

CLUSTER FRONT LINE DEMONSTRATION OF SUMMER PULSE (2018-19)

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	Crop: - Summer-2018-19, Green gram	Panna	8.8	170	+69	620	IPM-02-3 + Herbicides, Micronutrient spray	119	20	13.20	9.10	12.90	241	594	66

Seeds of Improved Variety IPM-02-3 @ 30 kg/, Method of seed sowing: - Broadcasting, Application of herbicides; Pendimethalin @ 3 lit. / ha at 1-3 DAS, Foliar Spray of Micro- Nutrients: - B- 20 @ 2 gm. / lit. of water at 25 and 45 DAS.

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	Var IPM-02-3 Herbicides, Micronutrient spray	18810	52800	33990	2.81	20020	77400	57380	3.86	Additional net return is Rs.23390/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.	Green Gram IPM-02-3 + Herbicides, Micronutrient spray	25800 kg	100	60.00	Rest is kept for Dal processing and sowing seeds in the next season.	-	Payment for Labor bill, payment for irrigation, fertilizer and pesticide expenditures.	11

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.	Crop: - Green Gram Var- IPM-02-3 + Herbicides, Micronutrient spray	Suitable to a large extent.	Farmers prefer medium size of seeds and luxurious shiny 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. 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
1. Duration	Shorter	New variety: 80 days Local check: 90 days	47 % 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. 23390/ha than local check which is very much encouraging for summer green gram cultivation instead of summer rice.
2. No. of branches/ plant	Highly branched	New technology: 18 Local check: 11	
3. No. of pods /plant	Higher	New technology: 34 Local check: 21	

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 Sowing & Fertilizer management of summer green gram.	2-5.03.2019 Rathindra KVK	22
2.	Training Programme on Spraying of herbicide & micro-nutrients production technology in crop diversification of summer green gram.	8.03.2019 Rathindra KVK	11
3.	Broadcasting of recording programme on used of micro nutrients in cultivation of Summer pulses through All India Radio.	23.04.2019 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 Pulse



Photographs of Seed Distribution



Rathindra KVK Technology Agent Collecting Data at the Vegetative Stage of Green Gram



Rathindra KVK Technology Agent collecting Data at the Flowering Stage of Green Gram



Rathindra KVK Scientist collecting Data at the Maturity Stage of Green Gram



Rathindra KVK Scientist collecting Data at the Harvesting Stage of Green Gram



H. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Rabi Summer,2018-19, (Green Gram)	i) Critical input	NIL	64490.00	-64490.00
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day, training etc)			
	iv)Publication of literature etc.			
Total		NIL	64490.00	-64490.00

I. List of Farmer under FLD (Crop wise)

Crop: - Green Gram

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	Seed quan tity used	Are a sow n (ha.)	Demo. Yield (q/ha)			Yiel d of local chec k q/ha	% incr ease
						Latitud e	Longitud e							H	L	A		

												Crop: Green gram, Var. IPM-02- 3	30 kg /ha	20 ha.					
SRIKANTA PANDIT	LT. TARAPADA PAMDIT	KAMALAKANTAPUR	BOLPURSRINIKETAN	96478863 28															
SUKCHAND KONRA	NEPAL KONRA	KAMALAKANTAPUR	BOLPURSRINIKETAN																
KOUSHIK KONRA		KAMALAKANTAPUR	BOLPURSRINIKETAN																
SADHAN KONRA	SATYAKONRA	KAMALAKANTAPUR	BOLPURSRINIKETAN																
CHAND GOPALKONRA	JOGESWAR KONRA	KAMALAKANTAPUR	BOLPURSRINIKETAN																
RUDRA KONRA	KHETRANTHA KONRA	KAMALAKANTAPUR	BOLPURSRINIKETAN																
BALARAM KONRA	BANOMALI KONRA	KAMALAKANTAPUR	BOLPURSRINIKETAN																
TAPAN KONRA	BIRASKONRA	KAMALAKANTAPUR	BOLPURSRINIKETAN																
JIBAN BESRA	ROCIKBESRA	CHOUBATTA	MD.BAZAR	96091101 51															

