ANNUAL REPORT2021 (January-December 2021)

1. GENERAL INFORMATION ABOUT THE KVK

KrishiVigyan Kendra, Ganjam-II was established by ICAR in June 2012 under the control of OUAT at Ratanpur farm. At present it is operating in new location at Golanthara, block-Rangeilunda. It is surrounded by Kandhamal in the North-West, Nayagarh in the North, Khurda in the North-East, Gajapati district in the West and Bay of Bengal in the South-East. On its Southern periphery the district borders the state of Andhra Pradesh. Ganjam district is broadly divided into two divisions spreading over an area of 8206.0 Sq.km. The plains lies between the Eastern Ghats and the Bay of Bengal. Since the hills are close to the sea, the rivers flowing from hills are not very long and are subject to sudden floods. The plains are narrow because of the absence of big rivers. The coastal plains in the east contain more fertile and irrigated lands. The south eastern portion is fertile. Ganjam economy is predominantly agrarian. Around 80 percentage of the population depends on agriculture and allied activities. The long sea and Chilika coast line is a source of rich marine products and lime shells. Ganjam is a major salt producing district in the state.

KVK serves as the knowledge hub and resource centre of agricultural technologies for the farmers of the district. It operates as per mandates of ICAR for the upliftment of socio-economic condition of the farming community. Ganjam-II is the 2nd Krishi Vigyan Kendra of Ganjam district and lies between $19^0$4' to $20^0$17' Latitude and $84^0$7' to $85^0$12' Longitude

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
KrishiVigyan Kendra, Ganjam-II At: Golanthara; P.O: Golanthara; Berhampur; Dist: Ganjam; Odisha – 761008	09937789325		kvkganjam2.ouat@gmail.com

1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Orissa University of Agriculture and Technology **Bhubaneswar -751003Orissa**			

1.3. Name of Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr (Mrs.) Susmita Mohanty		09937789325	susmitamohant46@gmail.com

1.4. Year of sanction of KVK: 2012

1.5. Staff Position (**as on 1st Jan, 2021)**

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/ Temporary	Category (SC/ST/OBC/ Others)
1	Senior Scientist& Head	Dr (Mrs.) Susmita Mohanty	Sr. Scientist & Head	Home Sc	79800-211500 Rs. 104100	21.05.2018	Permanent	Others
2	Subject Matter Specialist	Sri Sasank Lenka	Scientist (Extension.)	Agril. Extension	57700-182100 Rs. 77500	01.7.2016	Permanent	Others
3	Subject Matter Specialist	Sri Debasis Sarangi	Scientist (Soil Sc.)	Soil Sc	57700-182100 Rs. 87200	01.09.2012	Permanent	Others
4	Subject Matter Specialist	Smt Sushree Choudhury	Scientist (Hort.)	Horticulture	57700-182100 Rs. 87200	13.6.2012	Permanent	Others
5	Subject Matter Specialist	Sri Sidhartha Sankar Das	Scientist (Fishery)	Fishery Sc.	57700-182100 Rs. 79800	23.6.2012	Permanent	Others
6	Subject Matter Specialist	Mrs Kabita Mishra	Scientist (Agronomy)	Agronomy	15600-39100,GP-6000 Rs.19810	12.05.2015	Permanent	Others
7	Subject Matter Specialist	Mr Sandeep Mohanty	Scientist (Plant Protection)	Plant Protection	15600-39100,GP-6000 Rs. 22220	12.06.2018	Permanent	Others
8	Programme Assistant							
9	Computer Programmer	Sri Bhakti Ranjan Palai	Prog. Asst.(Comp.)	Computer Sc.	35400-112400 Rs. 55200	18.06.2012	Permanent	Others
10	Farm Manager	Sri Rabi Sankar Mishra	Farm Manager	Plant Protection	35400-112400 Rs. 47600	08.06.2021	Permanent	Others
11	Accountant / Superintendent							
12	Stenographer	Sri Saubhagya Ranjan Das	Steno–cum-Comp. Operator	-	25500-81100 Rs. 30500	15.02.2014	Permanent	Others
13.	Driver	Sri Simanchal Sahu	Driver-cum-Mechanic	-	19900-63200 Rs. 28400	04.07.2012	Permanent	Others
14.	Driver	Sri Rabi Narayan Mohapatra	Driver-cum-Mechanic	-	19900-63200 Rs. 26800	30.05.2018	Permanent	Others
15.	Supporting staff	Sri Bisia Pradhan	Peon-cum-Watchman	-	16600-52400 Rs. 22900	07.10.2013	Permanent	Others
16.	Supporting staff	Sri Gajendra Pradhan	Peon-cum-Watchman	-	16600-52400 Rs. 22200	14.07.2014	Permanent	Others

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.73
2.	Under Demonstration Units	2
3.	Under Crops	11
4.	Orchard/Agro-forestry	2
5.	Others with details	-
	Total	15.73

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building	-	-	-	√	-	267.28	-	ICAR
2.	Farmers Hostel	√	-	-	-	-	300	-	ICAR
3.	Staff Quarters (6)								
4.	Piggery unit								
5	Fencing				-	Completed	-	-	RKVY
6	Rain Water harvesting structure								
7	Threshing floor								
8	Farm godown								
9.	Dairy unit								
10.	Poultry unit								
11.	Goatary unit								
12.	Mushroom Lab								
13.	Mushroom production unit								
14.	Shade house								
15.	Soil test Lab								
16	Others,Please Specify								

* If not in use then since when and reason for non-use

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Tractor	2016	529345	385 hrs	Good condition

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Soil Equipment	2017	85400	Running	ICAR
Lab equipment for Home Sc	2018	50000	Running	ICAR
b. Farm machinery				
c.AV Aids				
Laptop	2017	38400	Running	ICAR
Pico projector	2017	17467	Running	ICAR
Handy Cam	2018	31000	Running	ICAR
Camera	2018	23500	Running	ICAR
Projector	2017	38858	Running	ICAR

D) Farm implements

Name of equipment	**Year of purchase**	**Cost (Rs.)**	**Present status**	**Source of fund**
Power Operated	2017	15238	Running	ICAR
Gaured tiller	2016	96900	Running	ICAR
HP pump	2017	65918	Running	ICAR
Accemor	2017		Running	ICAR
MB plough	2017		Running	ICAR

1.8. Details of SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	09.02.2021	37	New generation pesticides should be included in fishery activities.	• Application of **Cypermethrin** along with **Ivermectin** has been included in the OFT programme and communicated to farmers through farm-advisory service and KMAs. • No of Farmer covered -29 • Area covered -18.50 ha • Villages covered- Gautami, Kalajamuna, Rangailunda, Allipur, Humma, Dayapalli, and Podingi • KMAs- 5 • Season- Kharif (round the year)	
			Introduction of new varieties of the crop should be	• Rice- CR-800,CR-310, CR-311 • Blackgram- OBG-33	

			based on the cropping system of the AES	• Arhar- BRG-2, 4 • Ragi- Kalua & Arjuna under demonstration. • Drum stick- Bhagya, PKM-1 • Tomato- Arka Rakshak, Arka Samrat • Chilli- Arka Harita-31, Arka Meghana-35 • Brinjal- Swarna Syamali • Pointed gourd- Swarna Alukik, Swarna Rekha • Poultry- Kadaknath • Tuberose- Arka Prajwal, Arka Nirantar • Fishery- Amur carp • Farmers Covered- 290 • Area-283 ha	
			Technology on higher production and productivity of desi onion is to be disseminated	• Training and awareness programme conducted on scientific cultivation and seed production of desi onion. • Hybrid Onion **var. Red-3** has been demonstrated in farmers' fields under the SCSP demonstration programme. • No of Farmers covered- 42 • Area covered-3 ha • Villages-R.Sumandi, Kulihala, Padadiki, Mendhrajpur&Dengapadar • Season- Rabi 2021-22 • Yield increased- from **246 q/ha to 350-400 q/ha**	
			INM in green gram has to be demonstrated for yield increase	• OFT and Cluster demonstration on INM in green gram (IPM **02-14, Virat IPM -205-7**) for yield enhancement has been conducted • INM- **STBF+FYM@5ton/ha+Lime@5qt/ha+ Seed inoculation with Rhizobium @ 20gm/kg** of seed and **PSB @4kg/ha** • No of Farmers covered- 60 • Area covered-15 ha • Villages covered- Kusapada, Tumba, B. Saradapur, Titigaon, Rajnapalli, Sana Biswanathpur • Season- Rabi 2020-21 • Yield increased from- 5.1 to 6.7 qt/ha	

			Training and demonstration on aphid management in Marigold has to be taken up	• Imparted need based **trainings to farmers on** aphids management with recommendation of new generation pesticides . • **Acephate + Immidachloprid @2gm/lit or oxydementon – methyl @ 2ml/lit. of water** • No of Farmers covered- 25 • Area covered-5 ha • Villages covered- Golanthara, Kusumi • Season- Rabi 2021-22	
			Joint visits have to be conducted to adopted villages for better impact	• Joint field visits have been conducted in various programmeswith AAO, AHO, AFO, BAO, DAO, DDH and CDAO in most of the blocks	
			FLD on disease management in Biofloc fish farming and awareness for its intensification is to be taken care of by KVK	• A WhatsApp Group FISH farmers and Officials have been created in Ganjam district • From time-to-time Biofloc issues are addressed by officials to farmers • Mass awareness through Tv Talk (10 Nos) and the booklet have been developed and distributed to the needy farmers. • **Biofloc Unit** reached- **22 Nos. in the districts** • No of training conducted-03 Nos (F/FW-01, RY-01, Ins-01) • Now farmers are more interested inBiofloc	
			New generation pesticides should be included in the FLD programme	• Conducted demonstration on BPH in rice • Need base alternate spraying of **Flonicamid** @175gm/ha • Pymetrozine @ 250gm/ha with neem oil @2.5ml/lit of water. • Installation of Spider trap@25/ha • No of Farmers covered- 10 • Area covered-2 ha • Villages covered- Kusapada, Ganjam • Season- Rabi 2021-22	
			Awareness & demonstration on under exploited	• Trainings and demonstrations on scientific cultivation of underexploited vegetables like a **little**	

			vegetable has to be included in KVK programme	**gourd**, ***Ghia kunduri***, ***Deshi*** **onion** sweet potato, elephant foot yam etc. have been conducted. • No of Farmers-45 • Area Covered- 16 ha • Villages covered- 32 villages • A WhatsApp Group created **i.e., Annadata** • TV Talk Telecasted -24	
			KVK should demonstrate technologies in identified farmer's fields under TARA scheme.	• During the year 2021-22 TARA farmers covered under FLD, OFT and capacity building programs of different disciplines. • Farmers covered- 25 nos. • KVK extended all possible technical know-how to farmers on field crops, fruits, vegetables and flowers.	
			Training on spawn production and value addition of mushrooms should be included in the action plan	• Conducted 2 nos. training on mushroom spawn production to the mushroom farmers • Imparted training in convergence TATA Trust for more transformation of technologies to farmers. • Value addition of Oyster mushroom production will be taken up in Feb 2022. • OFT and FLD has been conducted on mushroom production. • Farmers covered- 30 • Villages covered- 10 • Horizontal spread-27 villages • Now mushroom farmers became agripreneurs	
			Varieties suitable under perennial fodder cultivation are to be demonstrated	• Technical know-how has been extended to farmers on Hybrid Napier grass (CO-2, CO-3, CO-4), Para, Dinanath, Azolla, Stylo and Gini grass.	
			Faba bean should be continued in the coming year, 2021-22.	• Due to non availability of seeds this programme could not be taken up however it will be conducted in Kharif 2022.	

** Salient recommendation of SAC in bullet form*

Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2020-21)

<table>
<tr><th>Sl. no.</th><th>Item</th><th>Information</th></tr>
<tr><td>1</td><td>Major Farming system/enterprise</td><td>Paddy-pulse (Green gram, Black gram)
Paddy- groundnut
Paddy-Vegetables (Solanaceous , Cole crops and cucurbits)
Floriculture –vegetable –apiculture
Vegetable- vegetable (Kharif tomato, radish, Cauliflower-Vegetables)
Paddy - mustard
Paddy + vegetable + Fishery +Duckery
Ground nut- pulses
Pulses-Vegetable
Paddy + fodder + Diary + goatery
Mango + Spices (Ginger and turmeric) +Poultry
Agriculture-horticulture –mushroom- poultry -
Ragi + Pulse
Maize-Vegetable
Paddy-Mustard-Vegetable (Tomato)
Paddy- Fallow</td></tr>
<tr><td>2</td><td>Agro-climatic Zone</td><td><u>East & South Eastern Coastal Plain Zone</u></td></tr>
<tr><td>3</td><td>Agro ecological situation</td><td>East and South East Coastal Plain zone
<table>
<tr><th>Agro-Ecological Situation</th><th>Name of the Blocks covered</th></tr>
<tr><td>1. Coastal Irrigated Alluvium</td><td>Chikiti, Rangailunda, Chatrapur, Ganjam</td></tr>
<tr><td>2. RainfedAlluvium</td><td>Patrapur, Chikiti, Rangailunda</td></tr>
<tr><td>3. Coastal Alluvial Saline</td><td>Chikiti, Ranhgailunda, Chatrapur, Ganjam, Khallikote</td></tr>
<tr><td>4. Rainfed Laterite</td><td>Patrapur, Kukudakhandi, Sanakhemundi, Chatrapur, Hinjili, Khallikote, Polsara, Kodala, Kabisuryanagar</td></tr>
<tr><td>5. Rainfed Red and Laterite</td><td>Chikiti, Kukudakhandi, Hinjili, Khallikote, Sanakhemundi, Rangailunda, Digapahandi, Purusottampur, Kabisuryanagar</td></tr>
<tr><td>6. Mixed Black & alluvium</td><td>Ganjam, Chhtrapur</td></tr>
</table></td></tr>
<tr><td>4</td><td>Soil type</td><td>East & South Eastern Coastal Plain Zone
i) Alluvial soil-71000 ha
ii) Red soil -232000ha
iii) Saline soil -26000 ha</td></tr>
<tr><td>5</td><td>Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others</td><td>Paddy- 43 q/ha , Maize: 27 q /ha, Greengram- 8 q / ha , Blackgram- 15 q/ha
Brinjal- 129 000mt),Tomato: 56870 mt
Cauliflower</td></tr>
<tr><td>6</td><td>Mean yearly temperature, rainfall,</td><td>Temperature</td></tr>
</table>

	humidity of the district	Maximum: 34^0 C, Minimum: 18.9^0 C ***Normal rainfall :*** 1295.6 mm
7	Production of major livestock products like milk, egg, meat etc.	

