

CLUSTER FRONT LINE DEMONSTRATION OF SUMMER OILSEED (2019-20)

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

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	Summer, Groundnut, Var: Dharani (TCGS-1043)	AK: 12-24	14.0	+50	200	1600	Summer, Groundnut, Var: Dharani (TCG-1043)	183	40	28.2	22.4	26.6	2720	730	79

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmers' Existing plot				Demonstration plot				Farmers' feedback
		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	Groundnut Var- Dharani (TCGS-1043)	41000	84000	43000	2.04	46000	159600	113600	3.47	Additional net return is Rs.70600/ha

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained	Produce sold (Kg. /household)	Selling Rate (Rs. /Kg.)	Produce used for own sowing (Kg.)	Produce distributed to other farmers	Purpose for which income gained was utilized	Employment Generated (Man days / house hold)
1.	Groundnut, Var: Dharani. (TCGS-1043)	1,06, 400 kg	400	60.00	Rest (181) is kept for extracting Oil and sowing seeds in the next season.	–	Payment for Labor bill, payment for irrigation, fertilizer and pesticide expenditures.	25

D. Pulse Farmer's 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.	Groundnut, Var: Dharani. (TCGS-1043)	Suitable to a large extent	Farmers prefer the new improved variety of Groundnut, Var: Dharani. as the existing variety of local check AK-12-24 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. Mulching, Liming 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 New Technology vis-a vis Local Check	Farmers Feedback
1. Duration	Satisfactory	New Technology: 95 days, Local check: 110 days	90% 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.57300/ha than local check which is very much encouraging for groundnut cultivation in summer season instead of Boro rice.
2. No. of silique/plant	High	New Technology: 57 days Local Check: 39 days	
3. Type	Vigorous	New Technology: Spreading Local Check: Bunchy	

F) Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmers attended
1	Training Programme on Sowing and fertilizer management of Ground Nut	10.2.2020 Village Halsidanga Bolpur Srinikeatn	50
2	Training Programme on Improved varieties and cultivation practices of Groundnut	16.2.2020 Sahebdanga Illambazar block	54
3	Training Programme on Sowing and water management of Ground Nut	19.2.2020 Village Kumardihi Md. Bazar Block	40
4	Training Programme on weed management and nutrient management of Ground Nut	20.2.2020 Rajnagar	50
5	Audio Conference	27.04.2020 Rathindra KVK	33
6	Newspaper (Jana Darpan Agril. Newspaper)	24.05.2020 Rathindra KVK	-

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

Rathindra KVK Scientists at the Off-Campus Training Programme on the Cluster FLD Programme on Summer Oilseed, Groundnut, 2019-20



Photographs of Seed Distribution of Groundnut, 2019-20



Data collection at the Vegetative Stage of Groundnut, var Dharani, 2019-20



Field visit at the Flowering Stage of Groundnut, 2019-20



Cleaning of Groundnut after harvesting, 2019-20



H. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Summer Ground Nut, 2019-20	i) Critical input	4,80,000.00	4,80,300.00	-300.00
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day, training etc.)			
	iv) Publication of literature etc.			
Total		4,80,000.00	4,80,300.00	-300.00

I. List of Farmer under FLD (Crop wise)

Crop: - Groundnut, Summer, 2019-20

Name of farmer	Father's name	Village	Block	Mobile No.	Email ID	GPS Coordinates (DDMMSS format)		Soil testin g done (Yes/ No)	Reco mme ndati ons based on soil test value	Brief techno logy interv ention	Variety	See d qu ant ity use d	Area sown (ha.)	Demo. Yield (q/ha)			Yi el d of lo ca l ch ec k q/ ha	% incr ease
						Latitude	Longitud e							H	L	A		

SHIBU MARA NDI	LT KABIRA J MARAN DI	TARASOL E	RAJNAG AR									0.13					
PURBA SOREN	LT MOTI SOREN	TARASOL E	RAJNAG AR	70766098 71								0.13					
NAND A MURM U	LT MANGA L MURMU	TARASOL E	RAJNAG AR	89455530 33								0.13					
RINGT A SOREN	GONESH SOREN	TARASOL E	RAJNAG AR	93820149 66								0.13					
LAD SOREN	CHARA N SOREN	TARASOL E	RAJNAG AR									0.13					
BOLAI HANS DA	BUNRO HANS DA	TARASOL E	RAJNAG AR									0.13					
PARA MESW AR HANS DA	LT JAMU HANS DA	TARASOL E	RAJNAG AR									0.13					
DILIP SOREN	GOPAL SOREN	TARASOL E	RAJNAG AR									0.13					
RABIL AL MARA NDI	SHIBU MARAN DI	TARASOL E	RAJNAG AR									0.13					
BABUD HAN SOREN	MADAN SOREN	TARASOL E	RAJNAG AR									0.13					
SUPAL SOREN	MADAN SOREN	TARASOL E	RAJNAG AR									0.13					
KALO SOREN	LT RUMAI SOREN	KALEDIHI	RAJNAG AR	86375186 03								0.26					

