

**CLUSTER FRONTLINE DEMONSTRATION OF RABI / SUMMER PULSES (2020-21) PERFORMANCE DATA**

**REPORTING FORMAT KVK WISE**

1. Name of KVK: Kendrapara

2. Host Institution: OUAT

5. District: Kendrapara

7. Performance of the demonstration:

A. Technical Parameters:

2. Year of establishment:1996

4. Address:Jajanga, Kapaleswar, Kendrapara,754211

6. State: Odisha

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	Greengram	Local	4.3	403	365	800	IPM 2-14 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	25	10	5.8	4.8	5.3	-	-	38

2	Blackgram	Local	4.2	395	350	750	PU 31 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	25	10	6.0	5.3	5.65	-	-	43
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### 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	IPM 2-14 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot	21500	30100	8600	1.40	24500	37100	12600	1.51

	management, sucking pest and pod borer management								
2	PU 31 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	21000	30200	9200	1.43	26000	40300	14300	1.55

### 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	IPM 2-14 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and	540	400	70	70	90	Day today need	32



1	IPM 2-14 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer management	Very much suitable	Yes	Yes	No	Yes	Establishment of processing unit and value addition
2	PU 31 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot management, sucking pest and pod borer	Very much suitable	Yes	Yes	No	Yes	Establishment of processing unit and value addition

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#### E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Variety IPM 2-14 which is resistant to YMV	Improved management practices enhanced the yield upto 5.8q/ha	Increase in yield of 32 % over the local check	Farmers are satisfied with the variety and technology
Variety PU 31 which is resistant to YMV	Improved management practices enhanced the yield upto 6 q/ha	Increase in yield of 34 % over the local check	Farmers are satisfied with the variety and technology

#### F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Field day	03. 03. 2021, Kasotibali, Marshaghai	50
2	Field day	24. 02. 2021, Ratanpur, Marshaghai	50


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





**9. Farmers' training photographs**



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





### 11. Details of budget utilization

Crop (provide crop wise information )	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Pulse	i) Critical input	160920	160920	Nil
	ii) TA/DA/POL etc. for monitoring	8000	8000	Nil
	iii) Extension Activities (Field day)	7500	7500	Nil
	iv)Publication of literature/ Misc	2380	2380	Nil
	Total	178800	178800	Nil

## 12. List of Farmer under FLD (Crop wise)

### a) Crop1: Greengram

Name of farmer	Father's name	Village	Block	Mobile No.	Email ID/Aadhar No	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Area (ha)	Brief technology intervention	Variety	Seed quantity used	Demo. Yield (q/ha)	Yield of local check q/ha	% increase
						Latitude	Longitude									
Bipin Bihari Behera	Pitambar Behera	Kasotibali	Marshaghai	9090731889	250766961591	N20025'17"	E086028'38.60"	Yes	20-40-40 N-P2O5-K2O	0.4	IPM 2-14 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powdery mildew and root rot manag	IPM 2-14	8 kg	5.7	4.3	32.6

											ement , suckin g pest and pod borer manag ement					
Sachi danan da Behera	Pitambar Behera	Kasotib ali	Marsh aghai	760681 5045	26918 10059 16	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	IPM 2-14	8 kg	5.6	4.3	30. 2
Dillip Kumar Behera	Nani Behera	Kasotib ali	Marsh aghai	797897 7209	84965 10959 51	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	IPM 2-14	8 kg	5.4	4.3	25. 6
Aruna Kumar Behera	Anam Charan Behera	Kasotib ali	Marsh aghai	765385 4021	79886 61326 78	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	IPM 2-14	8 kg	5.3	4.3	23. 3
Padm anav Sama ntray	CR Prasad Samantra y	Kasotib ali	Marsh aghai	986121 8275	82689 31648 99	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	IPM 2-14	8 kg	4.9	4.3	14. 0
Kailas h Chand ra Behera	Jasobant a Behera	Kasotib ali	Marsh aghai	993791 8026	40365 80241 89	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	IPM 2-14	8 kg	4.8	4.3	11. 6
Akuli Charan Behera	Jasobant a Behera	Kasotib ali	Marsh aghai	966831 3882	57219 99119 27	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	IPM 2-14	8 kg	4.9	4.3	14. 0