Note: Please give recent data only

Area, Productivity & production of Major crops of Ganjam district

Sl.No.	Name of the crop	Kharif			Rabi		
		A (000ha)	Y (kg/ha.)	P (000MTS)	A (000ha.)	Y (kg/ha)	P (000MTS)
01	Paddy	251.32	2800	703.396			
02	Green gram	3.58	455	1.63	155.84	521	81.19
03	Ragi	45.0	895	40.28	0.94	1003	2.44
04	Black gram	16.38	466	7.63	32.80	468	15.35
05	Groundnut	11.40	1250	14.25	18.68	1928	36.02
06	Sesamum	11.63	414	4.81	14.57	420	6.12
07	Pigeonpea	13.6	934	12.7			
08	Maize	10.95	2282	27.66	0.93		
09	Horsegram				11.92	378	4.51
10	Sunflower				0.49	1115	0.55

Area, Productivity& production of Major Horticulture crops of Ganjam district

Sl.No.	Name of the crop	Area (In '000 ha)	Productivity (in Kg./ha)	Production (in '000 MT)
01	Brinjal	5.02	25750	129.16
02	Cabbage	1.51	27920	42.05
03	Cauliflower	2.41	14760	35.56
04	Okra	3.46	8760	30.33
05	Pea	0.34	9060	3.07
06	Chilli	5.42	1360	7.37
07	Tomato	4.42	12870	56.87
08	Onion	0.59	8650	5.11
09	Potato	0.36	15120	5.49
10	Sweet Potato	7.52	9780	73.55
11	Radish	0.54	11750	6.38

2.b. Details of operational area / villages (2021)

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1	Chhatrapuhr	Chhatrapur	Rajanapalli	Rice, Maize, Pigeonpea, Greengram, Blackgram, Sesamum, Ground nut,Vegetable	• Severe weed incidence in paddy • Blast disease in paddy • Low yield in arhar • Use of traditional verities of green gram • Improper nutrient management green gram	• Varietal substitution • weed management • Pest & diseases management • Integrated nutrient management • Targeting rice fallow
2	Chhatrapuhr	Rangeilunda	Putipadar	Rice,Sugarcane, Blackgram, Greengra m, Mustard, Sesamum	• Severe weed incidence in paddy • Low yield in mustard • Use of traditional verities of green gram • Improper nutrient management green gram	• weed management • Pest & diseases management • Integrated nutrient management • Targeting rice fallow • Varietal substitution
3	Chhatrapuhr	Ganjam	Jharapadar	Rice, Maize, Pigeonpea, Greengram, Blackgram, Sesamum, Ground nut,Vegetable	• Severe weed incidence in paddy • Low yield in arhar • Use of traditional verities of green gram • Improper nutrient management green gram	• weed management • Pest & diseases management • Integrated nutrient management • Targeting rice fallow • Varietal substitution
4	Berhampur	Patrapur	Narayanpur	Rice, Blackgram, Green gram, Groundnut	• Severe weed incidence in paddy • Use of traditional verities of green gram • Improper nutrient management in green gram	• weed management in rice • Pest & diseases management • Integrated nutrient management • Targeting rice fallow • Varietal substitution

5	Berhampur	Chikit	Panada	Rice, Greengram, Blackgram, Sesamum, Vegetable	• Use of traditional verities of green gram • YMV infection in green gram • Severe weed incidence in paddy	• weed management in rice • Pest & diseases management • Integrated nutrient management • Targeting rice fallow • Varietal substitution
6	Berhampur	Rangelunda	Sanabiswanathpur	Rice, Greengram, Blackgram, Sesamum, Vegetable	• Use of traditional verities of green gram • YMV infection in green gram • Severe weed incidence in paddy	• weed management in rice • Pest & diseases management • Integrated nutrient management • Targeting rice fallow • Varietal substitution

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2018-19) for its development and action plan

Name of village	Block	Activities taken up for development
Chhatrapur	Rajanapalli	OFT, FLD, Training, field day, diagnostic field visit
Rangeilunda	Putipadar	OFT ,FLD, Training, field day, diagnostic field visit
Ganjam	Jharapadar	OFT ,FLD, Training, field day, diagnostic field visit
Patrapur	Narayanpur	OFT ,FLD, Training, field day, diagnostic field visit
Chikit	Panada	OFT ,FLD, Training, field day, diagnostic field visit
Rangelunda	Sanabiswanathpur	OFT ,FLD, Training, field day, diagnostic field visit

3. TECHNICAL ACHIEVEMENTS

A.Details of target and achievement of mandatory activities by KVK during the year

OFT												FLD										
No. of technologies tested:												No. of technologies demonstrated:										
Number of OFTs		Number of farmers										Number of FLDs		Number of farmers								
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement							
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
12	12	110	18	4	6	3	60	19	60	50	110	24	24	257	45	21	29	9	115	40	187	70	257

Training												Extension activities										
Number of Courses		Number of Participants										Number of activities		Number of participants								
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement							
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
105	105	2265	368	220	28	56	1130	477	1523	742	2265	500	590	20000	502	203	403	145	19987	2520	20892	2868	23760

Impact of capacity building											Impact of Extension activities										
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
0.30	0.42	200	500

* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper							
Seminar/conference/ symposia papers							
Books	3	1500					
Bulletins							
News letter	1	200					
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature	2	1000					
Technical reports	25						
Electronic Publication (CD/DVD etc)	2						
TOTAL	33	2700					

1 Achievements on technologies assessed and refined

OFT-1 Rabi 2020-21(Agronomy)

1.	Title of On Farm Trial	Assessment on chemical weed management in blackgram
2.	Problem diagnosed	Low yield due to severe weed infestation and high cost of manual weeding
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed FP: No use of herbicide TO1: **Pendimethalin 30%EC @ 1kg a.i/ha at 2 DAS as pre emergence**(: Belongs to Dinitroanilines group and applied as Pre-emergence. It controls most annual grasses and broad leaf weeds. **Pendimethalin** inhibits root and shoot growth. It controls the weed population and prevents weeds from emerging, particularly during the crucial development phase of the crop. Its primary **mode of action** is to prevent plant cell division and elongation in susceptible species) TO2: **Pendimethalin 30%EC+ Imazethapyr 2% EC premix @1 kg a.i/ha at 2 DAS as pre emergence**(A new herbicide mixture for weed control in legumes. It has broad spectrum of weed control over grasses and broad leaf weeds.)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT 2011
5.	Production system and thematic area	Rice –pulse Weed management
6.	Performance of the Technology with performance indicators	TO2 recorded highest weed control efficiency than other two practices i.e TO1 and farmer practice
7.	Final recommendation for micro level situation	Application of Pendimethalin 30%EC+ Imazethapyr 2% EC premix @1 kg a.i/ha at 2 DAS as pre emergence recommended as bestweed management practice on the basis of better weed control, crop yield and economic indices.
8.	Constraints identified and feedback for research	Line sowing of blackgram is preferable for spraying of herbicide. Farmers are more interested for weed management in paira cropping system.
9.	Process of farmers participation and their reaction	Training, Group discussion

Thematic area: WEED MANAGEMENT

Problem definition: Low yield due to severe weed infestationand high cost of manual weeding

Technology assessed: Assessment on chemical weed management in blackgram

FP: No use of herbicide

TO1: Pendimethalin 30%EC @ 1kg a.i/ha at 2 DAS as pre emergence

TO2: Pendimethalin 30%EC+ Imazethapyr 2% EC premix @1 kg a.i/ha at 2 DAS as pre emergence

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of Pods/plant	No. of seeds/pod	Test wt. (100 grain wt.)						
FP	7	17.3	4.92	42.12	YMV	4.1	10,985.00	24,600.00	13,615.00	2.24
TO1		25.1	5.51	46.49		6.2	12,983.00	37,200.00	24,217.00	2.86
TO2		27.23	5.9	49.23		6.9	13,652.00	41,400.00	27,748.00	3.03

OFT-2(Kharif 2021) (Agronomy)

1.	Title of On Farm Trial	**Assessment of biofortified rice varieties**
2.	Problem diagnosed	Low nutritional value from old existing varieties
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed **FP :** Cultivation of Rice variety LALAT **TO1**: Cultivation of rice variety **CR DHAN 310** (medium duration (120-125 days), semi-dwarf plant type (110 cm) with medium slender and good grain quality. It is suitable for irrigated and favorable shallow rainfed areas. National average of grain yield is 4.5 t ha-1 and it contains average 10.2% protein in polished rice) **TO2 :**Cultivation of rice variety **CR DHAN 311** (:Medium duration(120-125 days),semi dwarf plant (110cm),medium slender, good grain quality, high protein rice 10.1% protein and moderately high level of Zn content(20ppm) in polished rice.National average of grain yield is 4.3t/ha. In Odisha grain yield 5.5 t/ha.)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source: NRRI,CUTTACK , 2019)
5.	Production system and thematic area	Rainfed-mediumland Rice-pulse
6.	Performance of the Technology with performance indicators	Rice variety CR DHAN 311 recorded higher grain yield, higher tillering capacity than FP and TO1.
7.	Final recommendation for micro level situation	Rice variety CR DHAN 311 identified as a better biofortified rice variety than CR DHAN 310

8.	Constraints identified and feedback for research	In Rice variety CR DHAN 310 smut disease appeared and up to some extent lodging is found out.
9.	Process of farmers participation and their reaction	Training, Group Discussion, Field Day

Thematic area: VARIETAL REPLACEMENT

Problem definition: Low nutritional value from old existing varieties

Technology assessed: Assessment of biofortified rice varieties
FP : Cultivation of Rice variety LALAT

TO1: Cultivation of rice variety CR DHAN 310

TO2 : Cultivation of rice variety CR DHAN 311

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7	9		21		38.3	51,321.00	74,302.00	22,981.00	1.44
TO1		12		21.3		41.6	52,358.00	80,704.00	28,346.00	1.54
TO2		16		24.1		44.3	53,324.00	85,942.00	32,618.00	1.61

OFT -3 (Rabi 2020-21) Horticulture

1.	Title of On Farm Tria	**Assessment of chilli varieties**
2.	Problem diagnosed	Low yield due to incidence of powdery mildew

3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP- Cultivation of Daiya: compact plant with small size fruit, suitable for fresh chill purpose TO1: **Arka Meghna** is highly pungent, suitable for kharif & rabi seasons under irrigated conditions. Tolerant to powdery mildew and viruses . yields: 35-38t/ ha (fresh) & 5-5.5t/ha (dry), in 140-150 days. fruit length 17-18cm and width 1-1.2cm TO2: **Arka Harita is** pungent, moderately tolerant to powdery mildew, yield: 30-35t/ ha (fresh) & 4.5-5t/ha (dry) in 160 –180 days **,** fruit length 14-15cm and width 1-1.2cm
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR Bangalore .2014
5.	Production system and thematic area	Rice-vegetable/ Vegetable-Vegetable cropping system, Varietal evaluation
6.	Performance of the Technology with performance indicators	Fruit length(cm), powdery mildew %, fruit yield (q/ha) are the performance indicators
7.	Final recommendation for micro level situation	Both the Cultivars Arka Meghna and Arka Harita tolerant to powdery mildew
8.	Constraints identified and feedback for research	Wilting tolerant character need to be incorporated in these chilli varities
9.	Process of farmers participation and their reaction	Participatory approach in OFT and among the two varieties Arka Meghna is very pungent and used for dual (fresh & dry) purpose . Due to long fruit length and pungency it is mostly preferred for dry chilli and processing.

Thematic area: Varietal evaluation
Problem definition: Low productivity and less profit
Technology assessed: Technology option-I (TO-I) : chilli variety Arka Meghna .
Technology option-II (TO-II): chilli variety Arka Harita

Table:

Technology option	No. of trials	Yield component		Yield (q/ha)	% increase	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Fruit length (cm)	powdery mildew%						

FP	7	9.8	30%	142.5	-	208690	498750	290060	2.39
TO_1	7	16.2	7%	166.8	17.05	209840	585200	375360	2.78
TO2	7	14.3	12%	163.1	14.45	209740	567700	357960	2.70

OFT -4 (Kharif 2021) Horticulture

1.	Title of On Farm Trial	**Assessment of drumstick varieties for higher yield**
2.	Problem diagnosed	Low yield of local varieties
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP cultivation of local cultivars Mooniga plant with a height 5 to 6 m, flowering in 210 -240days, yield 40-100 pods per tree per year TO1: Bhagya: Plant Height 2.5 to 3.0 m, Flowering in 130 to 150 days, Yield 300 to 350 pods /year (Ist year), 800 to 1000 pods /year (Subsequent years), Yield- 42-50 t/ha, TO 2: PKM 1: Fruits are fleshy and tasty coming to flowering within 5-6 months after sowing and comes to harvest in 7-8 months. The pods mature 65 days after flowering. Average yield is 220 fruits per tree. Avg yield is 52 t/ha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source: TO1: Bhagya: UHS,Bagalkot , 2014 Source**:** TO 2: PKM 1: TNAU, Coimbatore,2008
5.	Production system and thematic area	Irrigated Upland ,Vegetable-Vegetable cropping system ,Varietal evaluation
6.	Performance of the Technology with performance indicators	Pod length, No of pods per plant, Pod yield (q/ha)
7.	Final recommendation for micro level situation	Continuing
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	NA

Thematic area: Varietal assessment
Problem definition:Low yield of local cultivars.
Technology assessed: Technology option-I (TO-I): Drumstick variety Bhagya.
Technology option-II (TO-II): Drumstick variety PKM-1

Table:

Technology option	No. of trials	Yield component		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant height(cm) at 120 DAP	Number of branches/plant					
FP	7	218.3cm	4.2	Continuing				
TO_1	7	157.5cm	6.8					
TO2	7	165.2cm	5.4					

OFT-5 (Soil Science) (Rabi2020-21)

1.	Title of On farm Trial	**Assessment of secondary (sulphur) and Micro (Boron) nutrient for curd quality and higher yield in cauliflower**
2.	Problem diagnosed	Low curd quality and low yield due to secondary and micro nutrient deficiency.
3.	Details of technologies selected for assessment/refinement	**FP-** Low curd quality and yield due to secondary and micro nutrient deficiency **T O_1 :** STBF (NPK) + Sulphur @ 30 kg ha^{-1} + Soil application of Boron@ 1 kg ha^{-1}as Borax as basal application **T O_2 :** STBF (NPK) +Sulphur @ 30 kg ha^{-1} + two foliar spray Borax @ 0.25% at 10 days interval starting from 30 days after planting
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on Micro and Secondary nutrients, OUAT, 2016
5.	Production system and thematic area	Vegetable-vegetable production system and INM
6.	Performance of the Technology with performance indicators	Application of STBF (NPK) + Sulphur @ 30 kg ha^{-1} + soil application of Boron @ 1 kg ha^{-1}increases the yield by 27.1%.
7.	Final recommendation for micro level situation	Sulphur is highly essential for cruciferous crops as it imparts characteristics flavour to the particular crop. Boron is also essential for high quality curd and more keeping quality of the cauliflower
8.	Constraints identified and feedback for research	Curd quality detoriate due to secondary and micro nutrient deficiency, hence sulphur and boron applied along with application of STBF (NPK).
9.	Process of farmers participation and their reaction	Participatory approach in OFT, Group discussion, training, Application of sulphur and boron resulted highest curd yield and curd weight.