SHIBEN BASKI	BUDI BASKI	GURKANTA	RAJNAGAR									0.13					
DACTAR BASKI	BIJEN BASKI	GURKANTA	RAJNAGAR									0.13					
MANAHAR TUDU	LT RAM TUDU	GURKANTA	RAJNAGAR									0.13					
LAKHUMURMU	BURO MURMU	GURKANTA	RAJNAGAR									0.26					
BABUDHAN HEMBRAM	ROTAI HEMBRAM	TARASOLE	RAJNAGAR	9679177147								0.26					
DHENA MURMU	GONSAI MURMU	TARASOLE	RAJNAGAR									0.26					
PARESH MURMU	GONSAI MURMU	TARASOLE	RAJNAGAR									0.26					
AMIN MURMU	PARESH MURMU	TARASOLE	RAJNAGAR	8509805694								0.26					
ANIL MURMU	BHUNRO MURMU	TARASOLE	RAJNAGAR	7864806519								0.13					
PROTI MA TUDU	SUDHIR TUDU	TARASOLE	RAJNAGAR	9933567395								0.13					
SANJOY GHOSH	TAPAN KUMAR GHOSH	DIGHA	BOLPUR-SRINIKETAN	9720102001	23.758621	87.632211						0.26					
PIYASH GHOSH	SISHIR KUMAR GHOSH	DIGHA	BOLPUR-SRINIKETAN	7029812721	23.758621	87.632211						0.16					

SUMI HEMB RAM	SOM HEMBR AM	HALSIDA NGA	ILLAMB AZAR									0.13					
MANO RANJA N CHOU DHUR Y	LT. GOBIND A CHOU HURY	DIGHIRPA R SENKAPU R	BOLPUR- SRINIKE TAN	74792700 55								0.13					
TAPAN MISTRI	LT. PURNA MISTRI	HALSIDA NGA	ILLAMB AZAR	96412134 91								0.39					
SUKU MAR MAJHI	MADHA B MAJHI	HALSIDA NGA	ILLAMB AZAR	95477733 19								0.26					
NARU BAURI	KENARA M BAURI	SENKAPU R	BOLPUR- SRINIKE TAN	89274785 85								0.13					
DIPAK BISWA S	NARESH BISWAS	HALSIDA NGA	ILLAMB AZAR	76023045 96								0.33					
BIKAS H BISWA S	NAREN BISWAS	HALSIDA NGA	ILLAMB AZAR	75848507 15								0.13					
BIMAL BISWA S	LT. NITAI BISWAS	HALSIDA NGA	ILLAMB AZAR	86703334 86								0.26					
BHABT OSH SARKA R	MAHEN DRA SARKAR	HALSIDA NGA	ILLAMB AZAR	93825597 18								0.26					
SOMN ATH MAND AL	SANATA N MANDA L	HALSIDA NGA	ILLAMB AZAR	81013177 31								0.26					
KHOGE N BISWA S	NAREN BISWAS	HALSIDA NGA	ILLAMB AZAR	87689354 06								0.39					

SUSHANTA MONDAL	SUDHIR MONDAL	SAHEBDANGA	ILLAMB AZAR									0.13					
SHUKDEB BHAKTA	BASUDEV BHAKTA	SAHEBDANGA	ILLAMB AZAR	8101751436								0.26					
SANJOY BISWAS	MOTILAL BISWAS	SAHEBDANGA	ILLAMB AZAR	9083584435								0.13					
MADHAB BISWAS	MADHUSUDAN BISWAS	SAHEBDANGA	ILLAMB AZAR	8927721903								0.17					
MRITANJOY SARKAR	JITENDRANATH SARKAR	SAHEBDANGA	ILLAMB AZAR	6295978704								0.78					
SUBHAJIT SARKAR	KHOGENDRANATH SARKAR	SAHEBDANGA	ILLAMB AZAR	7478444706								0.52					
MONGAL BISWAS	ADYNATH BISWAS	SAHEBDANGA	ILLAMB AZAR									0.13					
HARENSARKAR	PIYASISARKAR	SAHEBDANGA	ILLAMB AZAR									0.39					
JADAB BISWAS	MADHUSUDAN BISWAS	SAHEBDANGA	ILLAMB AZAR	7602622127								0.19					
KUNTAL SIKDAR	KALIPADA SIKDAR	SAHEBDANGA	ILLAMB AZAR	8240381663								0.39					
RAJUBIPARI	KANAI BIPARI	SAHEBDANGA	ILLAMB AZAR	9382993990								0.26					