Kapila Charan Behera	Jasobanta Behera	Kasotibali	Marshaghai	7377768159	308503922742	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.2	4.3	20.9
Abhaya Kumar Behera	Hrushikesh Behera	Kasotibali	Marshaghai	9937247274	438885066577	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.8	4.3	34.9
Nirmal Das	Nauri Das	Kasotibali	Marshaghai	9178392108	554809976749	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.4	4.3	25.6
Sricharan Das	Chandramani Das	Kasotibali	Marshaghai	9078726683	857334995063	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.2	4.3	20.9
Surendra Kumar Das	Nauri Das	Kasotibali	Marshaghai	8117016263	435559510160	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.6	4.3	30.2
Bhagirathi Basantia	Baikuntha Basantia	Kasotibali	Marshaghai	9583798559	897539137695	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.4	4.3	25.6
Tanuranjan Behera	Akuli Charan Behera	Kasotibali	Marshaghai	9439437460	566473461568	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.5	4.3	27.9
Biswanandan Das	Bijaya Kumar Das	Kasotibali	Marshaghai	9937487821	426043659841	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.1	4.3	18.6
Ramakanta Behera	Sudhakar Behera	Kasotibali	Marshaghai	7789928293	257492813287	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5	4.3	16.3
Rabinarayan	Trilochan Behera	Kasotibali	Marshaghai	8598859578	6934637297	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-	0.4	do	IPM 2-14	8 kg	5.3	4.3	23.3

Behera					87				K2O							
Jasobanta Prasad Behera	Biswanath Behera	Kasotibali	Marshaghai	6372381102	487490133974	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.2	4.3	20.9
Nirmal Prasad Behera	Braja Kishore Behera	Kasotibali	Marshaghai	8895448040	985506697329	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.1	4.3	18.6
Sudhansu Behera	Gobinda Chandra Behera	Kasotibali	Marshaghai	9861111471	957910605706	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.4	4.3	25.6
Kshirod Chandra Behera	Dharanidhar Behera	Kasotibali	Marshaghai	7377046184	488327121713	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.7	4.3	32.6
Amiya Kumar Behera	Bhagabata Behera	Kasotibali	Marshaghai	9861475247	396887978646	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.2	4.3	20.9
Ranjankumar Behera	Pareswar Behera	Kasotibali	Marshaghai	7683988207	823645440832	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	4.9	4.3	14.0
Mrutyunjaya Behera	Lokanatha Behera	Kasotibali	Marshaghai	7205206921	482917864670	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.2	4.3	20.9

Aspad Samantaray	Nabin Kishore Behera	Kasotibali	Marshaghai	9938387098	614639362942	N20 <sup>0</sup> 18'31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	IPM 2-14	8 kg	5.3	4.3	23.3
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**b) Crop2 Blackgram**

Name of farmer	Father's name	Village	Block	Mobile No.	Email ID/Aadhaar No	GPS Coordinates (DDMMSS format)		Soil testing done (Yes/No)	Recommendations based on soil test value	Area (ha)	Brief technology intervention	Variety	Seed quantity used	Demo. Yield (q/ha)	Yield of local check q/ha	% increase
						Latitude	Longitude									
Nimai Charan Barik	Dhruva Charan Barik	Ratanpur	Marshaghai	7751943667	771019103206	N20 <sup>0</sup> 18'31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	PU 31 variety + Seed treatment (Chemical and biofertilizer)+ weed management through pre and post emergence herbicide, powder	PU31	8 kg	5.5	4.2	31.0