Thematic area: INM
Problem definition: Low curd quality and low yield due to secondary and micro nutrient deficiency
Technology assessed: Assessment of secondary (sulphur) and Micro (Boron) nutrient for curd quality and higher yield in cauliflower
Table:

Technology option	No. of trials	Yield component		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	B:C ratio
		Curd weight (g)	Curd diameter (cm)					
FP	7	527.9	4.7	190.5	114650	285750	171100	2.49
TO_1	7	673.5	5.8	242.1	120560	363150	242590	3.01
TO_2	7	656.2	5.4	236.8	120060	355200	235140	2.95

OFT- 6 (Soil Science) (Rabi2020-21)

1.	Title of On farm Trial	**Assessment of integrated nutrient management on yield enhancement of green gram**
2.	Problem diagnosed	Low productivity due to improper nutrient management
3.	Details of technologies selected for assessment/refinement	**FP-** Application of chemical fertilizer (15:40:0 Kg N: P_2O_5 :K_2O /ha) only **TO_1 :** 100% STBF + FYM @5t ha^{-1} **TO_2 :** 100% STBF + FYM@5t ha^{-1}+ Rhizobium seed treatment@20g kg^{-1}seed+ Soil application of PSB @ 4 kg ha^{-1} **TO_3 :** 100% STBF + FYM@5t ha^{-1} + Lime @5q ha^{-1} + Rhizobium seed treatment@20g kg^{-1}seed+ Soil application of PSB @ 4 kg ha^{-1}
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AINP on soil biodiversity- Biofertilizers, 2017
5.	Production system and thematic area	Rice-Pulse production system and INM
6.	Performance of the Technology with performance indicators	INM based on STBF and seed treatment with Rhizobium along with soil application of PSB and lime enhance the green gram yield by 48%.
7.	Final recommendation for micro level situation	Integration of bio-fertilisers to STBF of fertilisers and FYM increases the yield by 22%. Application of lime @ 5q ha^{-1} along with biofertilizers increases yield by 48 %

8.	Constraints identified and feedback for research	Low productivity due to improper nutrient management and INM based on STBF and seed treatment with Rhizobium is necessary
9.	Process of farmers participation and their reaction	Participatory approach in OFT, Group discussion, training : application of soil test based NPK, biofertiliser along with lime increases yield

Thematic area: INM
Problem definition: Low productivity due to improper nutrient management
Technology assessed: Assessment of integrated nutrient management on yield enhancement of green gram
Table:

Technology option	No. of trials	Yield component	Yield (q/ha)	% increase in Yield	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	B:C ratio
		No. of pods/plant						
FP	7	10.4	5.0	-	22250	35980	13730	1.62
TO_1	7	13.2	5.8	16.0	24865	41737	16872	1.69
TO_2	7	14.3	6.1	22.0	25325	43896	18571	1.73
TO_3	7	16.6	7.0	40.0	27825	50372	22547	1.81

OFT- 7 (Soil Science) (Kharif 2021)

1.	Title of On farm Trial	**Assessment of integrated nutrient management on growth and yield of papaya**
2.	Problem diagnosed	Low fruit yield due to imbalance use of nutrient
3.	Details of technologies selected for assessment/refinement	**FP-** Application of chemical fertilizer NPK (200:200:200 g/plant)+FYM @1kg/plant **TO_1 :** 100% STBF (NPK) + FYM@ 20 kg/plant + Azotobacter@20g/plant +PSB@20g/plant **TO_2 :** 75% STBF(NPK)+ Azotobacter @100g/plant + PSB@ 100g/plant + Vermi compost @2kg/plant
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	**TO_1 :** Source: Department of Horticulture, N.D. University of Agriculture and Technology, Kumarganj, FAIZABAD, 2014 **TO_2 :**Source: CSAUAT, Kanpur, 202
5.	Production system and thematic area	Vegetable-Vegetable cropping system and INM

6.	Performance of the Technology with performance indicators	Continuing
7.	Final recommendation for micro level situation	Continuing
8.	Constraints identified and feedback for research	Continuing
9.	Process of farmers participation and their reaction	Continuing

Thematic area: INM
Problem definition: Low leaf quality and yield due to poor nutrient management
Technology assessed: Assessment of integrated nutrient management on growth and yield of papaya
Table:

Technology option	No. of trials	Days taken for first flowering	No. of leaves per plant				
FP	7	150.68	26.38				
TO_1	7	143.22	32.26				
TO_2	7	145.94	30.42				
Continuing							

OFT- 8 (Plant Protection) Kharif 21

1.	Title of On Farm Trial	**Assessment of Integrated disease management practices for Collar rot in Beetle vine**
2.	Problem diagnosed	Rotting disease, poor lusture. Low profitability.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Refinement FP: Spraying of Carbandazim@ 1kg/ha T O $_1$: Planting material treatment with *Trichoderma viridae*@ 10 gm/lt at the time of sowing and need base alternative spraying of chlorothalonil 75% wp @ 1.5 gm/lt and *Trichoderma viridae*@ 10 gm/lt at 15 days interval

		T O_2:Planting material treatment with Tebuconazole @ 1.5 gm/lt followed by furrow application o*f T. viride* @ 4kg enriched in 50kg FYM/ha as basal application, then broadcasting of *T. viride* @ 4kg enriched in 250kg FYM/ha at 40 DAS & two sprays of Tebuconazole @ 1gm/lt starting from initiation of foliar diseases and 2nd spray at 15 days interval
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TNAU, Annual report 2015-16 OUAT,BBSR.,2016
5.	Production system and thematic area	Beetle vine, IDM
6.	Performance of the Technology with performance indicators	No .of rotted plant/m2,Cost of intervention. Additional income over additional investment ,Yield (q/ha), B:C ratio,
7.	Final recommendation for micro level situation	Irrigated medium land
8.	Constraints identified and feedback for research	The yield increased by 23% by treating the planting material with Tebuconazole @ 1.5 g/lt followed by furrow application of T. viride @ @ 4kg enriched in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. starting from initiation of foliar diseases and 2nd spray at 15 days interval was given better result.
9.	Process of farmers participation and their reaction	Group discussion, training, Slide show.

Thematic area: IDM

Problem definition: Rotting disease, poor lusture. Low profitability.

Technology assessed:

FP: Spraying of Carbandazim@ 1kg/ha

T O_1: Planting material treatment with *Trichoderma viridae*@ 10 gm/lt at the time of sowing and need base alternative spraying of chlorothalonil 75% wp @ 1.5 gm/lt and *Trichoderma viridae*@ 10 gm/lt at 15 days interval

T O_2:Planting material treatment with Tebuconazole @ 1.5 gm/lt followed by furrow application o*f T. viride* @ 4kg enriched in 50kg FYM/ha as basal application, then broadcasting of *T. viride* @ 4kg enriched in 250kg FYM/ha at 40 DAS & two sprays of Tebuconazole @ 1gm/lt starting from initiation of foliar diseases and 2nd spray at 15 days interval

Table: Result

Technology option	No. of trials	Yield (No of leaves /ha)	% increase in Yield	No. of leaves /plant	Gross cost	Gross return	Net return	B:C Ratio
FP	7	8,07,625		31	150313	323050	172737	2.1
TO_1		9,08,600	12.50	36	153250	363440	210190	2.4
TO2		10,02,400	23.11	42	161657	400960	336175	2.5

OFT- 9 (Fishery Sc.)

1.	Title of On Farm Trial	**Assessment of different Parasiticidal agents in controlling external parasites in grow-out carp culture system**
2.	Problem diagnosed	Indiscriminate use of Organic fertiliser and environmental temperature variation leads to infestation of external crustacean parasites
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed FP-Mechanical removal of the Parasite or in few cases use of Formalin (37% HCHO) T O_1: Pond application of Synthetic Pyrethroid like Deltamethrin (Deltaguard) 2.8% @ 80ml/Acre-mt (4 times in weekly interval T $O_{2:}$: Application of Ivermectin (Paracure IV) @ 50 µg/Kg-1fish through feed
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CIFA (APR)-2015/16
5.	Production system and thematic area	Production and management
6.	Performance of the Technology with performance indicators	% of Infestation, % of Recovery, Fish health Index Water quality Parameter: Plankton, pH, DO_2, Alkalinity, Hardness. Cost of intervention

7.	Final recommendation for micro level situation	Both the Pyrethroids and Avermectin group are at par in controlling Argulous in Pond, but application of Ivermectin is better in controlling the parasite.
8.	Constraints identified and feedback for research	Total killing of zooplankton occurs in case of Pyrethroid application, so proper post application measures shall be taken for plankton production in fish culture pond.
9.	Process of farmers participation and their reaction	Group discussion, training, Slide show and Method demonstration

Thematic area: Production and management

Problem definition:.Indiscriminate use of Organic fertiliser and environmental temperature variation leads to infestation of external crustacean parasites

Technology assessed:

FP-Mechanical removal of the Parasite or in few cases use of Formalin (37% HCHO)

T O $_1$: Pond application of Deltamethrin (Deltaguard) 2.8% @ 80ml/Acre-mt (4 times in weekly interval

T $O_{2:}$: Application of Ivermectin (Paracure IV) @ 50 µg/Kg-1fish through feed

Table: Result

Results	Yield Parameter				Water parameters			Gross Return Rs/ha	Net Return Rs/ha	BC Ratio
	Yield q/ha	% of infestation	% of Recovery	% change in yield	pH	Plankton (ml)	DO			
FP	24.75±3.42	62.29±1.12	46.35±2.39		7.80	2.20	5.6	260000	110000	1.73
TO_1	29.68±2.65	74.67±2.65	82.33±2.75	19.91	7.80	2.30	5.7	315000	149000	1.89
TO_2	31.19±2.28	70.20±3.25	89.33±3.83	26.02	8.00	2.20	5.8	330000	174300	2.12

OFT- 10 (Fishery Sc.)

1.	Title of On Farm Trial	**Assessment of Probiotics as remedial measures for pisciculture in problematic waters**
2.	Problem diagnosed	Undesirable water characters such as high alkalinity, hardness and bloom formation leading to low pond productivity
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment FP-Application of Organic manure & Lime T O $_1$: Application of Water probiotic @ 1kg/Ac at fortnight interval. T $O_{2:}$: Application of Soil Probiotic @ 1lt/Ac at Fortnight interval TO_3 : Alternative application of both soil & water probiotic at fortnight interval.

4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-CIFA 2012; ICAR-Technology Repository(CIBA-2016); COF-OUAT, 2017
5.	Production system and thematic area	Production and Management
6.	Performance of the Technology with performance indicators	Soil and Water Quality, Yield
7.	Final recommendation for micro level situation	Alternate application of Soil & Water probiotic (TO_3)yields better result than TO_1&TO_2 with the maintenance of optimum water Quality. Hence both Soil and Water probiotic application at the recommended dose may be applied.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Production and management

Problem definition:.Undesirable water characters such as high alkalinity, hardness and bloom formation leading to low pond productivity

Technology assessed:

FP-Application of Organic manure & Lime

T O_1: Application of Water probiotic @ 1kg/Ac at fortnight interval.

T O_2: : **Application of Soil Probiotic @ 1lt/Ac at Fortnight interval**

T O_3 : Alternative application of both soil & water probiotic at fortnight interval.

Table: Result

Results	**Yield q/ha**	**Survival %**	**Water parameters**					**Net Return (Rs./ha)**	**B:C ratio**
			pH	**Plankton (ml)**	**Alkalinity (PPM)**	**Hardness (PPM)**	**DO**		
FP	23.08±3.12	60	7.38±3.12	1.70±2.85	192±1.12	212±3.65	4.8±3.12	72000	1.89
TO_1	29.65±2.67	78	7.83±2.32	2.20±1.47	143±1.85	167±1.13	5.6±3.09	112500	2.12
TO_2	32.58±1.89	75	8.1±1.67	2.20±2.08	129±2.14	152±2.35	5.5±2.16	119000	2.10
TO_3	35.62±2.35	74	8.2±2.3	2.30±2.82	120±1.58	140±1.89	5.7±1.85	127000	2.26

OFT-11 (Extension)

1.	Title of On-Farm Trial	Assessment of knowledge level of farmers on climate-resilient practices
2.	Problem diagnosed	Poor knowledge on climate resilient practices
3.	Details of technologies selected for assessment/refinement(Mention either Assessed or refined)	**FP:** Cultivation of Rice (**Pooja**) by conventional method without any resilient practices **TO_1:** Cultivation of Rice with resilience practices including varietal replacement in the low land area like **Swarna sub-1** with practiced only 3 resilience practices (**Seed+ Seed treatment +Line transplanting)** **TO_2:** Cultivation of crop with integrated resilient practices like **Swarna sub-1** with practiced 6 resilience **(Seed+ Seed treatment+ Line transplanting + INM+Weed management+ Water management)**
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-NICRA, CRIDA
5.	Production system and thematic area	Rice-pulses cropping system and Knowledge level of farmers
6.	Performance of the Technology with performance indicators	Knowledge level, rate of adoption of resilience practices, yield and B: C ratio
7.	Final recommendation for micro level situation	Knowledge level of farmers should be assessed before taking the resilient practices
8.	Constraints identified and feedback for research	Open up the farmers during interaction and got various information's on resilient practices. Resilient practices help them to protect their crops form various natural calamities and minimize their loses. More awareness is to be created among the farmers on resilient practices in their villages.
9.	Process of farmers participation and their reaction	More number of farmers were participated in the programme. Poor infrastructures, timely non availability of inputs and poor economic condition delay to adopt the resilient practices.

Thematic area:

Problem definition: Poor knowledge on climate resilient practices

Technology assessed:

FP: Cultivation of Rice (**Pooja**) by conventional method without any resilient practices

TO_1: Cultivation of Rice with resilience practices including varietal replacement in the low land area like **Swarna sub-1** with practiced only 3 resilience practices (**Seed+ Seed treatment +Line transplanting)**

TO_2: Cultivation of crop with integrated resilient practices like **Swarna sub-1** with practiced 6 resilience **(Seed+ Seed treatment+ Line transplanting + INM+ Weed management+ Water management)**

Table: 1

Technology option	No. of trials	Yield component		Rate of Adoption on resilient practices (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	% Knowledge increased						
FP: Cultivation of Rice (**Pooja**) by conventional method without any resilient practices	30	7	18.0	11.0	34	42803	61121	18318	1.4
TO_1: Cultivation of Rice with resilience practices including varietal replacement in the low land area like **Swarna sub-1** with practiced only 3 resilience practices (**Seed+ Seed treatment +Line transplanting)**		11	31.0	28.0	39	43021	69180	26159	1.6
TO_2: Cultivation of crop with integrated resilient practices like **Swarna sub-1** with practiced 6 resilience **(Seed+ Seed treatment+ Line transplanting +INM+ Weed management+ Water management)**		16	46.0	48.0	43.2	44030	74980	30950	1.7

Results: To2 performed better than To1. The knowledge increased significantly in To2 as compared to TO1 and FP. The highest knowledge gain in TO2 i.e. 46% where the rate of adoption is 48%. Similarly, in TO131% and 28% respectively. The lowest in FP.

OFT- 12 (Home Sc.)

1.	Title of On Farm Trial	**Assessment on management of competitor moulds in paddy straw mushroom**
2.	Problem diagnosed	Low yield of paddy straw mushroom due to ink cap & green mould occurrence .
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessment FP : Pre-soaking of straw for 10 to 12 hours with no management for moulds. T O 1 :Treatment of pre-soaked paddy straw for 10 to 12 hours in boiling water T O_2 :Pre soaking of paddy straw bundle with 0.02% of bleaching powder for 6 hours T O_3 :Presoaking of Paddy straw with 1% calcium carbonate for 6 hours
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ACRIP on mushroom, CTMRT, OUAT, Bhubaneswar,2014
5.	Production system and thematic area	Homestead & Mushroom production
6.	Performance of the Technology with performance indicators	Intensity of coprinus spp.(%) FP :36 T O_1 :28

		T O_2 : 21 T O_3 :8 Yield in kg/bed FP :0.61 T O_1 : 0.8 T O_2 : 0.94 T O_3 :1.1
7.	Final recommendation for micro level situation	Intensity of *coprinus sp.* is lowest in paddy straw mushroom bed by the use of presoaked paddy straw with 1% calcium carbonate for 6 hours
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	This technology is low cost, feasible and appreciated by the farmers.

Thematic area: Mushroom cultivation

Problem definition: Ink cap & green mould occurrence in paddy straw bed resulted in l yield loss.

