Year of Establishment 1994

Annual Progress Report 2023

Krishi Vigyan Kendra, Kendrapara

ICAR-ATARI, Kolkata

Odisha University of Agriculture & Technology

ANNUAL REPORT 2023 (January-December 2023)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
At: Jajang P.O: Kapaleswar Dist: Kendrapara Odisha - 754250	06727-274962		kendraparakvk@yahoo.co.in

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

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture and Technology Bhubaneswar - 751003	0674 - 2397970/ 2397818/ 2397719/ 2397669 / 2397719 / 2397919 / 2397868	0674 - 2397700	vcouat@gmail.com vc@ouat.ac.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Aurovinda Das		8895417939	aurovindadas@ouat.ac.in

1.4. Year of sanction of KVK: 1994

1.5. Staff Position (**as on 1st January, 2023**)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	PayScale with present basic	Date of joining	Permanent/ Temporary	Category (SC/ST/OBC/Others)
1.	Senior Scientist& Head	Dr. Surya Narayan Mishra	Senior Scientist and Head	Pl. Protection	79,800-2,11,500 (89,800) Transferred	8.9.2017	Temporary	Others
2.	Subject Matter Specialist	Namita Mahapatra	Scientist (Home Sc.)	Home Sc.	57,700-1,82,400 (82,200)	28.10.2011	Temporary	Others
3.	Subject Matter Specialist	Prabhanjan Mishra	Scientist (Horticulture)	Horticulture	15,600-39,100 + AGP 6000 (23,070)	21.11.2018	Temporary	Others
4.	Subject Matter Specialist	Dr. Tapas Ranjan Sahoo	SMS (Agronomy)	Agronomy	56,100-1,77,500 (63100)	21.11.2018	Temporary	OBC
5.	Subject Matter Specialist	Manas Ranjan Behera	SMS (Fishery Sc.)	Fishery Sc.	56,100-1,77,500 (63100)	3.6.2021	Temporary	OBC
6.	Subject Matter Specialist	-	-	-	-	-	Temporary	-
7.	Programme Assistant	Pravat Kumar Sahoo	Prog. Assistant (Agril.)	Soil Sc.	35,400-1,12,400 (46,200)	4.1.2016	Temporary	OBC
8.	Computer Programmer	Prasant Kumar Sahoo	Prog. Asst. (Computer)	Computer Sc.	35,400-1,12,400 (60,400)	3.6.2021	Temporary	OBC
9.	Farm Manager	Rajesha Kumar Mohapatra	Farm Manager	Agronomy	35,400-1,12,400 (38,700) Transferred	1.2.2019	Temporary	Others
10.	Accountant / Superintendent	-	-	-	-	-	Temporary	-
11.	Stenographer	Kishore Chandra Das	Jr. Steno-cum-Comp. Operator	-	25,500-81,100 (39,800)	23.12.2013	Temporary	Others
12.	Driver	Birendra Kumar Parida	Driver-cum-Mechanic	-	19,900-63,200 (23,800)	4.6.2021	Temporary	Others
13.	Driver	Anirudha Gochhayat	Driver-cum-Mechanic	-	19,900-63,200 (26,800)	7.7.2014	Temporary	SC
14.	Supporting staff	Bansidhar Parida	Peon-cum-watchman	-	16,600-52,400 (24,300) Retired	30.6.2014	Temporary	Others
15.	Supporting staff	Krushna Chandra Bhujabal	Peon-cum-watchman	-	16,600-52,400 (22,900)	29.7.2008	Temporary	Others

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.5
2.	Under Demonstration Units	1.5
3.	Under Crops	5.0
4.	Orchard/Agro-forestry	1.7
5.	Others with details (*Nallas*, natural drainage water ways)	1.5
	Total	**11.2**

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					✓	552	Yes	ICAR
2.	Farmers Hostel					✓	305	Under repair	ICAR
3.	Staff Quarters (6)					✓	265	Yes, but poor condition	ICAR
4.	Piggery unit								
5	Fencing					Partly completed		Used	RKVY
6	Rain Water harvesting structure								
7	Threshing floor					✓	250	Not used, damaged	ICAR
8	Farm godown					✓	40	Not used, damaged	ICAR
9.	Dairy unit								
10.	Poultry unit					✓		Yes	ICAR
11.	Goatery unit								
12.	Mushroom Lab					✓		Yes	ICAR