											milde w and root rot manag ement , suckin g pest and pod borer					
Nathu ram Mallic k	Sankar Mallick	Ratanp ur	Marsh aghai	789412 7317	27197 23223 79	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	PU31	8 kg	5.6	4.2	33. 3
Samee r Das	Dhadi Das	Ratanp ur	Marsh aghai	799100 3722	57034 82242 50	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	PU31	8 kg	5.3	4.2	26. 2
Balara m Das	Garuda Das	Ratanp ur	Marsh aghai	845586 9890	42206 91750 62	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	PU31	8 kg	5.8	4.2	38. 1
Chaita nya Das	Bichitran anda Das	Ratanp ur	Marsh aghai	986141 2191	84576 21485 21	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	PU31	8 kg	5.9	4.2	40. 5
Bhagy adhar Das	Mayadha r Das	Ratanp ur	Marsh aghai	834291 6706	69633 33210 45	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	PU31	8 kg	5.4	4.2	28. 6
Damo dar Swain	Chandra mani Swain	Ratanp ur	Marsh aghai	977783 1145	43048 94385 56	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	PU31	8 kg	5.6	4.2	33. 3
Arati Das	Mayadha r Das	Ratanp ur	Marsh aghai	834291 6706	22508 58549 02	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	PU31	8 kg	5.5	4.2	31. 0
Gitanj ali Das	Sarat Chandra Das	Ratanp ur	Marsh aghai	977789 5769	81849 66746 61	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5- K2O	0.4	do	PU31	8 kg	5.6	4.2	33. 3
Bibhu ti	Nishakar a Das	Ratanp ur	Marsh aghai	966857 7535	87451 47896	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5-	0.4	do	PU31	8 kg	5.7	4.2	35. 7

bhusan Das					57				K2O							
Bhikai Mallick	Sankarsana Mallick	Ratanpur	Marsh aghai	7879458715	376886498266	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.8	4.2	38.1
Anjana Mallick	Trilochana Mallick	Ratanpur	Marsh aghai	9178977758	802887527174	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.9	4.2	40.5
Sita Swain	Rabindra Swain	Ratanpur	Marsh aghai	9668547125	920357837573	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	6	4.2	42.9
Narayan Das	Daitari Das	Ratanpur	Marsh aghai	6371745881	893253474488	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.6	4.2	33.3
Kanduri Behera	Ratnakar Behera	Ratanpur	Marsh aghai	9556632128	244114566079	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.7	4.2	35.7
Ashok Swain	Sudam Swain	Ratanpur	Marsh aghai	8018349233	578663999018	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.8	4.2	38.1
Pratap Swain	Sura Swain	Ratanpur	Marsh aghai	6370748886	438560125073	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.4	4.2	28.6
Chitta Ranjan Mallick	Soubhagya Mallick	Ratanpur	Marsh aghai	9668820368	347219963686	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.5	4.2	31.0
Anjali Mallick	Dala Mallick	Ratanpur	Marsh aghai	7608888721	552351415013	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.6	4.2	33.3
Ranjan Mallick	Sura Mallick	Ratanpur	Marsh aghai	7064190590	214260479744	N20 <sup>0</sup> 18'.31"	E086 <sup>0</sup> 26'12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.8	4.2	38.1
Nirma	Sarat	Ratanpur	Marsh	828003	44581	N20 <sup>0</sup> 18	E086 <sup>0</sup> 26'	Yes	20-40-40	0.4	do	PU31	8 kg	5.6	4.2	33.



l Das	Chandra Das	ur	aghai	6590	34918 45	'.31"	12.205"		N-P2O5-K2O							3
Kishore Chand ra Das	Krushna Chandra Das	Ratanpur	Marsh aghai	986172 9549	25094 53270 84	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.7	4.2	35.7
Pratap Chand ra Das	Nanda Das	Ratanpur	Marsh aghai	620226 6215	50732 00748 68	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.4	4.2	28.6
Babaji Sagar	Laxmidh ara Sagar	Ratanpur	Marsh aghai	720524 4088	38719 48635 55	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.6	4.2	33.3
Bharat Chand ra Das	Mayadh ar Das	Ratanpur	Marsh aghai	917820 2002	90031 54842 63	N20 <sup>0</sup> 18 '31"	E086 <sup>0</sup> 26' 12.205"	Yes	20-40-40 N-P2O5-K2O	0.4	do	PU31	8 kg	5.7	4.2	35.7

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Signature of Head of Organization

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Signature of Programme Co-coordinator