SHIBN ARAY AN HANSD A	KALICH ARAN HANSDA	CHOUBA TTA	MD.BAZ AR															
FULMO NI HANSD A	HARINA RAYAN HANSDA	CHOUBA TTA	MD.BAZ AR															
SAHAG INI HANSD A	TAPAN HANSDA	CHOUBA TTA	MD.BAZ AR															
ANIL HANSD A	LT. NIMAI HANSDA	CHOUBA TTA	MD.BAZ AR	80014666 06														
RAM TUDU	BUDI TUDU	CHOUBA TTA	MD.BAZ AR	83482073 02														
DEBU HANSD A	HAPAN HANSDA	CHOUBA TTA	MD.BAZ AR															
JAGU SOREN	MANGA L SOREN	CHOUBA TTA	MD.BAZ AR															
SABYA SACHI SAHA	RABIND RANATH SAHA	DEBAGR AM	BOLPUR SRINIKE TAN	98513428 01														
SANAT AN GHOSH	KASHIN ATH GHOSH	BISHNUK HANDA	BOLPUR SRINIKE TAN	91530603 89														
PIYASI SH GHOSH	SISIR GHOSH	DIGHA	SAITHIA	96476862 22														
SANJO Y GHOSH	TAPAN KANTI GHOSH	DIGHA	SAITHIA	97321020 01														
ARUP KUMA R SAR	AJOY KUMAR SAR	JASHRA	BOLPUR SRINIKE TAN	94750451 30														

MAHA MADA BIBI	SK SUTAR	BISHALP UR	DUBRAJ PUR	70763732 15														
SAMSU NEHAR BIBI	SK KALU	BISHALP UR	DUBRAJ PUR	95933650 30														
SIULI BIBI	FORHAD	BISHALP UR	DUBRAJ PUR	87684833 50														
SAMSU NEHAR BIBI	INDRISH	BISHALP UR	DUBRAJ PUR	80014705 06														
PASHI NA BIBI	HARMUJ	BISHALP UR	DUBRAJ PUR	80017487 01														
ASIYA BIBI	SK HAMID	BISHALP UR	DUBRAJ PUR	80010580 71														
NILUP A BIBI	SHYAMS UR	BISHALP UR	DUBRAJ PUR	95646156 90														
SAMIN A BIBI	SK SAFIK	BISHALP UR	DUBRAJ PUR	97323196 50														
NIHAR A BIBI	SK JOYNAL	BISHALP UR	DUBRAJ PUR	97321070 74														
SAHER A BIBI	FATICK	BISHALP UR	DUBRAJ PUR	96093543 57														
PARBA TI HEMB RAM	CHAND AN HANSDA	MANDAR HATI	DUBRAJ PUR	83708275 83														
SUKAD I HEMB RAM	SANATA N SOREN	MANDAR HATI	DUBRAJ PUR	97322868 86														
DULI MARDI	KALO MURMU	MANDAR HATI	DUBRAJ PUR	81456855 73														
RANI HEMB RAM	DHARA M TUDU	MANDAR HATI	DUBRAJ PUR	95478531 37														

JHANU HEMB RAM	TARAK MARDI	MANDAR HATI	DUBRAJ PUR	84363999 87														
MUNG LI HEMB RAM	UKIL SOREN	MANDAR HATI	DUBRAJ PUR	96479607 90														
BALI TUDU	CHABLU SORE	MANDAR HATI	DUBRAJ PUR															
CHHAB I SOREN	KHOKA N MURMU	MANDAR HATI	DUBRAJ PUR	77976804 59														
ASMIR A BIBI	SK HASIB	MANDAR HATI	DUBRAJ PUR	96474554 27														
MANO YARA BIBI	NURISL AM	MANDAR HATI	DUBRAJ PUR	62953079 40														
SONA MONI HEMB RAM	MANGA L SOREN	MANDAR HATI	DUBRAJ PUR	77976804 59														
MARS HILA MURM U	PANDU MURMU	MANDAR HATI	DUBRAJ PUR	96092715 90														
SUMIT RA SOREN	BUDI SOREN	MANDAR HATI	DUBRAJ PUR	90838879 71														
LAXMI MURM U	GUPIN MURMU	MANDAR HATI	DUBRAJ PUR	70762791 16														
SAKIN A BIBI	SK MOJID	MANDAR HATI	DUBRAJ PUR	77971303 81														
PARBA TI SOREN	MADHA B SOREN	MANDAR HATI	DUBRAJ PUR	90838879 71														