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
13.	Mushroom production unit								
14.	Shade house					✓	100	Used	Govt of Odisha
15.	Soil test Lab					✓	35	Not used, equipments non functional	ICAR
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
Motor bike (Hero Honda Super Splendor OR04G4022)	2007	42782	57884	Damaged
Bolero (Mahindra Bolero B2BS-VI) OD02CJ3643	2023	900000	12815	Good

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Flame Photometer	2005	0.66	Non-functional	ICAR
BOD incubator	2005	1.42	Non-functional	ICAR
Automatic Nitrogen estimation system (Kelp) analyzer	2005	3.57	Non-functional	ICAR
Hot air oven	2005	0.11	Non-functional	ICAR
Micro Processor (PH) Meter	2005	0.102	Non-functional	ICAR
Conductivity meter	2005	0.102	Non-functional	ICAR
Refrigerator	2005	0.092	Non-functional	ICAR
Electronic top balance	2005	0.95	Non-functional	ICAR
Physical Balance	2005	0.045	Non-functional	ICAR
Mechanical stirrer	2005	0.082	Non-functional	ICAR
Plant sample grinder	2005	0.08	Needs major repair	ICAR
Horizontal Shaker	2005	0.11	Needs major repair	ICAR
Distil water unit	2005	0.072	Needs major repair	ICAR
Laboratory centrifuge	2005	0.09	Needs major repair	ICAR
Hot plate	2005	0.025	Needs repairing	ICAR
Spectro photometer	2005	0.301	Needs major repair	ICAR
Flame photometer	2005	0.352	Needs major repair	ICAR
Kelplus	2005	0.45	Needs major repair	ICAR
MridaParikshyak	2017	0.90	Functional	ICAR
Autoclave	2011	0.60	Functional	ICAR
Laminar flow	2011	0.60	Requiring frequent repair	ICAR
b. Farm machinery				
Tractor	2019	700000	Good	ICAR
Paddy thresher	2015	12000	Good	ICAR
Winnower	2010	6000	Functional	ICAR
c. AV Aids				
LCD Projector	2006-07		Non-functional	ICAR
Digital camera – (2)	2009, 2015-16	27000	1 camera in working condition	ICAR
LED TV	2017-18	28000	Functional	ICAR
Laptop	2022	49540	Functional	ICAR
Desktop	2022	44150	Functional	ICAR
Laptop	2017	43237	Functional	NICRA
Desktop	2017	35000	Functional	ICAR
Printer	2023	17050	Functional	ICAR
Printer	2024	19900	Functional	ICAR
Printer	2024	24690	Functional	ICAR
Laptop	2024	45616	Functional	ICAR
Desktop	2024	48480	Functional	State Govt.

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Cage Wheel	2020	7,000	Good	ICAR
Tyned cultivator	2019	15000	Good	ICAR
Intercultural operation tools			Good	ICAR

1.8. Details SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	15.12.2023	30	• Indigenous varieties of rice may be included in KVK cafeteria • Promotional activity on water chestnut may be intensified in the suitable agroecology of the district • Poultry chicks as produced by district hatchery of ARD department may be used in KVK activities • Training programme to be imparted on spawn production and value addition of oyster mushroom. • Crop cafeteria on millet crops may be developed at KVK • Package of practices of DSR and skilling of rural youth on DSR may be focussed upon • Producer groups may be strengthened through processing and value addition activities like tomato, mushroom, millets etc. • FPOs may be involved in training and demonstration activities for their capacity building • Skilling of farmers for round the year fish seed production • Remunerative fish species may be identified under biofloc fish farming • Alternate low cost fish feeds may be developed to minimize cost of feeding • Technologies should be standardised for management of rugose spiralling whitefly in coconut • Entrepreneurs may be skilled on QPM production in appleber • KVK may increase activities in saline affected areas with special focus on soil management • KVK and JRS should have converging activities for promotion of technology for enhancement of productivity and profitability of jute		Since the SAC recommendations received in December 2023, the action points will be taken care in Action Plan 2024-25.