Technology assessed: T O 1 :Treatment of pre-soaked paddy straw for 10 to 12 hours in boiling water

T O_2 :Pre soaking of paddy straw bundle with 0.02% of bleaching powder for 6 hours

T O_3 :Presoaking of Paddy straw with 1% calcium carbonate for 6 hours

Table:

Technology option	No. of trials	Yield component			Intensity of coprinus spp.(%)	Yield (kg/bed)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
T O 1	10	-	-	-	28	0.8	75	135	60	2.25
T O2	10	-	-	-	21	0.94	65	169	104	2.6
T O 3	10	-	-	-	8	1.1	65	198	133	3.06

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1	Groundnut	Weed management	Demonstration Of herbicides in weed management in Groundnut	2	2	1	2	-	-		4	3	7	3	10
2	Sunflower	Varietal replacement	Demonstration of sunflower hybrid LSFH-171	2	2	4	1		1		3	1	7	3	10
3	Rice	Weed management	Demonstration of herbicide in Rice	2	2	3	2		1	1	2	1	6	4	10
4	Ragi	Varietal replacement	Demonstration of High yielding ragi variety Arjun	2	2			4	1		4	1	8	2	10
5	Tomato (Rabi20-21)	Varietal evaluation	Demonstration of triple disease resistant tomato variety- Arka Rakshak	1ha	1ha	5		3		2				10	

6	Marigold (Rabi20-21)	INM	Demonstraion of Foliar Spray of Micronurient in Marigold	1ha	1ha	4		2		4				10	
7	Onion (Rabi20-21)	Varietal evaluation	Demonstration on onion variety- Arka Yojit	0.4ha	0.4 ha	2		1		7				10	
8	tuberose (Kharif 2021)	Varietal evaluation	Demonstration of tuberose cultivar Arka Prajawal	0.2ha	0.2ha					10				10	
9	**cowpea** (Kharif 2021)	Varietal evaluation	Demonstration on cowpea variety- Kashi Kanchan	1 ha	1ha	2				8				10	
10	Sunflower (Rabi2020-21)	INM	Demonstration on acid soil management in sunflower	1ha	1ha	4		2		4				10	
11	Tomato (Rabi2020-21)	INM	Demonstration on consortia biofertiliser application in tomato	1ha	1ha	2		1		7				10	
12	Chilli Rabi(2020-21)	INM	Demonstration on integrated nutrient management in chilli	1ha	1ha	4		2		4				10	
13	Tuberose (Kharif 2021)	INM	Demonstration on integrated nutrient management in tuberose	0.2ha	0.2ha	-		-		10				10	
14	brinjal (Kharif 2021)	INM	Demonstration on consortia biofertiliser application in brinjal	1ha	1ha	3		4		3				10	
15	Groundnut	Disease management	Demonstration of chemical management of Collar rot disease in Rabi, Groundnut	2	2					10	-	10	-	10	
16	Sunflower	Chemical management	Demonstration of management of tobacco caterpillar in	2	2	5	-	-	-	5	-	10	-	10	

			Sunflower												
17	Cashew nut	IPM	Demonstration of IPM against tea mosquito bug in cashewnut.	2	2	-	-	-	-	10	-	10	-	10	
18	Rice	Disease Management	Demonstration on management of Bacterial leaf blight in Rice	2	2	10	-	-	-	-	-	10	-	-	
19	Rice	Chemical management	Demonstration of chemical management practices for BPH in Rice	2	2	5	-	-	-	5	-	10	-	-	
20	Fish	Production and Management	Demonstration on Yearling stocking for yield enhancement in Pisciculture	8	8					5	-	5		5	
21	Fish	Production and Management	Demonstration on Amur carp as substitute to Mrigal in composite pisciculture	4	4					10		10		10	
22	Fish	Production and Management	Demonstration on Use of Insulated fish bag to preserve quality of Fish	10	10					10		10		10	
23	Fish	Production and Management	Demonstration on yearlings production	0.4	0.4					05		05		05	
24	Backyard poultry var. Kadaknath	Poultry management	Kadaknath bird body wt at 20 weeks 1170g, Avg. annual egg production 190. Tolerance to acute	200	200	17		17							

			stress condition. Brooding management for 21 days, vaccination with against RD on 7th Day, 28 day, IBD on 14th day												

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P_2O_5	K_2O					
1	Rabi	Irrigated mediumland	Sandy loam	192.7	19.3	128.7	Rice	22nd januar y	April 27th		
2	Rabi	Irrigated medium land	Sandy loam	193.7	18.8	118.3	Rice	Januar y 12th	April 5th		
3	Kharif	RF	Clay loam	199.7	19.8	128.5	Greeng ram	22nd august	January 6th		
4	Kharif	RF	Sandy loam	136.8	12.3	126.9	Vegeta ble	July 5th	10th october		
5	Rabi 2020-21	Irrigated	Sandy loam	147.5	14.19	132.3	Rice	15.11.2 020	30.1.2021		
6	Rabi 2020-21	Irrigated	Sandy loam	161.1.	15.04	148.9	Brinjal	30.11.2 020	19.1.2021		
7	Rabi 2020-21	Irrigated	Sandy loam	146.5	12.8	162.6	Vegeta ble	16.12. 2020	5.2.2021		
8	Kharif20 21	Irrigated	Sandy clay loam	217.4	15.4	163.9	Tuberose	6.6.20 21	3.10.2021		
9	Kharif 2021	Rainfed	Sandy loam	138.5	12.3	167.3	Tomato	17.7.2 021	11.9.2021		
10	(Rabi202 0-21)	Irrigated	Loamy	144.7	17.3	139.6	Rice				

11	(Rabi2020-21)	Irrigated	Sandy loam	152.5	15.3	174.2	Rice				
12	Rabi(2020-21)	Irrigated	Sandy loam	150.5	12.92	157.3	Rice				
13	Kharif (2021)	Rainfed	Sandy loam	225.3	16.41	152.5	Tuberose				
14	(Kharif 2021)	Rainfed	Sandy loam	148.7	14.31	156.4	vegetable				
15	Rabi 2021	Irrigated medium land	Sandy loam	150.3	15.53	167.8	Rice	02.12.20	04.04.21		
16	Rabi 2021	Irrigated medium land	Sandy loam	181.2	12.3	125.5	Rice	04.01.21	08.04.21		
17	Rabi 2021	Rainfed Upland	Clay loam	189.7	19.1	126.3	-	-	-		
18	Kharif -21	Rainfed medium land	Clay loam	152.6	14.32	142.3	=	27.07.21	12.12.21		
19	Kharif -21	Rainfed low land	Clay loam	80.1	8.92	158.9	-	16.08.21	27.12.21		
20	Year Round 2020-21	Rain-fed/Irrigated, Extensive	Sandy loam	161.1.	15.04	148.9					
21	Year Round 2021-22	Rain-fed/Irrigated, Extensive	Sandy loam	146.5	12.8	162.6					
22	Year Round 2020-21		Sandy loam	138.5	12.3	167.3					
23	Round	Rainfed/irri	Sandy	181.2	12.3	125.5					

	the year, 2021	gated	loam								
24	Rabi 2020-21	Backyard	-	-	-	-	-	-	-	-	-

In both the Tables, information of same crop should be provided. For example, if in Table 3.2A crops are mentioned as a,b,c,d etc., in the table for Details of farming situation, the same crop should be mentioned in the identical sequence.

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Groundnut	Weed management	Demonstration Of herbicides in weed management in Groundnut	10	2 ha	23.2	18.7	24.1	49,685.00	1,22,380.00	72,695.00	2.46	51654.00	98,642.00	76,988.00	1.90
Sunflower	Varietal replacement	Demonstration of sunflower hybrid LSFH-171	10	2 ha	19.3	12.9	49.6	42,587.00	1,13,580.50	70,993.50	2.66	39658.00	75,916.50	36,258.50	1.91
Sunflower	INM	Demonstration on acid soil management in sunflower	10	1ha	18.20	12.90	41.1	37050	107107	70057	2.89	31100	75916	44816	2.44

Groundnut	Disease management	Demonstration of chemical management of Collar rot disease in Rabi, Groundnut	10	2	23.56	19.52	20.18	48721.06	123751.5	75030.44	2.54	46803.65	122968	56164.37	2.20
Sunflower	Chemical management	Demonstration of management of tobacco caterpillar in Sunflower	10	2	16.90	13.22	28.03	34295.34	99546.5	65161.16	2.90	31885.12	77799.7	45914.58	2.44
Total															

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Pulses

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
	Total														

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rice	Weed management	Demonstration of herbicide in rice	10	2	45.6	39.2	16.3	81.2	63.6	47,389.00	88,464.00	41,075.00	1.87	51,654.00	76,048.00	24,394.00	1.47
Fingermillet	Varietal replacement	Demonstration of high yielding ragi variety Arjun	10	2	18.12	11.74	54.3	6.2	4.5	26,872.00	59,705.00	32,833.00	2.22	21,348.00	38,683.00	17,335.00	1.81

Tomato	Varietal evaluation	Demonstration of triple disease resistant tomato var tomato variety- Arka Rakshak	10	1	410.5	348.3	17.85 %	Wt of fruit(gm) 90.0 Wilting (0%), ToLCV (0%), EB 0%)	Wt of fruit(gm) 76.2 Wilting (30%), ToLCV (17%), EB 27%)	137510	453755	316245	3.2	121367	315280	193913	2.5
Onion	Varietal evaluation	Demonstration on onion variety- Arka yojit	10	0.4	192.0	171.0	12.16 %	purple blotch(7 %) Wt of bulb(62 gm)	purple blotch(28%) Wt of bulb(50gm)	130320	288000	118600	2.21	137900	256500	157680	1.86
Marigold	INM	Demonstraion of Foliar Spray of Micronurient in Marigold	10	1	118.4	100.9	17.34 %	Flower Diameter 6.08cm	Flower Diameter 4.15cm	184523	572030	387507	3.1	177589	479520	301931	2.7
Tuberose	Varietal evaluation	Demonstration of tuberose cultivar Arka Prajawal	10	1	5.02 t/ha	4.31 t/ha	16.87 %	No. of floret Per spike 30.8	No. of floret Per spike 20.2	152121	502000	349879	3.3	143666	387900	244234	2.7
Cowpea	Varietal evaluation	Demonstration on cowpea variety- Kashi Kanchan	10	1	119.4	102.1	16.94	plant height 66.24cm	plant height 83.44cm	96350	239920	143570	2.49	92230	204020	111790	2.20

Tomato soil	INM	Demonstration on consortia biofertiliser application in tomato	10	1ha	408.4	329.2	24.05	43.9	37.1	1,25,100	3,67,560	242460	2.94	1,20,900	296280	175380	2.45
Chilli soil	INM	Demonstration on integrated nutrient management in chilli	10	1ha	163.7	128.6	27.3	210.5	193.7	209800	572950	363150	2.73	204500	450100	245600	2.20
Tuberose soil	INM	Demonstration on integrated nutrient management in tuberose	10	0.2 ha	5.81	4.66	24.8 %	36.75	30.47	206700	581000	374300	2.81	184550	466000	281450	2.52
Brinjal soil	INM	Demonstration on consortia biofertiliser application in brinjal	10	1ha	244.8	192.3	27.3	12.2	9.5	197400	489600	292200	2.48	189850	384600	194750	2.02
Cashew nut	IPM	Demonstration of IPM against tea mosquito bug in cashewnut	10	2	14	8	75	16 nos of affected plants /ha	44 nos of affected plants /ha	38620	112000	73380	2.90	26446	64000	37554	2.42
Rice	Disease Management	Demonstration on management of Bacterial leaf blight in Rice	10	2	41.3	35.2	17.33	1.1	8.9	37825	64015	26190	1.69	39624	54560	14936	1.37

Rice	Chemical management	Demonstration of chemical management practices for BPH in Rice	10	2	42.7	36.1	18.2	0	11	64015	96030	32015	1.99	51460	75420	28860	1.87
		Total															

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	

Poultry	Poultry Management	Kadaknath bird body wt at 20 weeks 1170g, Avg. annual egg production 190. Tolerance to acute stress condition. Brooding management for 21 days, vaccination with against RD on 7th Day, 28 day, IBD on 14th day	17	17	Body wt. gain /year - 0.87kg per bird No of egg/year- 36 nos.	Body wt. gain /year – 1.15 kg/bird No of egg/year- 54 nos.	Mortality % -78%			240	1740	1500	7.25	150	735	585	4.9
Rabbitry																		
Pigerry																		
Sheep and goat																		
Duckery																		
Others (pl.specify)																		
Total																		

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Ornamental fishes																	
Common carps	Production and Management	Demonstration on Yearling stocking for yield enhancement in Pisciculture	5	5	42.85±2.95	33.65±3.22	27.34				445000	242500	2.20		325000	142500	1.78
Common carps	Production and Management	Demonstration on Amur carp as substitute to Mrigal in composite pisciculture	10	10	34.33±2.50	25.65±3.48	33.84				308000	174000	2.30		185700	88000	1.92

Common carps		Demonstration on Use of Insulated fish bag to preserve quality of Fish	10	10	Taste-9.53±1.35 Odour-8.46±2.1 Flavor-8.2±2.32 Color-7.31±1.5 Texture-8.27±1.42	Taste-8.5±1.67 Odour-7.0±2.35 Flavor-7.0±1.2 Color-5.6±0.85 Texture-6.9±1.68				9500	12700	32000	1.34	9300	11300	20000	1.21
Common carps		Demonstration on yearlings production	5	5	34.60±2.32	24.52±1.85	41.10					340000	2.36			164800	1.82
		Total															

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Other enterprises

Category	Name of the technology	No. of Farmer	No. of units	Major parameters	% change in major	Other parameter	*Economics of demonstration (Rs.) or Rs./unit	*Economics of check (Rs.) or Rs./unit

	demonstrated			Demonstration	Check	parameter	Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Enterprise development															
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																
Total																

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women					
Pregnant women					
Adolescent Girl					
Other women					
Children					
Neonatal					
Infants					

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit)			
					Demonstration	Check									

*** Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.**
**** BCR= GROSS RETURN/GROSS COST**

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
Cereals				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (Pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										

Others (Pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato	Arka Rakshak	10	1	410.5	348.3	17.85 %	137510	453755	316245	3.2
Brinjal										
Okra										
Onion	Arka Yojith	10	1	192.0	171.0	12.16%	130320	288000	118600	2.21
Potato										
Field bean										
Others (Pl.specify)										
Total										
Commercial crops										
Cotton										
Coconut										
Others (Pl.specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl.specify)										
Total										

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Groundnut	Application of Oxyflourfen 23.5 EC@ 0.2 kg/ha at 2DAS followed by early post emergence spray of imazethapyr 100g/ha at 15 DAS was proved practically more convenient and economically best feasible weed management prat*ctice* for groundnut considering the present condition of scarcity and high cost of labours, quality of weed control, yield and B:C ratio of cultivation of groundnut
2	Sunflower	The FLD made positive and significant impact on yield enhancement of sunflower by 31.9 per cent. The farmers were motivated by results of improved hybrid and agro technologies applied in the FLDS and it is expected that they would adopt these technologies in the coming years
3	Rice	The post emergence application of Bispyribac + almix @ 20 + 4 g ha-1 is a good weed management practice for effective control of narrow, broad leaved and sedges weeds very effectively resulted into higher value of weed control efficiency maximizing productivity of rice.. It is suitable in transplanted rice for controlling predominant weeds and to reduce the labour cost involved in manual hand weeding which is tedious, expensive and time-consuming, hence it cannot be practicable on a large scale.
4	Ragi	Ragi variety Arjun with scientific methods and technological practices can enhance the productivity upto 54.3 per cent. This created awareness and motivated the farmers to adopt improved variety Arjun with improved production practices.
5	Tomato	Triple disease resistant tomato F_1 hybrid Arka Rakshak Successfully withstood against to LCV, (tomato leaf curl virus) BW (bacterial wilt) & EB (early blight.)
6	Marigold	By spray of micronutrient plant growth and development is more, and this leads to increase in quantity and quality of flower.
7	Onion	Arka yojith onion is highly pungent, Bulbs are white, flat globe. Suitable for rabi and kharif season . Resistant to purple blotch
8	Tuberose	Cultivar Arka Prajwal recorded maximum number of floret per spike and maximum flower yield while minimum yield was recorded in cultivar Calcutta single.
9	Cowpea	Farmers are satisfied with the yield potential as well as reduction in gross cost by cultivation of bushy type cowpea var. Kashifgkanchan
10	Sunflower	Application of lime along with STBF and bio-inoculant (azotobacter and azospirillum)@10 kg/ha significantly increases the seed yield of sun flower by 41%.
11	Tomato	Microbial consortia promotes vegetative growth by active cell division, cell elongation and increases the yield of tomato crops by 24.5%.
12	Chilli	Use of STBF based NPK + biofertilizer (Azotobactor, Azosprillum&PSB @ each 4kg/ha)+ vermicompost @5t/ha increases the chilli yield by 27.3%