RANJANA HEMBRAM	MONGLA HEMBRAM	MANDARHATI	DUBRAJ PUR	8336399987														
SONAMONI SOREN	BUDI SOREN	MANDARHATI	DUBRAJ PUR	9083887971														
FULMONI MARDI	MONTU MARDI	MANDARHATI	DUBRAJ PUR	8327237578														
SIMAHEMBRAM	GUDU HEMBRAM	MANDARHATI	DUBRAJ PUR	8436276005														
SUMITRA LOHAR	SWAPAN LOHAR	RUPPUR	BOLPUR SRINIKETAN	8759007237														
RAKHI LOHAR	NABAKUMAR LOHAR	RUPPUR	BOLPUR SRINIKETAN	9474633087														
ALMABIBI	KAWSARMIYA	RUPPUR	BOLPUR SRINIKETAN	9933365170														
RUMADAS	SUNILDAS	RUPPUR	BOLPUR SRINIKETAN	7797525796														
TAPASIPATHAR	PRASHANTA PATHAR	RUPPUR	BOLPUR SRINIKETAN	9800723423														
SUBHADRA RUJ	BISWAJITRUJ	RUPPUR	BOLPUR SRINIKETAN	9932912386														
RAKHI LOHAR	MONGAL LOHAR	RUPPUR	BOLPUR SRINIKETAN	7029774254														
AMINABIBI	SKSRIJAL	RUPPUR	BOLPUR SRINIKETAN	8170904296														

TAPU LOHAR	RUPAM LOHAR	RUPPUR	BOLPUR SRINIKE TAN	9593840341														
SIMA LOHAR	PATHIK LOHAR	RUPPUR	BOLPUR SRINIKE TAN	8695982046														
RASID A BIBI	LT. HARUN AL ALI RASID	BISHALPUR	DUBRAJ PUR	9732650462														
AJILA BIBI	LT. HART	BISHALPUR	DUBRAJ PUR	8327838794														
AMINA BIBI	SK FOJLUL HOQUE	BISHALPUR	DUBRAJ PUR	9609582672														
MUSLI MA BIBI	LT. ABDUL MOLLICK	BISHALPUR	DUBRAJ PUR	8436927514														
MAJIL A BIBI	SK HARU	BISHALPUR	DUBRAJ PUR	7679305426														
HASIB A BIBI	SK HASIS	BISHALPUR	DUBRAJ PUR	7602218980														
KHADI JA BIBI	SK BADRU	BISHALPUR	DUBRAJ PUR	8348607977														
ASHUD A BIBI	SK IRFAN	BISHALPUR	DUBRAJ PUR	8170802557														
SITAR A BIBI	ABDUL KHLEK	BISHALPUR	DUBRAJ PUR	9732108122														
SUMIT RA BAURI	RAM BAURI	BISHALPUR	DUBRAJ PUR	8001616492														
MINA BAURI	MADAN BAURI	BISHALPUR	DUBRAJ PUR	8001616492														
MARU FA BIBI	SK MATUJA	BISHALPUR	DUBRAJ PUR	6297238647														
MILI BAURI	SANAI BAURI	BISHALPUR	DUBRAJ PUR	6296100755														

APARN A BAURI	SATUL BAURI	BISHALP UR	DUBRAJ PUR	97349081 40														
SUMIT RA BAURI	SHAMB HU BAURI	BISHALP UR	DUBRAJ PUR	77183855 59														
NAJMA BIBI	JELUR HOQUE	BISHALP UR	DUBRAJ PUR	97347472 46														
SABIN A BIBI	SK NIJAN	BISHALP UR	DUBRAJ PUR	87683234 20														
HASIN A BIBI	SK NAZRUL	BISHALP UR	DUBRAJ PUR	78721597 72														
SABIN A BIBI	SK TAHER	BISHALP UR	DUBRAJ PUR	81685944 70														
ROUSO NARA BIBI	IMDADU LAL HOQUE	BISHALP UR	DUBRAJ PUR	89720064 22														
FIRDO USI BIBI	SK AJIM	BISHALP UR	DUBRAJ PUR	81163357 07														
FAJILA BIBI	FAJLUL HOQUE	BISHALP UR	DUBRAJ PUR	95648032 28														
ASMIN A BIBI	SK AKKEL ALI	BISHALP UR	DUBRAJ PUR	74077410 20														
HAMID A BIBI	SK SIRAJUL	BISHALP UR	DUBRAJ PUR	94746397 80														
SABIN A BIBI	LT. SK RUMJAN	BISHALP UR	DUBRAJ PUR	83270827 62														
SAIMA BIBI	SK IYAKUB	BISHALP UR	DUBRAJ PUR	62958559 10														
MANIR A BIBI	SK NAZRUL	BISHALP UR	DUBRAJ PUR	97349038 71														
AMINA BIBI	SK JAMAL	BISHALP UR	DUBRAJ PUR	90833581 12														
JUIFAN BIBI	SK JALALU DDIN	BISHALP UR	DUBRAJ PUR	96793303 38														

