddi	Gobind Kisku	Faridpur	Bolpur, Sriniketan					Yes										1.27		
Fulmoni Marddi	Mangal Marddi	Faridpur	Bolpur, Sriniketan					Yes										0.85		
Sukurmoni Murmu	Ragai Tudu	Faridpur	Bolpur, Sriniketan					Yes										2.66		
Kalidasi Murmu	Churko Kisku	Faridpur	Bolpur, Sriniketan					Yes										1.32		
Balika Murmu	Shibu Hansda	Faridpur	Bolpur, Sriniketan					Yes										1.32		
Churki Hembram	Babulal Hembram	Faridpur	Bolpur, Sriniketan					Yes										4.2		
Makhan Tudu	Shibu Murmu	Faridpur	Bolpur, Sriniketan					Yes										0.88		
Budin Murmu	Lakhan Murmu	Faridpur	Bolpur, Sriniketan					Yes										2.53		
Rakhi Bagdi Barman	Prosanta Bagdi	Dewli	Bolpur, Sriniketan					Yes										1.39		
Minoti Barman	Dilip Barman	Dewli	Bolpur, Sriniketan					Yes										3.27		
Karabi Bagdi Barman	Bahadur Barman	Dewli	Bolpur, Sriniketan					Yes										0.63		
Mallika Basuri	Banshi Mandal	Senokapur	Bolpur, Sriniketan					Yes										4.35		

Som Soren	Sanu Soren	Ballovpur	Bolpur, Sriniketan					Yes								0.87		
Nilmoni Tudu	Thena Murmu	Hatpukurdanga	Bolpur, Sriniketan					Yes								3.68		
Lakshi Murmu	Budin Hembram	Hatpukurdanga	Bolpur, Sriniketan					Yes								1.45		
Sahanara Bibi	Sk Alam	Hatpukurdanga	Bolpur, Sriniketan					Yes								3.7		
Manada Marddi	Khanda Tudu	Hatpukurdanga	Bolpur, Sriniketan					Yes								0.62		
Chandi Hembram	Nitai Soren	Hatpukurdanga	Bolpur, Sriniketan					Yes								0.6		
Rasmoni Kisku	Jitha Hansda	Hatpukurdanga	Bolpur, Sriniketan					Yes								4.3		
Rabina Bibi	Sk Serajul	Hatpukurdanga	Bolpur, Sriniketan					Yes								0.95		
Arefa Bibi	Md.Ali	Hatpukurdanga	Bolpur, Sriniketan					Yes								5.7		
Paku Murmu	Chhato Murmu	Hatpukurdanga	Bolpur, Sriniketan					Yes								0.65		
Mina Bibi	Sk Rahaman	Hatpukurdanga	Bolpur, Sriniketan					Yes								1.36		
Tapas Biswas	Lt- Umesh Biswas	Srichan drapur	Illambazar					Yes								4.22		
Swapan Biswas	Lt- Umapada Biswas	Srichan drapur	Illambazar					Yes								0.93		
Joyanta Bhattarya	Lt- Sadananda Bhattarya	Ballovpur	Bolpur, Sriniketan					Yes								0.678		
Ajit Soren	Lt Gopal Soren	Tarasole	Rajnagar	7432892046	23.97046	87.301485		No								7.1		

Nepal Marandi	Lt Kanu Marandi	Tarasole	Rajnagar	7432892046		23.964754	87.418573	No									4.1		
Lakhiram Hemram	Nantu Hemram	Barakonda	Rajnagar	9647534527		23.932733	87.369907	No									4.64		
Ukil Paoriya	Ranglal Paoriya	Makaltali	Rajnagar	7381975052		23.35619	83.447094	No									6.75		
Ishwar Hansda	Paydan Hansda	Nijhuri	Rajnagar	8768186833		24.53	89.48	No									6.7		
Imel Hemram	Shibu Hemram	Kabjabuni	Rajnagar	8640010278				No									3.27		
Baburji Soren	Lt Kanta Soren	Jualbhanga	Rampurhat			24.3218	87.62835	No									2.55		
Kolin Soren	Lt Jagannath Soren	Jualbhanga	Rampurhat	8918747354		24.3207	87.62802	No									1.3		
Rajkumar Soren	Kolin Soren	Jualbhanga	Rampurhat	8016111387		24.13199	87.62746	No									3.2		
Jiban Mardi	Baburam Hembrm	Salbadra Karbatala	Rampurhat	8642082493		24.13764	87.62362	No									5.35		
Sunil Mardi	Lt Chanda Besra	Salbadra Karbatala	Rampurhat	8642082493		24.13769	87.62273	No									3.98		
Sunil Mardi	Baburam Mardi	Salbadra Karbatala	Rampurhat			24.13754	87.6233	No									3.36		
Sukul Baksi	Ganesh Baksi	Sagardihi	Md.Bazer	8348092660		24.06802	87.59772	No									1.28		
Churamoni Tudu	Bejel Murmu	Hirmadanga	Md.Bazer	7478926767		24.05157	87.60248	No									3.32		
Basanti Hembram	Panchu Hembram	Dewalganj Tetulbandh	Md.Bazer	7431831284		24.06125	87.58626	No									2.61		
Maynamoti Soren	Mangal Soren	Dewalganj Tetulbandh	Md.Bazer	8250380334		24.06255	87.58647	No									4.14		
Anshila Tudu	Kalo Tudu	Dewalganj	Md.Bazer	7076784541		24.0598	87.47812	No									1.29		