BISWA NATH MAND AL	PARAM ANAND A MANDA L	SAHEBDA NGA	ILLAMB AZAR									0.13					
BIPLO B MAND AL	LT. BINOD MANDA L	SAHEBDA NGA	ILLAMB AZAR	89262590 32								0.26					
SUJIT BALA	SUNIL BALA	SAHEBDA NGA	ILLAMB AZAR	93825588 92								0.13					
RAMD AS TUDU	MATAL TUDU	USHAHA R	ILLAMB AZAR									0.26					
SHIBE MURM U	SOMAI MURMU	USHAHA R	ILLAMB AZAR	80059351 35								0.13					
GOUR BAURI	SUBAL BAURI	SENKAPU R	BOLPUR- SRINIK E TAN									0.26					
JIBAN SOREN	LAKSH MIRAM SOREN	SENKAPU R	BOLPUR- SRINIK E TAN	81163773 53								0.26					
GURU DAS BISWA S	NITYAN ANDA BISWAS	DIGHIRPA R SENKAPU R	BOLPUR- SRINIK E TAN	81457101 32								0.13					
SHYA MAL BISWA S	MAHEN DRANAT H BISWAS	DIGHIRPA R SENKAPU R	BOLPUR- SRINIK E TAN									0.13					
BIBEK ANAN DA MOND AL	BIRBHA DRA MONDA L	DIGHIRPA R SENKAPU R	BOLPUR- SRINIK E TAN	74076503 89								0.13					
AJOY BISWA S	NONIGO PAL BISWAS	DIGHIRPA R SENKAPU R	BOLPUR- SRINIK E TAN	97759065 17								0.26					

NAREN SARKAR	PIYASI SARKAR	DIGHIRPAR SENKAPUR	BOLPUR-SRINIKETAN									0.52					
NAMITA CHAUDHURY	MANARANJAN CHOUHURY	DIGHIRPAR SENKAPUR	BOLPUR-SRINIKETAN	7479270055								0.13					
KARTICK ROY	LT. NARAN ROY	HALSIDANGA	ILLAMB AZAR	9547839644								0.19					
TARAKNATH SARKAR	DURGA CHARAN SARKAR	HALSIDANGA	ILLAMB AZAR	8509126416	23.61249	87.61812						0.26					
BHABATOSH SARKAR	MAHINDRA SARKAR	HALSIDANGA	ILLAMB AZAR	9932578867								0.26					
GOURANGA MONDAL	PURNANDA MONDAL	HALSIDANGA	ILLAMB AZAR	8924780962								0.26					
BIMAL BISWAS	NITAI BISWAS	HALSIDANGA	ILLAMB AZAR	8670333486								0.26					
PARIMAL MONDAL	LT. SURESH MONDAL	HALSIDANGA	ILLAMB AZAR	6294019918								0.33					
TAPAN MISTRI	PURNACHANDRA MISTRI	HALSIDANGA	ILLAMB AZAR									0.26					
NILKANTA BISWAS	NIROD BISWAS	HALSIDANGA	ILLAMB AZAR	6295395133								0.26					

SOMNATH MANDAL	SANATAN MANDAL	HALSIDANGA	ILLAMB AZAR									0.13					
KALINDI HANSDA	GADAHANSDA	CHHAYLAKURI	MD.BAZAR		23.92048	87.44292						0.26					
RUPNITUDU	PARAMESWAR TUDU	CHHAYLAKURI	MD.BAZAR									0.13					
MONIKAMARANDI	BARADHAN MARANDI	CHHAYLAKURI	MD.BAZAR									0.26					
ELISABET MARANDI	SITARAM MARANDI	CHHAYLAKURI	MD.BAZAR									0.13					
ANITAHANSDA	NARAN HANSDA	CHHAYLAKURI	MD.BAZAR									0.13					
DHANI MURMU	RIGUI MURMU	CHHAYLAKURI	MD.BAZAR									0.13					
ABHILASH SOREN	BHUTKO SOREN	CHHAYLAKURI	MD.BAZAR									0.13					
RUPDHAN KISKU	MATAL KISKU	CHHAYLAKURI	MD.BAZAR									0.13					
MALATI HANSDA	LANRU HANSDA	CHHAYLAKURI	MD.BAZAR									0.26					
MRILAHANSDA	MAHANTA HANSDA	TULSIBONA	MD.BAZAR									0.13					
BABLI HANSDA	RABILAHANSDA	TULSIBONA	MD.BAZAR									0.13					

DHAN APATI MURM U	MAHAD EV HANSDA	TULSIBO NA	MD.BAZ AR										0.13				
RUPDH AN SOREN	MAHAD EV SOREN	TULSIBO NA	MD.BAZ AR										0.13				
MALLI KA TUDU	LAKSHI RAM TUDU	MOHULD ANGA	MD.BAZ AR										0.13				
ABITA TUDU	LAKSHI RAM TUDU	MOHULD ANGA	MD.BAZ AR										0.13				
SONA MONI MURM U	SUBRAT A HEMBR AM	KURNAX DIHI	MD.BAZ AR										0.13				
MAYN A MURM U	DHIRU HEMBR AM	KURNAX DIHI	MD.BAZ AR										0.13				

Sulzerata Mandal

Signature of Senior Scientist & Head (Officiating)