13	Tuberose	Application of 75% STBF +FYM 1kg/m^2 + Vermicompost (300g/m^2)+2g/plant Azospirillum + 2g/plant PSB increases yield and quality of flower.
14	Brinjal	Microbial consortia promotes vegetative growth by active cell division, cell elongation and increases the yield of brinjal by 27%.
15	Chilli	Bioerfertiliser and Vermicompost in the INM package has synergistic and significance influence on vegetative growth of plant
16	Cauliflower	Sulphur is highly essential for cruciferous crops as it imparts characteristics flavour to the particular crop.Boron is also essential for high quality curd,
17	Groundnut	Seed treatment by Tebuconazole , furrow & basal application of t. viride at 40DAS & 2 spray of Tebuconazole in 15 days interval has given better performance
18	Sunflower	Use of Dichlorovos controls tobacco caterpillar incidence in Sunflower to maximum extent.
19	Cashew nut	Lamda cyhalothrin & Profenophos are successfully control Tea Mosquito Bug in cashewnut
20	Rice	Foliar spraying of COC & STREPTOMYCINE as best management practice for controlling BLB in Rice
21	Rice	Flonicamid & pymetrozin are new generation pesticide which successfully control BPH in rice
22	Fish	Due to high growth rate and survivility within the same time period, an avg. increase yield of 42.85q/ha has been observed with a net profit of Rs. 235000 with the same management practice. So farmers accepted the technology
23	Fish	Observed an Increase in yield by 33.84% (34.33 q/ha) than farmers practice (25.65 q/ha).In some pond where vegetation available, auto-breed activity noticed, So in that situation, harvesting within 6-8 months of practice has been advised. Fast growing, Body is slender and belly is smaller, bottom feeder and can suitably substitute mrigal
24	Fish	Higher yield of 34.60q/ha obtained with a better survival rate of 68% due to good management practice. Yearling cost more (Rs. 5-7/Seed) realized, and farmers are more happy to do Yearling production in their farm pond

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
Agronomy					
1.	Field days	27.04.21,15.04.21,27.09.21,30.12.2021	4	100	4 nos of field days organised
2.	Farmers Training	22.01.21,16.07.21,14.09.21	3	75	3nos of training programme organized under FLD programme
3.	Media coverage				
4.	Training for extension functionaries				
Horticulture					
1.	Field days	9.9.2021 , 30.9.2021 4.12.2021, 20.12.2021	4	20*4=80	6 no.of field day conducted under different FLDs of horticulture discipline
2.	Farmers Training	8.9.2021, 22.11.2021, 26.11.2021, 16.12.2021 4.10.2021 & 5.10.2021 3.12.2021 & 4.12.2021	4 2	25*4=100 15*2=30	04 nos of F/FW trg under FLD programme 02 nos of RY trg under FLD programme
3.	Media coverage		2	Mass	E-Tv Annadata Prog
4.	Training for extension functionaries	28.12.2021 ,29.12.2021	2	2*10=20	2 nos IS training
Soil Science					
1.	Field days	9.9.2021 , 30.9.2021 4.12.2021, 20.12.2021	4	15*4=60	4 no.of field day conducted under different FLDs of Soil Science discipline
2.	Farmers Training	8.9.2021, 22.11.2021, 26.11.2021, 16.12.2021 4.10.2021 & 5.10.2021 3.12.2021 & 4.12.2021	7	175	07 no. of F/FW trainings under FLD programme related to FLD programme of Soil Science

3.	Media coverage		1	Mass	E-TV AnnadataProgramme
4.	Training for extension functionaries		2	2*10=20	2 no.In- service trainings
Plant Protection					
1.	Field days	18.2.21 15.3.21 23.4.21 12.12.21 20.12.21	5	20*5=100	
2.	Farmers Training	15.1.21 04.03.21 10.03.21 04.09.21 26.10.21	5	25*5-125	
3.	Media coverage		2	Mass	Tv Talk in News 18 E-Tv Annadata Prog
4.	Training for extension functionaries				
Fishery					
1.	Field days	24.12.2021, 26.02.2021, 17.03.2021, 14.08.2021	04	50	04 nos Field days Organised
2.	Farmers Training	21.11.2021,14.12.2021, 24.07.2021, 23.06.2021, 29.06.2021	05	125	05 nos of F/FW trg under FLD programme
3.	Media coverage	07.08.2021, 10.12.2021, 03.09.2021	03	Mass	E-Tv Annadata Prog
4.	Training for extension functionaries				
Home Sc					
1	Field days	26.02.2021	01	20	01 nos Field days Organised
2	Farmers Training	,14.12.2021, 24.07.2021,	02	50	02 nos of F/FW trg under FLD programme
3	Media coverage	07.08.2021, 10.12.2021, 03.09.2021	03	Mass	E-Tv Annadata Prog
4	Training for extension				

	functionaries				
Extension					
1	Field days	-	-	-	
2	Farmers Training	3.9.2021, 15.9.2021 29.9.2021, 29.11.2021 30.11.2021,4.12.2021	6	150	
3	Media coverage	8.9.2011, 28.9.2021 26.10.2021,29.102021 17.11.2021, 25.12.2021 3.01.2022, 15.01.2022	11	Mass	
4	Training for extension functionaries	20.12.2021 and 21.12.2021	2	20	

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2021 and Rabi 2021-2022:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (q/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	3.6	-	-	10	Improved seeds (Virat), Seed treatment with(*Trichoderma Viridae*) @ 5gm/kg seed , Foliar spraying of N-P-K(19-19-19) @25kg/ha & micro	25	10	5.4	4.0	4.8	-	-	

							nutrient 25 lt/ha for better flowering, Spraying of Sulphur 90% @40kg/ha for better growth of root, Spraying of Neem Oil @2.5ml/lt to prevent the insect & pest, Spraying of profenophos+Cypermethrin @ 1ml/lt for control of jassids & other insects, Spraying of indoxacarb @ 1 ml/ lt of water for controlling pod borer problems & use of pro supper gunny bag for storage of seeds								

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	Improved seeds (Virat), Seed treatment with(*Trichoderma Viridae*) @ 5gm/kg seed , Foliar spraying of N-P-K(19-19-19) @25kg/Ha & micro nutrient 25 lt/ha for better flowering, Spraying of Sulphur 90% @40kg/ha for better growth of root, Spraying of	12900	21600	8700	1.67	13600	28800	15200	2.11

	Neem Oil @2.5ml/lt to prevent the insect & pest, Spraying of profenophos+ Cypermethrin@ 1ml/lt for control of jassids & other insects, Spraying of indoxacarb @ 1 ml/ lt of water for controlling pod borer problems & use of pro supper gunny bag for storage of seeds								

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	Greengram Virat	12200	408	60	1250	750	farmers utilized the income for their future farm activities	34

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	Improved seeds (Virat), Seed treatment with(*Trichoderma Viridae*) @ 5gm/kg seed , Foliar spraying of N-P-K(19-19-19) @25kg/ha & micro nutrient 25 lt/ha for better flowering, Spraying of Su8lphor 90% @40kg/ha for better growth of root, Spraying of Neem Oil @2.5ml/lt to prevent the insect & pest, Spraying of profenophos+ Cypermethrin@ 1ml/lt for control of jassids & other insects, Spraying of indoxacarb @ 1 ml/ lt of water for controlling pod borer problems & use of pro supper gunny bag for storage of seeds	Suitable to the existing farming system	Virat was preferred by the farmers & effective control of weeds,diseases & pest	70%	Weed infestation during initial stage	The HYV & pest control technology were accepted by all the beneficiaries in the group	It is suggested to cultivate this variety in Rabi to obtain its potential yield & timely availability of seed

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
(Virat or IPM 205-7) Resistant to powdery mildew & YMV disease	Seed colour : Green, Seed shape: Round to Cylindrical, 100 seed wt. : 3.81 g. & Plant Height : 50-58 CM	33.33 % increase over local check.	farmers are interested to cultivate the variety in future due to higher yield than local & resistant to some disease than local

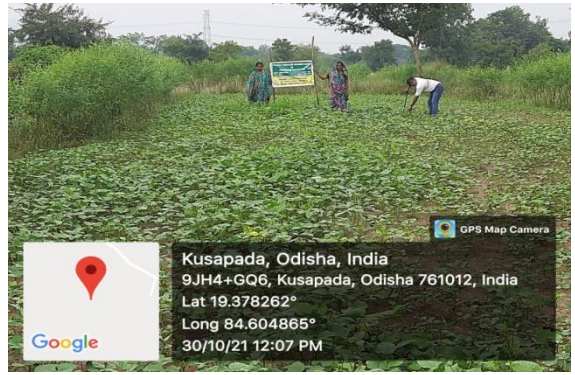
F. Extension activities under FLD conducted till dates:

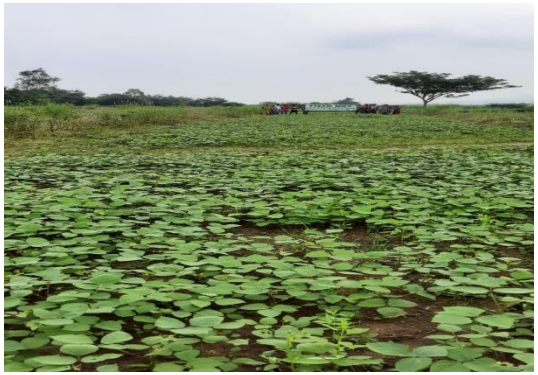
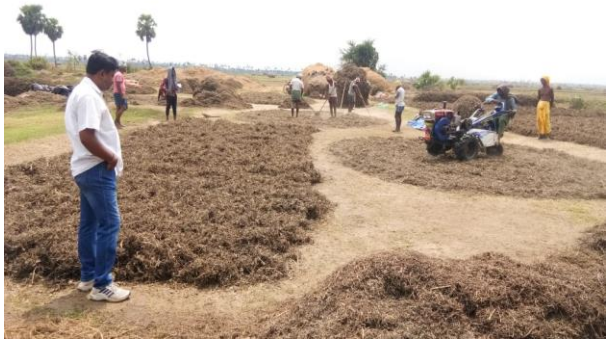
Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended

1.			
2.			
3			

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

GREENGRAM

		
SEED DISTRIBUTION	**GROUP DISCUSSION**	**FIELD VISIT**

 **FIELD DAY**	 **HARVESTING**	

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.)
Greengram Kharif 2021	i) Critical input		80800.00	
	ii) TA/DA/POL etc. for monitoring		3000.00	
	iii) Extension Activities (Field Day)		2500.00	
	iv)Flex + Misc		2500.00	
	Total (88,800.00)	**88,800.00**	**88,800.00**	**Nill**

3.3 Achievements on Training (Including the sponsored and FLD training programmes):

A) Farmers and farm women (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	1	16	9	25							16	9	25
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production	1	10	10	20	3	2	5				13	12	25
Nursery management	1	8	9	17	8	0	8				16	9	25
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total	3	34	28	62	11	2	13	0	0	0	45	30	75
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off0season vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables	1	21	4	25							21	4	25
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit	1	13	5	18	5	2	7				18	7	25
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology	1	14	4	18	4	3	7				18	7	25
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management	2	23	3	26	12	12	24				25	15	50
Integrated water management	3	36	18	54	14	7	21				50	25	75
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency	1	22	3	25							22	3	25
Balance Use of fertilizer	1	13	5	18	5	2	7				18	7	25
Soil & water testing													
others													
Total	8	100	60	160	31	9	40	0	0	0	131	69	200
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition													
Women empowerment													
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others													
Total													
VI. Agril. Engineering													
Farm machinery & its maintenance													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management	1	17	4	21	2	2	4				19	6	25
Integrated Disease Management	5	74	19	93	19	13	32				93	32	125
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total	6	91	23	114	21	15	36	0	0	0	112	38	150
VIII. Fisheries													
Integrated fish farming	6	95	18	113	27	10	37				122	28	150
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Pearl culture													
Fish processing and value addition													
Others													
Total	6	95	18	113	27	10	37				122	28	150
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	26	368	142	510	99	41	140	0	0	0	467	183	650

B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production	1	11	2	13	2	0	2				13	2	15

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Integrated farming	1	7	4	11	3	1	4				10	5	15
Seed production													
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping	1	11	0	11	4	0	4				15	0	15
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Safe use of pesticides , new generation on pesticides	3	28	8	36	6	3	9				34	11	45
Others	2	19	11	30	0	0	0	0	0	0	19	11	30
Total	8	76	25	101	15	4	19	0	0	0	91	29	120

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field	2	12	8	20							12	8	20

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
crops													
Integrated Pest Management	2	10	10	20							10	10	20
Integrated Nutrient management	1	5	5	10							5	5	10
Rejuvenation of old orchards													
Protected cultivation technology	2	10	10	20							10	10	20
Production and use of organic inputs	1	5	5	10							5	5	10
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other (Agril. Extension)	4	25	15	40	3	3	6	0	0	0	25	15	40
Total	12	67	53	120	3	3	6	0	0	0	67	53	120

D) Farmers and farm women (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	1	6	4	10	6	9	15				12	13	25
Resource Conservation Technologies													
Cropping Systems	1	15		15	3	7	10				18	7	25
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production	7	45	6	51	37	12	50	24	28	52	128	47	175
Nursery management	1	8	8	16	1	1	2	8			17	8	25
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total	10	74	18	92	47	29	77	32	28	52	175	75	250
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off0season vegetables	1	7	5	12	13	0	13				20	5	25
Nursery raising	1	8	3	11	12	2	14				20	5	25

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Exotic vegetables	2	14	0	14	32	4	36				46	4	50
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit	1	5	4	9	12	4	16				17	8	25
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants	2	22	13	35	3	12	15				25	25	50
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology	1	22	3	25							22	3	25
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology	1	6	4	10	6	9	15				12	13	25
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)	9	84	32	116	78	31	109	0	0	0	162	63	225