		Tetulbandh															
Sanatan Mudi	Nitai Mudi	Dewalganj Tetulbandh	Md.Bazer	8918721541	24.06253	87.59287	No										5.45
Raju Mudi	Lt Dhiren Mudi	Dewalganj Tetulbandh	Md.Bazer	9647661715	24.06253	87.59272	No										5.41
Jamuna Mudi	Hari Mudi	Dewalganj Tetulbandh	Md.Bazer	8768369834	24.06121	87.58624	No										3.36
Purnima Marandi	Lt Thakur Marandi	Dewalganj Tetulbandh	Md.Bazer	7318816744	24.04894	87.59883	No										1.35
Sanatan Murmu	Lt Nabani Murmu	Khairidanga	Labpur	8436345026			No										6.7
Sk Kalamuddin	Lt Sk Mahiuddin	Khairidanga	Labpur	9732152130			No										4.73
Hasnahara Bibi	Sk Hossain Mahammad	Kusumgaria	Labpur	8436740439			No										4.7
Jaydeb Biswas	Lt Mahanta Biswas	Kalinagar	Labpur	9735386258			No										4.55
Roshnehara Begam	Lt Sk Dil Mahammad	Sekhampur	Labpur	9735582275			No										5.45
Manjushiree Ghosh	Lt Amulyaratan Ghosh	Nabagram	Labpur	9732391436			No										4.85
Nidra Mukherjee	Mihir Ghoshal	Sasthinagar	Labpur	9732373233			No										4.78
Anima Mondal	Lt Sasthicharan Mondal	Bikrampur	Labpur	9832826626			No										4.88
Manju Das	Jaydeb Das	Daspara	Labpur	7797606839			No										4.35
Santoshi Das	Ranjit Das	Daspara	Labpur	8371951742			No										4.62
Parbati Das	Manoranjan Das	Daspara	Labpur	7872378898			No										3.41

Mangali Das	Sahadeb Das	Daspara	Labpur	843639 8452				No							4.68		
Baidyanath Murmu	Lt Nabani Murmu	Khairidanga	Labpur	843634 5026				No							4.6		
Prodip Roy	Shokaram Roy	Madhai pur	Rajnagar			23.5404	87.25052	No							3.41		
Sk Arof Ali		Sajina	Rajnagar					No							1.4		
Sk Sabad Ali		Sajina	Rajnagar					No							1.42		
Kesab Mali	Gokul Mali	Loujore	Rajnagar	954771 5179				No							1.37		
Godadhar Das	Motar Das	Loujore	Rajnagar	977585 5476				No							1.32		
Ashis Roy	Muraridhar Roy	Bandi	Rajnagar	814515 0337				No							5.4		
Pathik Roy	Ananada Roy	Bandi	Rajnagar					No							10.2		
Bikash Roy	Sitaram Roy	Bandi	Rajnagar					No							4.15		
Chandmoni Soren	Matala Soren	Khairidanga	Labpur					No							3.35		
Dharam Mardi	Lt Ram sing Mardi	Khairidanga	Labpur					No							2.58		
Lakhiram Hansda	Lt Madhu Hansda	Khairidanga	Labpur					No							2.61		
Lakhiram Hemram	Lt Sukul Hemram	Bheramari	Labpur					No							3.98		
Gumro Hemram	Lt Shibu Hemram	Bheramari	Labpur					No							4		
Abdul Khayer	Lt Sk Samsul	Chouhatta	Labpur					No							4		
Jabeda Bibi	Sk Aktar	Chouhatta	Labpur					No							5.42		
Sk Kalamluddin	Lt Sk Mohid	Chouhatta	Labpur					No							3.6		
Babe Mate	Bihari Mate	Sekampur	Labpur					No							1.45		
Malati Biswas	Krishnapada Biswas	Kaloni	Labpur					No							2.89		

Sipra Mondal	Lt Bipad taran Mondal	Bikram pur	Labpur					No							3.7		
Joyanti Bgadi	Lt Nitai Bagdi	Bikram pur	Labpur					No							3.68		
Pari Mandal	Lt Shantiram Mondal	Bikram pur	Labpur					No							5.75		
Aradhana Bgadi	Lt Mandhab Bahdi	Bikram pur	Labpur					No							5.62		
Sila Mondal	Gurupada Mondal	Bikram pur	Labpur					No							3.69		
Krishna Mate	Lakhan Mate	Sekam pur	Labpur					No							1.36		
Rnjana Mate	Prasanta Mate	Sekam pur	Labpur					No							1.41		
Protima Mate	Baban Mate	Sekam pur	Labpur					No							1.36		
Manju Das	Joyedev Das	Daspar a	Labpur					No							2.82		
Anima Das	Ranjit Das	Daspar a	Labpur					No							3.52		
Soma Das	Ratan Das	Daspar a	Labpur					No							4.12		
Chumki Das	Kanai Das	Daspar a	Labpur					No							1.26		
Purnima Das	Balai Das	Daspar a	Labpur					No							0.79		
Shanti Das	Sukumar Das	Daspar a	Labpur					No							1.29		
Narayan Mondal	Lt Bholanath Mondal	Shibpur	Khoyrasole	8170013149				No							5.32		
Madan Mondal	Lt Bhaktipada Mondal	Shibpur	Khoyrasole	9734126141				No							2.57		
Gouttam Mondal	Lt Bhaktipada Mondal	Shibpur	Khoyrasole	99335635584				No							3.95		
Sadhwin Ghosh	Sunil Ghosh	Bamuni bohal	Khoyrasole	7586999174				No							2.05		
Popon Gope	Baidyanath Gope	Shibpur	Khoyrasole	9547683648				No							4.122		

Nasima Bibi	Geni Molla	Khanni	Khoyrasole	8159979017				No							4.1		
Santosh Mondal	Lt Sudhir Mondal	Shibpur	Khoyrasole	8972157307				No							4.8		
Kajal Mal	Mohadev Mal	Putka	Khoyrasole	7872653101				No							4.03		

Signature of Programme Co-coordinator