MONIH AR BIBI	LET- ALEF	BISHALP UR	DUBRAJ PUR	95649228 05														
NURNE SHA BIBI	SK NUR MD	BISHALP UR	DUBRAJ PUR	84365365 23														
ASIYA BIBI	GALAL SA	BISHALP UR	DUBRAJ PUR	83278387 94														
HAPIJA BIBI	SK JAHAN	BISHALP UR	DUBRAJ PUR	76798393 39														
MENA RA BIBI	SK DAUS	BISHALP UR	DUBRAJ PUR	84364193 93														
PAPIY A BIBI	LET-SK GAFUR	BISHALP UR	DUBRAJ PUR	97328510 44														
ANARJ U BIBI	LET-SK RAMJAN	BISHALP UR	DUBRAJ PUR	70766261 69														
MIRAJ U BIBI	LET-SK RAMJAN	BISHALP UR	DUBRAJ PUR	83482043 67														
GARA NI BIBI	LET- ABUL HOSSAI N	BISHALP UR	DUBRAJ PUR	78727287 92														
NAJUJ AHAN BIBI	LET- NUR MD	BISHALP UR	DUBRAJ PUR	81452106 90														
SUKOL MURM U	LET- PANDU MURMU	KEUDAH A	BOLPUR SRINIK TAN	62964876 95														
BAIDH YANAT H MARD DI	TUMUI MARD DI	KEUDAH A	BOLPUR SRINIK TAN	84365210 58														
SUKOL MARD DI	LAKHIR AM MARD DI	KEUDAH A	BOLPUR SRINIK TAN	77977874 76														

KHAK AN MARD DI	CHAITY ANA MARDDI	KEUDAH A	BOLPUR SRINIK E TAN															
SOM MURM U	MAHAN MURMU	KEUDAH A	BOLPUR SRINIK E TAN	89510292 37														
THAKU R MURM U	SHAYM MURMU	KEUDAH A	BOLPUR SRINIK E TAN	62957919 27														
LUKHU MURM U	SUKOL MURMU	KEUDAH A	BOLPUR SRINIK E TAN	62959304 41														
PANDU TUDU	LET- MANIK TUDU	KEUDAH A	BOLPUR SRINIK E TAN	98127859 16														
RABIN MURM U	LET- CHARA N MURMU	KEUDAH A	BOLPUR SRINIK E TAN	84570273 49														
BUDI MURM U	LET- SHANTI MURMU	KEUDAH A	BOLPUR SRINIK E TAN	62943793 72														
SHANK AR KISKU	LET- SOM KISKU	BARADA NGA	BOLPUR SRINIK E TAN	70765609 96														
SOM MARD DI	LET- SHAMA L MADDI	BARADA NGA	BOLPUR SRINIK E TAN	96098146 29														
MANG AL HEMB RAM	LET- SUBAL HEMBR AM	KAPASTU KRI	BOLPUR SRINIK E TAN															
SOM MURM U	MAHAN MURMU	KEUDAH A	BOLPUR SRINIK E TAN	98510292 37														

HEML AL HEMB RAM	LET- BHIM HEMBR AM	KUSHUD ANGA	BOLPUR SRINIK E TAN	98731205 9														
RUTUI KISKU	LET- VATE KISKU	BERUGRA M	BOLPUR SRINIK E TAN	84364153 08														
JAHAN HEMB RAM	SUKLAL HEMBR AM	PALASHD ANGA	BOLPUR SRINIK E TAN	62940225 26														
BURO KISKI	LET- DEBA KISKU	BARADA NGA	BOLPUR SRINIK E TAN	96098146 29														
SAGAR MURM U	LET- GAJO MURMU	GORAI PUR	BOLPUR SRINIK E TAN	95630875 45														

Signature of Programme Co-coordinator