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
III. Soil Health and Fertility Management													
Soil fertility management	2	25	13	38	8	4	12				33	17	50
Integrated water management													
Integrated Nutrient Management													
Production and use of organic inputs	2	21	14	35	12	3	15				33	17	50
Management of Problematic soils													
Micro nutrient deficiency in crops	1	11	5	16	6	3	9				17	8	25
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
others													
Total	5	57	32	89	26	10	36	0	0	0	83	42	125
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	2					30	30		20	20		50	50
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition	2		50	50								50	50
Women empowerment													
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others	1					19	19		6	6		25	25
Total	5		50	50		49	49		26	26		125	125
VI. Agril. Engineering													
Farm machinery & its maintenance													
Installation and maintenance of													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management	2	23	4	37	8	5	13				41	9	50
Integrated Disease Management													
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides	4	57	14	71	24	5	29				81	19	100
Others													
Total	6	80	18	108	32	10	42	0	0	0	122	28	150
VIII. Fisheries													
Integrated fish farming	1	18	2	20	3	2	5				21	4	25
Carp breeding and hatchery management	1	9	4	13	6	6	12				15	10	25
Carp fry and fingerling rearing	2	24	4	28	13	9	22				37	13	50
Composite fish culture													
Hatchery management and culture of freshwater prawn	1	23		23		2	2				23	2	25
Breeding and culture of ornamental fishes	1	14	4	18	4	3	7				18	7	25
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition	1	14	1	15	8	2	10				22	3	25
Others	1	15	6	21	3	1	4				18	7	25
Total	8	117	21	138	37	25	62	0	0	0	154	46	200
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development	1	20	1	21	2	2	4	0	0	0	22	3	25
Group dynamics	1	13	10	23	2	0	2	0	0	0	15	10	25
Formation and Management of SHGs													
Mobilization of social capital	1	17	8	25	0	0	0	0	0	0	17	8	25
Entrepreneurial development of farmers/youths	1	24	0	24	1	0	0	0	0	0	25	0	25
WTO and IPR issues													
Others	1	20	5	25	0	0	0	0	0	0	20	5	25
Total	5	94	24	118	5	2	6	0	0	0	99	26	125
XI. Agro forestry													
Production technologies	1	12	7	19	4	2	6	0	0	0	16	9	25
Nursery management													
Integrated Farming Systems													
Others													
Total	1	12	7	19	4	2	6	0	0	0	16	9	25
XII. Others (Pl. Specify)													
GRAND TOTAL	49	518	202	730	229	158	387	32	54	78	811	414	1225

E)RURAL YOUTH (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops	1	5	2	7	8	0	8				13	2	15
Commercial fruit production													
Integrated farming													
Seed production	1	7	4	11				3	1	4	10	5	15
Production of organic inputs	2	33	13	46	10	4	14				43	17	60
Planting material production	1	12	2	14	1	0	1				13	2	15
Vermiculture													
Mushroom Production													
Beekeeping													
Sericulture Commercial flower production	1	5	0	5	7	3	10				12	3	15
Repair and maintenance of farm machinery and implements													
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries	1	8	3	11	3	1	4				11	4	15
Composite fish culture	1	8	4	12	2	1	3				10	5	15
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology	1	10	2	12	2	1	3				12	3	15
Fry and fingerling rearing	1	7	5	12	2	1	3				9	6	15
Other	1	6		6				5	4	9	11	4	15
Others (Agril. extension)	2	19	11	30	0	0	0	0	0	0	19	11	30
Total	13	120	46	166	35	11	46	8	5	13	163	62	225

F) Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other													
Total													

G) Consolidated table (ON and OFF Campus)

i. Farmers& Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	5	54	59	113	5	1	6	4	2	6	63	62	125
Resource Conservation Technologies													
Cropping Systems	1	15		15	3	7	10				18	7	25
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production	8	55	16	71	40	15	55	24	28	52	119	81	200
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total	14	124	75	199	48	23	71	28	30	58	200	150	350
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off0season vegetables	1	7	5	12	13	0	13				20	5	25
Nursery raising	1	8	3	11	12	2	14				20	5	25

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Exotic vegetables	2	14	0	14	32	4	36				46	4	50
Export potential vegetables	1	21	4	25							21	4	25
Grading and standardization													
Protective cultivation													
Others													
Total (a)	5	50	12	62	57	6	63	0	0	0	107	18	125
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit	2	18	9	27	17	6	23				35	15	50
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Total (b)	2	18	9	27	17	6	23				35	15	50
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants	2	22	13	35	3	12	15				25	25	50
Propagation techniques of Ornamental Plants													
Others													
Total (c)	2	22	13	35	3	12	15				25	25	50
d) Plantation crops													
Production and Management technology	1	22	3	25							22	3	25
Processing and value addition													
Others													
Total (d)	1	22	3	25							22	3	25
e) Tuber crops													
Production and Management technology	1	6	4	10	6	9	15				12	13	25
Processing and value addition													
Others													
Total (e)	1	6	4	10	6	9	15				12	13	25
f) Spices													
Production and Management technology	1	14	4	18	4	3	7				18	7	25
Processing and value addition													
Others													
Total (f)	1	14	4	18	4	3	7				18	7	25
g) Medicinal and Aromatic Plants													
Nursery management													
Production and													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)	12	132	45	177	87	36	123	0	0	0	219	81	300
III. Soil Health and Fertility Management													
Soil fertility management	4	48	46	64	20	16	36				68	32	100
Integrated water management													
Integrated Nutrient Management	3	36	18	54	14	7	25				50	25	75
Production and use of organic inputs	2	21	14	35	12	3	15				33	17	50
Management of Problematic soils													
Micro nutrient deficiency in crops	1	11	5	16	6	3	9				17	8	25
Nutrient Use Efficiency	1	22	3	25							22	3	25
Balance Use of fertilizer	1	13	5	18	5	2	7				18	7	25
Soil & water testing													
others													
Total	12	151	91	212	57	31	92	0	0	0	208	92	300
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	2					30	30		20	20		50	50
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition	2		50	50								50	50
Women empowerment													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others	1					19	19		6	6		25	25
Total	5		50	50		49	49		26	26		125	125
VI. Agril. Engineering													
Farm machinery & its maintenance													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management	3	50	8	58	10	7	17				60	15	75
Integrated Disease Management	9	131	33	164	43	18	61				174	51	225
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total	12	181	41	222	53	25	78	0	0	0	234	66	300
VIII. Fisheries													
Integrated fish farming	6	95	18	113	27	10	37				122	28	150
Carp breeding and hatchery management	1	9	4	13	6	6	12				15	10	25
Carp fry and fingerling rearing	2	24	4	28	13	9	22				37	13	50
Composite fish culture	1	18	2	20	3	2	5				21	4	25
Hatchery management and culture of freshwater prawn	1	23	0	23	0	2	2				23	2	25
Breeding and culture of ornamental fishes	1	14	4	18	4	3	7				18	7	25
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition	1	14	1	15	8	2	10				22	3	25
Others	1	15	6	21	3	1	4				18	7	25
Total	14	212	39	251	64	35	99	0	0	0	276	74	350

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development	1	20	1	21	2	2	4	0	0	0	22	3	25
Group dynamics	1	13	10	23	2	0	2	0	0	0	15	10	25
Formation and Management of SHGs													
Mobilization of social capital	1	17	8	25	0	0	0	0	0	0	17	8	25
Entrepreneurial development of farmers/youths	1	24	0	24	1	0	0	0	0	0	25	0	25
WTO and IPR issues													
Others	1	20	5	25	0	0	0	0	0	0	20	5	25
Total	5	94	24	118	5	2	6	0	0	0	99	26	125
XI. Agro forestry													
Production technologies	1	12	7	19	4	2	6	0	0	0	16	9	25
Nursery management													
Integrated Farming Systems													
Others													
Total	1	12	7	19	4	2	6	0	0	0	16	9	25
XII. Others (Pl. Specify)													
GRAND TOTAL	75	906	372	1248	318	203	524	28	56	84	1252	623	1875

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable	1	5	2	7	8	0	8				13	2	15

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
crops													
Commercial fruit production	1	11	2	13	2	0	2				13	2	15
Integrated farming													
Seed production													
Production of organic inputs	4	33	13	46	10	4	14				43	17	60
Planting material production	1	12	2	14	1	0	1				13	2	15
Vermiculture													
Mushroom Production													
Beekeeping	1	11	0	11	4	0	4				15	0	15
Sericulture	1	5	0	5	7	3	10				12	3	15
Repair and maintenance of farm machinery and implements													
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries	1	8	3	11	3	1	4				11	4	15
Composite fish culture	1	8	4	12	2	1	3				10	5	15
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology	1	10	2	12	2	1	3				12	3	15
Fry and fingerling rearing	1	7	5	12	2	1	3				9	6	15
Others (PP)	3	28	8	36	6	3	9				34	11	45
Others	2	19	11	30	0	0	0	0	0	0	19	11	30
Total	18	157	52	209	47	14	61	0	0	0	204	66	270

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	2	12	8	20							12	8	20
Integrated Pest Management	2	10	10	20							10	10	20
Integrated Nutrient management	1	5	5	10							5	5	10
Rejuvenation of old orchards													
Protected cultivation technology	2	10	10	20							10	10	20
Production and use of organic inputs	1	5	5	10							5	5	10
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other	4	25	15	40	3	3	6	0	0	0	25	15	40
Total	12	67	53	120	3	3	6	0	0	0	67	53	120

Please furnish the details of training programmes as Annexure in the proforma given below

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agronomy	F/FW	Improved package of practice of ragi	1 day	Off	21	4	25	20	4	24
Agronomy	F/FW	Nursery management in rice	2 days	Off	33	17	50	17	-	17
Agronomy	F/FW	SRI in rice	1 day	Off	18	7	25	1		1
Agronomy	F/FW	Integrated Weed management in rice	2 days	1Off/1 On	39	11	50	20	2	22
Agronomy	F/FW	Weed management in maize	1 day	Off	6	19	25	-	1	1
Agronomy	F/FW	Improved package of practices of pulse crop	2 days	1Off / 1 On	33	17	50	8	6	14
Agronomy	F/FW	Maize pulse intercropping	1 day	Off	12	13	25	21	4	25
Agronomy	F/FW	Integrated weed management in groundnut	1 day	Off	15	10	25	-	3	3
Agronomy	F/FW	Improved package and practices of Sesame	1 day	On	16	9	25	2	3	5
Agronomy	RY	SRI in fingermillet	2 days	1Off / 1 On	9	6	15	1	3	4
Agronomy	RY	Micro irrigation in field crops	2 days	Off	11	4	15	5	4	9
Agronomy	RY	Quality Seed production in pulse crop	2 days	On	10	5	15	3	1	4
Agronomy	IS	Crop Diversification	1day	On	7	3	10	----	-	-
Agronomy	IS	Crop Biofortification for food security	1day	On	6	4	10	--	-	-
Horticulture	F/Fw	Agro techniques of pointed gourd, bottle gourd	1	Off campus	25	0	25	25	0	25
Horticulture	F/Fw	Scientific cultivation of Colocasia,Yam	1	Off campus	12	13	25	6	9	15
Horticulture	F/Fw	Scientific cultivation of Cauliflower, Cabbage and Brocolli	1	Off campus	20	5	25	13	0	13
Horticulture	F/Fw	Production technology of cowpea and bean	1	Off campus	21	4	25	7	4	11
Horticulture	F/Fw	Scientific cultivation of Onion , Garlic and Chilli	1	On campus	18	7	25	4	3	7
Horticulture	F/Fw	Production technology of Marigold and tuberose	1	Off campus	19	6	25	1	2	3
Horticulture	F/Fw	Agrotechniques of Rose and Gerbera	1	Off campus	19	6	25	2	10	12
Horticulture	F/Fw	Nursery management of high value vegetables	1	Off campus	20	5	25	12	2	14

Horticulture	F/fw	Scientific cultivation of papaya ,Banana and Dragon fruit	1	Off campus	17	8	25	12	4	16
Horticulture	F/Fw	Scientific cultivation of Bettlevine	1	Off campus	22	3	25	0	0	0
Horticulture	F/Fw	Scientific cultivation of Capsicum, Tomato	1	On campus	21	4	25	0	0	0
Horticulture	F/Fw	Cultivation of mango,Guava	1	On campus	18	7	25	5	2	7
Horticulture	RY	Scientific cultivation of Papaya, ,Banana, Mango	2	On campus	14	1	15	5	3	8
Horticulture	RY	Cultivation of rose and gladiolus	2	Off campus	12	3	15	6	3	9
Horticulture	RY	Raising good quality planting material	2	Off campus	13	2	15	1	0	1
Horticulture	RY	Cultivation of high value vegetables under protected condition	2	Off campus	12	3	15	8	0	8
Horticulture	IS	High tech cultivation of flower crops	1	On campus	5	5	10	0	0	0
Horticulture	IS	Urban gardening of horticultural crops	1	On campus	5	5	10	0	0	0
Soil Sc.	F/FW	Soil fertility management	1	ON campus	29	21	50	18	6	24
Soil Sc.	F/FW	Nutrient management in fruit crops	1	ON campus						
Soil Sc.	F/FW	Importance of soil testing & technique of soil sample collection	1	ON campus	31	19	50	13	5	18
Soil Sc.	F/FW	INM in flower cultivation	1	ON campus	18	7	25	5	2	7
Soil Sc.	F/FW	INM in solanaceous vegetables	1	ON campus	17	8	25	6	3	9
Soil Sc.	F/FW	Use & role of micronutrient in cole crops	1	Off campus	17	8	25	6	3	9
Soil Sc.	F/FW	Importance of soil testing & technique of soil sample collection	1	Off campus	18	7	25	5	2	7
Soil Sc.	F/FW	Production technology of vermicompost and uses	1	Off campus	18	7	25	6	0	6
Soil Sc.	F/FW	Soil fertility management	1	Off campus	15	10	25	3	2	5
Soil Sc.	F/FW	Use & role of Biofertilisers in vegetables	1	ON campus	18	7	25	5	2	7
Soil Sc.	F/FW	INM in Pulses	1	ON campus	15	10	25	3	2	5
Soil Sc.	F/FW	Production technology of vermicompost and uses	1	Off campus	17	8	25	6	3	9
Soil Sc.	RY	Vermiculture and	4day	Off	21	9	30	6	3	9

		vermicomposting		campus						
Soil Sc.	RY	Production and use of organic inputs	4 day	Off campus	22	8	30	4	1	5
Soil Sc.	IS	Organic farming for sustainable agriculture	1	On campus	6	4	10	2	0	2
Soil Sc.	IS	INM for sustainable agriculture	1	On campus	6	4	10	2	0	2
Plant Protection	F/FW	Nursery disease management in Kharif rice.	1	Off campus	25	-	25	5	3	8
Plant Protection	F/FW	Blast and sheath blight disease management rice.	1	On campus	8	17	25	2	1	3
Plant Protection	F/FW	Wilt and rotting disease management in tomato.	1	On campus	23	2	25	7	5	12
Plant Protection	F/FW	Shoot and fruit borer management in brinjal .	1	Off campus	22	3	25	6	3	9
Plant Protection	F/FW	Disease management in betelvine	1	Off campus	25	-	25	-	-	-
Plant Protection	F/FW	IDM in groundnut .	1	Off campus	6	19	25	8	2	10
Plant Protection	F/FW	Disease and pest management in sunflower	1	On campus	21	4	25	3	4	7
Plant Protection	F/FW	Borer pest management in bittergourd	1	Off campus	19	6	25	2	2	4
Plant Protection	F/FW	IPM in Marigold.	1	On campus	19	6	25	6	3	9
Plant Protection	F/FW	Management of Tea mosquito bug in cashew nut	1	On campus	22	3	25	7	3	10
Plant Protection	F/FW	Leaf curl disease management in chilli .	1	On campus	25	-	25	-	-	-
Plant Protection	F/FW	Blast disease management in ragi .	1	Off campus	25	-	25	11	-	11
Plant Protection	RY	Honey bee rearing management	2	On campus	15	-	15	4	-	4
Plant Protection	RY	Safe use of pesticide	2	On campus	9	6	15	2	2	4
Plant Protection	RY	New generation pesticides	2	On campus	10	5	15	2	1	3
Plant Protection	RY	IPM & IDM in groundnut	2	On campus	15	-	15	2	-	2
Plant Protection	IS	IPM and IDM in rice	1	On campus	5	5	10	-	-	-
Plant Protection	IS	IPM and IDM in cole crops	1	On campus	5	5	10	-	-	-

Fishery Science	F/FW	Importance of soil and water quality parameters in fish production	1 day	Off campus	15	10	25	6	06	12
Fishery Science	F/FW	Fish seed conditioning and transportation	1 day	Off campus	22	03	25	7	03	10
Fishery Science	F/FW	Production and management of Natural food in Nursery Pond	1 day	On campus	25	0	25	8	0	08
Fishery Science	F/FW	Culture practices in community pond	1 day	Off campus	23	02	25	0	02	02
Fishery Science	F/FW	Pond based IFS	1 day	Off campus	21	4	25	3	2	5
Fishery Science	F/FW	Production of Fish Fingerlings	1 day	On campus	18	7	25	2	0	2
Fishery Science	F/FW	Production practices of Yearling production	1 day	On campus	21	4	25	3	1	4
Fishery Science	F/FW	Use of feed additives in carp culture	1 day	Off campus	18	7	25	4	3	7
Fishery Science	F/FW	Feed Formulation and feeding management	1 day	On campus	20	5	25	2	3	5
Fishery Science	F/FW	Plankton Management in Grow-out pond culture	1 day	Off campus	15	10	25	6	06	12
Fishery Science	F/FW	Control and eradication of algal blooms and weeds in fish culture	1 day	On campus	22	03	25	7	03	10
Fishery Science	F/FW	Value addition and value added products from fish and shell fish	1 day	Off campus	22	3	25	8	2	10
Fishery Science	F/FW	Species diversification in Aquaculture and its Importance	1 day	Off campus	18	7	25	3	1	4
Fishery Science	F/FW	High input based Aquaculture Practicess	1 day	Oncam pus	16	9	25	5	3	8
Fishery Science	RY	High input based Aquaculture practices (BIOFLOC)	2 day	Off campus	10	5	15	2	1	3
Fishery Science	RY	Package and practices of Fingerling and Yearling production	2 day	Off campus	9	6	15	2	1	3
Fishery Science	RY	Ornamental fish culture as an Income generating activity	2 day	Off campus	11	4	15	3	1	4
Fishery Science	RY	Value addition and value added product preparation	2 day	Off campus	12	3	15	2	1	3
Fishery Science	IS	Recent Advances in Aquaculture Practices	1	On campus	5	5	10	-	-	-
Fishery Science	IS	Tools for accessing soil, water and disease diagnosis and treatment	1	On campus	5	5	10	-	-	-
Agril.	F/FW	Agro-forestry model and its	01	Off	16	9	25	4	2	6

Extension		importance on livelihoods		Campus						
Agril. Extension	F/FW	Formation of Farmers Producer Organisation	01	Off Campus	22	3	25	1	2	3
Agril. Extension	F/FW	Adoption of climate-resilient pracices for sustainable agriculture	01	Off Campus	20	5	25	0	0	0
Agril. Extension	F/FW	Production led extension to market led extension	01	Off Campus	17	8	25	0	0	0
Agril. Extension	F/FW	New dimension of extension approaches	01	Off Campus	15	10	25	2	0	2
Agril. Extension	F/FW	Collective marketing for higher income and profit	01	Off Campus	25	0	25	1	0	1
Agril. Extension	RY	Agri-preneurship Development towards self sufficiency	02	Off Campus	12	3	15	0	0	0
Agril. Extension	RY	Use of ICT (Information Communication Technology) materials in Agriculture	02	Off Campus	7	8	15	0	0	0
Agril. Extension	IS	Training Need Assessment of Farmers towards sustainable development	01	On Campus	5	5	10	0	0	0
Agril. Extension	IS	Value Chain analysis of major Agril. Commodities	01	On Campus	5	5	10	0	0	0
Home Sc.	F/FW	Improve method of paddy straw mushroom cultivation	01	Off campus		25	25		11	11
Home Sc.	F/FW	Improve method of oyster mushroom cultivation	01	Off campus		25	25		9	9
Home Sc.	F/FW	Nutritional garden	02	Off campus		50	50		22	22
Home Sc.	F/FW	Value addition	01	Off campus		25	25		6	6

H) Vocational training programmes for Rural Youth

a) Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
				Male	Female	Total	Type of units	Number of units	Number of persons employed	

*training title should specify the major technology /skill transferred

b) Details of participation

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Crop production and management													
Commercial floriculture													
Commercial fruit production													

Commercial vegetable production													
Integrated crop management													
Organic farming													
Other													
Total													
Post harvest technology and value addition													
Value addition													
Other													
Total													
Livestock and fisheries													
Dairy farming													
Composite fish culture													
Sheep and goat rearing													
Piggery													
Poultry farming													
Other													
Total													
Income generation activities													
Vermicomposting													
Production of bioagents, biopesticides,													
biofertilizers etc.													
Repair and maintenance of farm machinery &imlements													
Rural Crafts													
Seed production													
Sericulture													
Mushroom cultivation													
Nursery, grafting etc.													
Tailoring, stitching, embroidery, dying etc.													
Agril. Para-workers, para0vet training													
Other													
Total													
Agricultural													

Extension													
Capacity building and group dynamics													
Other													
Total													
Grand Total													

I) Sponsored Training Programmes

a) Details of Sponsored Training Programme

Sl.No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of participants	Sponsoring Agency
					PF/RY/EF			
1	PCRA		October and November	1		4	120	

b) Details of participation

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Crop production and management													
Increasing production and productivity of crops													
Commercial production of vegetables													
Production and value addition													
Fruit Plants													
Ornamental plants													
Spices crops													
Soil health and fertility management													
Production of Inputs at site													
Methods of protective cultivation													
Other													
Total													

Post harvest technology and value addition													
Processing and value addition													
Other													
Total													
Farm machinery													
Farm machinery, tools and implements													
Other (PCRA)	4	53	35	88	14	6	20	9	3	12	76	44	120
Total													
Livestock and fisheries													
Livestock production and management													
Animal Nutrition Management													
Animal Disease Management													
Fisheries Nutrition													
Fisheries Management													
Other													
Total													
Home Science													
Household nutritional security													
Economic empowerment of women													
Drudgery reduction of women													
Other													
Total													
Agricultural Extension													
Capacity Building and Group Dynamics													
Other													
Total													
Grant Total	4	53	35	88	14	6	20	9	3	12	76	44	120

3.4. A. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	20	340	60	400	15	20	5	25	360	45	405

Kisan Mela											
Kisan Ghosthi											
Exhibition											
Film Show											
Method Demonstrations											
Farmers Seminar											
Workshop											
Group meetings	2	30				5	2	7	35	2	37
Lectures delivered as resource persons	30	660	340	1000	22	250	250	500			
Advisory Services	35	18404	2200	20604	18	200	100	300	18604	2300	20904
Scientific visit to farmers field	160	945	310	1255	15			0	945	310	1255
Farmers visit to KVK	310	265	45	310	10			0	265	45	310
Diagnostic visits	25	205	56	261	12	24	12	36	229	68	297
Exposure visits				0				0	0	0	0
Ex-trainees Sammelan				0				0	0	0	0
Soil health Camp	4	155	25	180	8	4	2	6	159	27	186
Animal Health Camp											
Agri mobile clinic	22	344	156	500	10	25	6	31			
Soil test campaigns	4	155	25	180	8	4	2	6	159	27	186
Farm Science Club Conveners meet				0				0	0	0	0
Self Help Group Conveners meetings	2	36	14	50	2			0	36	14	50
Mahila Mandals Conveners meetings				0				0	0	0	0
Celebration of important days (specify)	18	1200	600	1800	15	102	32	134			
Sankalp Se Siddhi				0				0	0	0	0
Swatchta Hi Sewa	4	100	30	130	6			0	100	30	130
Mahila Kisan Divas	1		50	50	11	6	3	9	0	0	0
Any Other (Specify)				0				0	0	0	0
Total	590	22839	3911	26720	152	634	414	1054	20892	2868	23760

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	6
Radio talks	12
TV talks	12
Popular articles	6
Extension Literature	6
Other, if any	

3.5 a. Production and supply of Technological products

Village seed

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided							
					SC		ST		Other		Total	
					M	F	M	F	M	F	M	F
Total												

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Rice	CRDAHN-800	83	Rs 269750 (Approximately)								

Grand Total											

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Vegetable seedlings											
Cauliflower											
Cabbage											
Tomato	Arka Rakshak	74110	185275	12	18			16	4	28	22
Brinjal											
Chilli	Arka Harita Arka Meghna	59290	148225	16	14			7	3	23	17
Onion	Red3	622230	62223	10	30						
Others											
Fruits											
Mango											
Guava											
Lime											
Papaya	Red lady SapnaF1	250	6250	2	3	7	0	5	8	14	11
Banana											
Others(Drumstick)	Bhagya PKM-1	1600	24000	12	5	7	3	8	5	27	13
Ornamental plants	African marigold	10000	12000	5	3	-	-	7	-	12	3
Medicinal and Aromatic											
Plantation											
Spices											
Turmeric											
Tuber											
Elephant yams											
Fodder crop saplings											
Forest Species											
Others, pl.specify											
Total			437973								

Production of Bio-Products

Name of product	Quantity Kg	Value (Rs.)	No. of Farmers benefitted							
			SC		ST		Other		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizers(Vermicompost)	2200kg	33000					50		50	
Bio-pesticide										
Bio-fungicide										

Bio-agents											
Others, please specify. Earthworm	12kg	6000					10		10		
Total											

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Dairy animals											
Cows											
Buffaloes											
Calves											
Others (Pl. specify)											
Small ruminants											
Sheep											
Goat											
Other, please specify											
Poultry											
Broilers											
Layers											
Duals (broiler and layer)											
Japanese Quail											
Turkey											
Emu											
Ducks											
Others (Pl. specify)											
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings											
Spawn											
Others (Pl. specify)											
Grand Total											

3.5. b. Seed Hub Programme-*"Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India"*

i) Name of Seed Hub Centre:

Name of Nodal Officer :	
Address :	

e-mail :	
Phone No. : Mobile :	

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2020						
Rabi 2020-21						
Summer/Spring 2021						
Kharif 2021						
Rabi 2021-2022						

iii) Financial Progress

Fund received (2017-18, 2018-19, 2019-20, 2020-21, 2021-22)	Expenditure (Rs. in lakh)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2017-18				
2018-19				
2019-20				
2020-2021				
2021-2022				

iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

3.6.

(A) Literature Developed/Published (with full title, author & reference)

Item	Title	Author's name	Number	Circulation
Research paper				
Seminar/conference/ symposia papers				
Books	Zero Budget Natural farming	S. Lenka Scientist (Extn.)	500	

	Mandia Chasare Roga Poka	S .Mohanty , Scientist(PP)	500	
	Chinabadam Chasare Roga Poka	S .Mohanty , Scientist(PP)	500	
Bulletins				
News letter	Bharabi		200	
Popular Articles			2	
Book Chapter				
Extension Pamphlets/ literature			2	
Technical reports			25	
Electronic Publication (CD/DVD etc)			2	
TOTAL			1731	

N.B.: Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(B) Details of HRD programmes undergone by KVK personnel:

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.					
2.					
3.					
4.					
5.					
6.					
7.					

3.7. Success stories/Case studies, if any (two or three pages write-up on 1-2best case(s) with suitable action photographs)

Name of farmer	Mr. Tarini Reddy
Address	Vill- Kutharisingh, Block- Rangeilunda,Ganjam
Contact details (Phone, mobile, email Id)	Mob No-9938118541
Landholding (in ha.)	1.5
Name and description of the farm/ enterprise	Booming Farmers Income throughCrop Diversification
Economic impact	• Increases in crop yield. • Generate massive employment opportunities for the year round • Substetional increases in income • Multiple tangible and intangible benefits
Social impact	• Recognized innovative farmers in their village • Always invited in various social function and social organization. • Dignifying person in the society.
Environmental impact	• Environment and farmer friend approaches • In-sute conservation of resources

	• Judicious use of farm resources for sustainable development • Create a conducive environment for others
Horizontal/ Vertical spread	• The technology spread to 32 villages. • People are showing their interest to adopt the technology .

DFI Success

A DFI Initiative- Booming Farmers Income throughCrop Diversification

KVK, Ganjam-II

Name of farmer	Mr. Tarini Reddy
Address	Vill- Kutharisingh, Block- Rangeilunda Mob No-9938118541
Age	45 years
Education	10th standard
Size of landholding	4acres

Prologue: Tarini Reddy, a 45-year-old enthusiastic innovative small farmer from Kutharsingh village having 4 acres of cropland. The farmer got an annual profit of Rs. 82,671 from 3-acres land by traditionally cultivating of rice, beetle vine,vegetable, etc. and remain 1 ac becomes fellow since long.

Situation:Earlier Sh. Tarini cultivated rice, beetle vine and vegetables but it was not remunerative to manage his family day to day needs. The major constraints werelack of scientific knowledge, low yield of rice, beetle vine& vegetables with various diseases and pest outbreaks.

Efforts made by KVK: Realizing the needs of Sh. Tarini, KVK planned a systematic and scientific approach to improve income and livelihood through a diversified need-based approach.He attended numerous training programme on integrated crop management practices including new crop varieties,fruit, vegetables, beetle vine and rice production technologies.He was advised for seed treatment, STBF application, line transplanting, application of weedicides and timely control of diseases and pests. That helped him change the cultivation practices.

Impact: He has adopted the ICM practices with new high-yielding varieties to minimize the production cost. As a result, production has increased many folds due to the KVK association and technical interventions. The details of crop production areas follows:

Components	**Area (Acre)**	**Production (Q./No)**	**Gross Expenditure (Rs.)**	**Gross Income (Rs.)**	**Net Income (Rs.)**	**B:C Ratio**
Paddy variety Swarna Sub1	1 .5	28.6	32172	51440	19268	1.6
Beetle vine	1 .5	110	32142	90000	57858	2.8
Chilli, Brinjal, Tomato, Cauliflower	1	133	44600	130000	85400	2.9
Papaya	0.5	96	24800	76800	52000	3
Paddy straw mushroom	0.5		69000	220000	151000	3.1
Total			**202714**	**568240**	**365526**	**2.8**

Conclusion:Before the DFI initiative, he got a meager profit of Rs. 82,671. After DFI interventions Tarini got a profit of Rs.3,65,526 from 4 acres of land where the average benefit-cost ratio is 2.8. Now Tarini feels more secured due to the multifarious interventions that minimize the risk. Over 3 years, the socio-economic condition and way of living areconsiderably improved due to DFI

interventions.Now the technology spread to 5 adjacent villages of the block and the interventions have changed the mindset of villagers.

3.8 Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology
1	Pruning and Stacking of Tomato to minimize yield loses	Sh.Sanjib Kumar Patra	Yield reduction of tomato was very severe during Kharif season in Padripalli village. To avoid this, the farmer used their own innovative idea to overcome the adverse situation. Mr. Bijaya used the low-cost technology to overcome the adverse situation by using rope. But, he could partially succeed in this innovative method. Later he used locally available ipomoea and rope for stacking the tomato plant in his farmland. Later he used the bamboo stick for stacking tomato plant. The farmer got an increased yield of 44.35% to a tune of 253.76 q/ha from earlier 175.79 q/ha with an average 26 number of fruits per plant.

3.9. a. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	VEGETABLE	5 kg of various bitter leaves(Neem,Karanja,Dhatura, Poka sungha, Congress Grass, Castor) made small pieces and chopped and put in a drum with 10 lit of cow urine and 5 lit of water and coverd it. Intermittently stirring with a stick and kept for 35 days after 35 days took 1 lit & mix with 14 lit water and spray in one acre area. By The farmer got an increased yield of 36.35%	Application of Biopesticide to Control Pests in vegetable.
2	MARIGOLD	1 kg of lime and soaked in 20 litre of cow urine for one day then diluted by adding 25 liter of water and sprayed in marigold field.By this mites controlled and yield enhanced by 26%.	Control of mite in marigold

b. Give details of organic farming practiced by the farmer

Sl.	Crop / Enterprise	Area (ha)/	Production	No. of	Market available

No.		No. covered		farmers involved	(Y/N)

3.10. Indicate the specific training need analysis tools/methodology followed by KVKs

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed

3.11. a. Details of equipment available in Soiland Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
	Mridaparikshak	3 (2 new+1old)
	Shaker	3
	Hot plate	3

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
500	-	500	1150	30	

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1	World Soil Day	60	1	Mrs. Mamata Mohanty, PRA member, Sarapanch	30	30

3.12. Activities of rain water harvesting structure and micro irrigation system

No of training programme	No of demonstrations	No of plant material produced	Visit by the farmers	Visit by the officials

3.13. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology

3.14. RAWE/ FET programme - is KVK involved? (Y/N)

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

3.15. List of VIP visitors (Minister/ MP/MLA/DM/VC/Zila Sabhadipati/Other Head of Organization/Foreigners)

Date	Name of the person	Purpose of visit
10.11.2021	Dr Hemanta Sahoo, DDE, OUAT	KVK visit
28.12.2021	Prof . Simanchal Sahu, Dean Research ,OUAT	KVK visit

4. IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants

4.2. Cases of large scale adoption
(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread

Give information in the same format as in case studies

4.3.Details of impact analysis of KVK activities carried out during the reporting period

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms

4.4. Details of innovations recorded by the KVK

Thematic area	Crop management
Name of the Innovation	Innovation in management in field crops

Details of Innovator	Sri Balaji Dalei,Village-Giria,G.P-Giria , Block-Hinjilikatu, Dist- Ganjam
Back ground of innovation	Reducing pest and disease attack in field crop
Technology details	Paddy yield reduced by attack of different pests and diseases.To avoid this, the farmer used their own innovative idea to overcome the adverse situation. He sprayed salt and ash solution(2kg salt+ 8 kg ash+ 200 lit of water) to control leaf folder in one acre area. Similarly to control stem borers and fungal diseases in sugar cane field dried neem fruits are powdered and applied @ 200kg./ha. Maize seeds are soaked in cow urine for 12 hours before sowing for better germination
Practical utility of innovation	To control pest and disease and to increase productivity

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	
Name & complete address of the entrepreneur	
Role of KVK with quantitative data support:	
Timeline of the entrepreneurship development	
Technical Components of the Enterprise	
Status of entrepreneur before and after the enterprise	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	
Horizontal spread of enterprise	

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Pulse Research Station, Berhampur	• Provides the breeder and foundation seeds of the new varieties of the major crops of this district for multiplication and distribution to the farmers of this area. • Provides all possible technical guidance and helps in solving

	the problems related to pest and diseases of the crops of the area • Research results are being communicated to us for transfer of the same to the farming community. • Feed back collected from farmers on performance of research results are supplied to the RRS regularly for refinement.
District level line departments i.e. Agriculture,ATMA, Horticulture,Verterinary,Fishery, Forestry, Watershed, Minor Irrigation etc.	Member in DLTC,Convergence for different mandatory activities, collection of secondary data, identification of operational area, Prioritization of need, R-E linkage meeting, finalization of district level action plan, enterprenureship development etc.
NGOs, Prem, Sacala, Progress,Odissa etc.	As resource person for dessimination of technical knowledge
Small scale industries	Providing skill training for livelihood development
PNB(FTC)	Imparting training to farmers ,farmwomen and rural youth as resource person.
RITE	Providing support as a trainer in Agrilculture and allied sector.
CIMMYT	Hybrid Maize trial
CRRI, Cuttack	• Hyv, stress tolerant var. of Paddy
CTCRI, Regional Centre, Bhubaneswar	• Planting materials of tuber crops
CARI, Regional centre, Bhubaneswar	• Supply of Banaraja poultry bird and Khaki Campbell ducklings
NABARD	• Technical support to Farmers club .

5.2. List of special programmes undertaken during 2021by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)

(b) Programme for other activities (training, FLD,OFT, Mela, Exhibition etc.)

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Workshop on PCRA	4 nos	22.09.2021 to 02.11.2021	Director & SRO ,PCRA, Bhubaneswar	28000.00

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1. Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/bred	Produce	Qty.	Cost of inputs	Gross income	
1.									
2.									
3.									
4.									
5.									

6.									
7.									
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Rice	20.07.2021	15.12.2021	3	CRDHAN-800	FS	83	164490.00	269750.00 (Approx.)	

Performance of Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	22	12000	33000	
	Earthworm	12	1500	6000	

6.3. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Duckery	Khaki Campbell	Egg	200 Nos		800	
2.	IMC	Catla, Rohu, Mrigal	Adult & Yearlings	10,150 Nos		42200	
3.	Ornamental Fish	Molly	Juveniles	500 nos		3200	
4							
5							

6.4. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)

Total :			

(For whole of the year)

6.5. Utilization of staff quarters

Whether staff quarters has been completed:
No. of staffquarters:
Date of completion:
Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Saving (KVK, Contingency)	SBI	Golanthara	32409141533
Saving (KVK, Revolving)	SBI	Golanthara	32431628846

7.2. Utilization of funds under CFLD on Oilseed *(Rs. In Lakhs)*

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April, 2021
	Kharif	Rabi	Kharif	Rabi	

7.3. Utilization of funds under CFLD on Pulses *(Rs. In Lakhs)*

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2021
	Kharif	Rabi	Kharif	Rabi	
Greengram	88,800.00		88,800.00		0

2019.5. Utilization of KVK funds during the year 2021-22(Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances			
2	Traveling allowances			
3	Contingencies	2300000.00	1837500.00	1837500.00
A				
B				

C				
D				
E				
F				
G				
H				
I				
J	Swachhta Expenditure/ SAP Fund	15000.00		
TOTAL (A)				
B. Non-Recurring Contingencies				
1	Office equipment	100000.00		
2				
3				
4				
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

7.5. Status of revolving fund (Rs. in lakh) for last three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2019-20	41164.00	553732.00	410354.50	143377.50
2020-21	143377.50	513757.50	309252.00	204505.50
2021-22	204505.50	Cont..	Cont..	Cont..

7.6. (i) Number of SHGs formed by KVKs
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities
(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

Nameof activity	Number of activity	Season	With line department	With ATMA	With both

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
Blast	Rice	-	-	30 to 40%	Tricyclozole @1gm/liter
Seath blight	Rice			10 to 20%	validamycine @2 ml /liter
Blast	Ragi	-	-	20 to 25%	Tricyclozole @1gm/liter
Tikka	Groundnut	-	-	20 to 25%	Metalaxyl + Mancozeb @ 2gm/liter
Root rot	Groundnut	-	-	10 to 15%	Metalaxyl + Mancozeb @ 2gm/liter
wilting / root rot	Tomato, chilli	-	-	20 to 30%	Metalaxyl + Mancozeb @ 2gm/liter
cercospora	Cowpea			10 to 15%	carbendazin + Mancojeb @ 2gm/liter

powdery mildew	pointed gourd			20 to 30%	COC @ 3gm/lit

8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidity rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)

9.1. Nehru YuvaKendra(NYK) Training

Title of the training programme	Period		No. of the participant		Amount of Fund Received (Rs)
	From	To	M	F	

9.2. PPV & FR Sensitization training Programme

Date of organizing the programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration

9.3. *mKisan*Portal (National Farmers' Portal/ SMSPortal)

Type of message	No. of messages	No. of farmers covered
Crop	15	20200
Livestock		
Fishery	3	20200
Weather	5	20200
Marketing		
Awareness	7	20200
Training information		
Other	5	20200
Total	35	

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	
2.	No. of farmers registered in the portal	*20200*
3.	Mobile Apps developed by KVK	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
December	Awareness programme , Cleaning programme

b. Details of Swachhta activities with expenditure

Activities	**Number**	**Expenditure (in Rs.)**
1. Digitization of office records/ e-office		
2. Basic maintenance		
3. Sanitation and SBM	5	
4. Cleaning and beautification of surrounding areas	5	
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	2	
6. Used water for agriculture/ horticulture application		
7. Swachhta Awareness at local level	5	
8. Swachhta Workshops		
9. Swachhta Pledge	5	
10. Display and Banner	4	
11. Foster healthy competition		
12. Involvement of print and electronic media		
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	5	
14. No of Staff members involved in the activities	10	
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total		

9.6. Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with SeemaSurakshaBal/ BSF

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used

Give good quality 1-2 photograph(s)

9.9. Details of Swachhta Hi Suraksha programme(16-31.12.2021) organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)

9.10. Details of Mahila Kisan Divas programme(15.10.2021) organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Awareness programme	1	55	-	-

9.11. No. of Progressive/Innovative/Lead farmer identified (category wise)

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Sri Balaji Dalai	Giria, Hinjilikat 9861113749	Crop Production
2	Sri Bijaya Kumar Patro	Padripalli Kukudakhandi 9178324914	Vegetable
3	Sri Ramesh Dalai	Giria, Hinjilikat 7008029365	Crop Production
4	Sanjee Ku Patra	Padripalli Kukudakhandi 9556766108	Vegetable
5	Ruben Ku Patro	Padripalli Kukudakhandi 9439682787	Crop Production
6	Bishnu Charan Pradhan	Putipadar,Rangeilunda 9938325711	Crop Production
7	Kangali Sahu	Rajanapalli, Chatrapur 9861362564	Vegetable
8	Mohan Parihari	Rajanapalli, Chatrapur	Crop Production

		9668797622	
9	Sudhrshan Parihari	Rajanapalli, Chatrapur	Crop Production
10	Tapaswani Parihari	Rajanapalli, Chatrapur 9078297906	Vegetable
11	Madhuchanda Patra	Padripalli Kukudakhandi 9178324914	Vegetable
12	Durga Charan Sahu	9776405654 Hinjilikat	Vegetable
13	Pitamber Sahu	Hinjilikat	Vegetable
14	Udhab Patra	Balipada, Digapahandi 9438469217	Crop Production
15	Laxmi sahu	Jharapadar, Ganjam 9439578086	Crop Production
16	Rabindra Jena	Benagohiri,Santoshpur, Ganjam 9337385789	Fishery
17	Suresan Behera	Tareipatapur, Chatrapur 9861962700	Fishery
18	Somaya Reddy	Satyanarayanpur, Rangeilunda 9938417471	Fishery
19	Balaji Ready	Jharapadar, Ganjam 8144650208	Fishery
20	Mahantra Mahoant	Bananayee, Purusottampur 9439153492	Crop Production
21	Ramachandra Nahak	Sunathar, Purusottampur 9583821318	Crop Production
22	Deba Palai	Humbara, Chatrapur 993859808	Fishery
23	Jitendra Ku Sahu	Indrakhi ,Rangeilunda 7377801981	Fishery
24	Tikina Behera	Gautami,Sanakhemundi 7873846281	Fishery

9.12. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.			
2.			
3.			

9.13. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created

9.14. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e.	Present status of functioning

	IMD/ICAR/Others (pl. specify)	

9.15. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK

10. Report on Cereal Systems Initiative for South Asia (CSISA)

a) Year:
b) Introduction / General Information:

	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs
Experiment 1						
Experiment 2						
Experiment 3						
…						
..						
Others (If any)						

11. Celebration of World Food Day in 2021

Sl. No.	**Activities undertaken**	**No. of VIPs attended**	**No. of participants**		
			M	**F**	**T**
1	Awareness		40	17	57

12.Progress report of NICRA KVK (Technology Demonstration component) during the period (Applicable for KVKs identified under NICRA)

Natural Resource Management

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	

Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted				Remarks
		SC	ST	Other	Total	

		M	F	M	F	M	F	M	F	T	

Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	

Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	

Capacity building

Thematic area	No of Courses	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T

Extension activities

Thematic area	No of activities	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

Sl. No.	Name of the Award	Year	Conferring Authority	Amount	Purpose

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose

14. Any significant achievement of the KVK with facts and figures as well as quality photograph

15. Number of commodity based organizations/ farmers' cooperative society/ FPO formed/ associated with during last one year (Details of the group/society may be indicated)

Sl. No.	Name of the organization / Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
1	FPO	Deed No - U01100OR2019PTC032395	Maa Shyamalai Farmers producer company Limited, Hinjili , Ganajm	Finalization of 12 potential villages. Identification of targeted beneficiary and their membership enrollment for registration of FPO Resource mobilization for formation of FPO. Providing technical knowledge, skill and inputs for scientific cultivation of vegetables, To facilitate development of management systems in FPO. For smooth functioning of business operation KVK will lialise with	vegetables	862		

				various marketing channels				

16. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year

17. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3-5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1					
2					

18. a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2021

Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants						Whether uploaded to SIP Portal (Y/N)	Fund utilized for the training (Rs.)
				SC		ST		Other			
				M	F	M	F	M	F		

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs**., if any) if undertaken during 2021

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	

19. Information on NARI Project(if applicable)

Name of Nodal Officer	**No. of OFT on specified aspects**	**Title(s) of OFT**	**No. of FLD on specified aspects**	**No. of capacity development programme on specified aspects**	**Total no. of farm women/ girls involved in**	**Details of Issues related to gender mainstreaming addressed**

					the project	**through the project**

20. Specific programmes for the period

i. Achievements in SCSP (Scheduled Caste Sub-Plan) (Specific for SC farmers only)

Sl. No.	Activity	No. of SC farmers/ stakeholders		
		Male	Female	Total
1	On- farm trials			
2	Frontline demonstrations	208	191	399
3	No. of Training programmes for farmers			
4	Farmers trained			
5	No. of Training programmes for Extension Personnel			
6	Extension Personnel trained			
7	Participants in extension activities			
8	Distribution of seed	98	99	197
9	Planting material distributed			
10	Livestock strains and fingerlings distributed			
11	Soil, water, plant, manures samples tested	65	35	100
12	Mobile agro-advisory provided to farmers			
13	Other (Please specify)			

ii. Capacity building of farmers through training on Profitable Dairy Farming and Livestock Management (In case your KVK has Scientist (Animal/Veterinary Science))

Sl. No.	Title of the training	Date/ Duration	No. of Participants							
			SC		ST		Other		Total	
			M	F	M	F	M	F	M	F

iii. Status of Natural Farming

Crop/ Commodity involved in Natural farming	Area covered under such farming (ha)	No. of farmers practicing Natural farming at present	Details of individual farmers (Name and Contact No.)	Organic component/ inputs used for such farming

iv. Farmer Producer Organizations

a) General information

Sl. No.	Name & Address of FPO	Name &Contact No. of Head of FPO	No. of farmer members of FPO			Crop/ Enterprise dealt with by FPO	Kind of support provided by KVK in running/ starting of FPO (in brief)
			M	F	T		

b) Financial information

Name & Address of FPO	Date of Registration	FPO Registered (Y/N)	Application Submitted for Registration (Y/N)	No. of share-holding farmer members	Equity Amount Collected (Rs.)	Bank Account Opened (Y/N)	Board Reconstituted after attaining minimum membership (Y/N)

v. Nutri-gardens (Village wise)

Sl. No.	Name of village	Name of crop	Area under the crop (acre)	No. of farmers			Whether bio-fortified variety of crop used (If yes, mention variety & crop)
				M	F	T	

vi. Progress report on scientific beekeeping (2020-21 & 2021-22)

Name of KVK	Total budget allotted (Rs.)	Total budget utilized (Rs.)	Physical Training organized				Online Training organized			
			No. of training	No. of total participants			No. of training	No. of total participants		
				M	F	T		M	F	T

21. Any other programme organized by KVK, not covered above

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants

22. Good quality action photographs (with proper caption) of overall achievements of KVK during the year (best 10)

***