** Salient recommendation of SAC in bullet form*

2.A. DISTRICT LEVEL DATA ON AGRICULTURE, LIVESTOCK AND FARMING SITUATION (2023)

Sl.No.	Item	Information
1	Major Farming system/enterprise	Rice-fallow, Rice-greengram/ blackgram, rice-groundnut, rice-rice, Rice-pulse-vegetable, Rice-vegetable, Vegetable-vegetable, jute-blackgram/ greengram
2	Agro-climatic Zone	East & South-East Coastal Plain Zone
3	Agro ecological situation	Coastal Irrigated alluvium (AES-1) Rainfed alluvium (AES-2) Coastal alluvial saline (AES-3) Coastal waterlogged (AES-4)
4	Soil type	Alluvial Saline Black soil
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Rice: 2913 kg/ha Greengram: 370 kg/ha Blackgram: 390 kg/ha Groundnut: 2152 kg/ha Jute: 1936 kg/ha Vegetable crops: 130-270 q/ha
6	Mean yearly temperature, rainfall, humidity of the district	26.8^0 1501.3 mm 78.5 %
7	Production of major livestock products like milk, egg, meat etc.	Fish: 15900 MT/year

Note: Please give recent data only

2.b. Details of operational area / villages (2023)

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	Pattamundai	Pattamundai	Gandakula	Rice, pulses, vegetables fish, poultry, mushroom	• Wilt complex in brinjal, tomato and chilli • Severe infestation of mite, borer, sucking pests in vegetable crops • Severe weed infestation reducing productivity of direct seeded rice • Low profitability in direct seeded rice • Unavailability of suitable greengram varieties • Vast rice fallow areas • Low fish productivity due to improper stocking density and stocking ratio, poor feed and disease management • Losses in storage of pulses due to stored grain pest • Low mushroom production in paddy straw mushroom due to contamination, unavailability of quality spawn • Unavailability of chicks of suitable breeds of poultry • Low milk yield in milch animals due to improper feeding and unhygienic housing	IPM in vegetable crops ICM in DSR Varietal evaluation of greengram Rice fallow management Scientific pisciculture Livelihood support to farm women Feed management in dairy
2	Kendrapara	Kendrapara	Koro	Rice, Fishery, poultry, Diary Mushroom	• Low yield of rice due to pest infestation such as leaf folder, BPH, blast, stemborer • Vast rice fallow areas • High mortality of fish due to incidence of argulosis in IMC • Unavailability of quality spawn of paddy straw mushroom • Unavailability of chicks of suitable breeds of poultry • Low milk yield in milch animals due to improper feeding and unhygienic housing	IPM in rice Rice fallow management Scientific pisciculture Livelihood support to farm women Feed management in dairy

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
3	Derabish	Derabish	Nilakanthapur	Rice, pulses, Oilseeds Fishery, poultry, Mushroom	• Weed infestation in vegetable crops affecting crop performance • Severe infestation of mite, borer, sucking pests in vegetable crops • Low profitability in direct seeded rice due to weeds and high cost of cultivation • Unavailability of suitable greengram and blackgram varieties • Vast rice fallow areas • Underutilization of tanks and low fish productivity in biofloc fish farming • Losses in storage of pulses due to stored grain pest • Unsustainable livelihood Unavailability of chicks of suitable breeds of poultry • Low milk yield in milch animals due to improper feeding and unhygienic housing	IWM in vegetable crops IPM in vegetable crops ICM in DSR
4	Rajkanika	Rajkanika	Khulari	Rice, Fishery, poultry, Diary	• Incidence of mid- season and terminal drought in rice • Low yield of rice due to pest infestation such as leaf folder, BPH, blast, stemborer • Vast rice fallow areas • High mortality of fish due to incidence of argulosis in IMC • Non availability of suitable species for bifloc tanks • Unavailability of quality spawn of paddy straw mushroom • Unavailability of chicks of suitable breeds of poultry • Low milk yield in milch animals due to improper feeding and unhygienic housing	Drought management in rice IPM in rice Management of rice fallow

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
5	Garadpur	Garadpur	Berhampur	Rice, pulses, Oilseeds Vegetables poultry, Mushroom	• Weed infestation in vegetable crops affecting crop performance • Severe infestation of mite, borer, sucking pests in vegetable crops • Low profitability in direct seeded rice due to weeds and high cost of cultivation • Unavailability of suitable greengram and blackgram varieties • Vast rice fallow areas • Underutilization of tanks and low fish productivity in biofloc fish farming • Losses in storage of pulses due to stored grain pest • Unsustainable livelihood Unavailability of chicks of suitable breeds of poultry	ICM in DSR IPM in vegetable crops IWM in vegetable crops Backyard poultry rearing

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2023) for its development and action plan

Name of village	Block	Action taken for development
Gandakula	Pattamundai	• Increasing productivity of rice -pulse system under rice fallow • Promotion of Integrated farming system • Increasing productivity of rice through IPM for management of major pest and diseases • Increased livelihood security through rearing of dual purpose poultry bird • Increasing production potential of paddy straw mushroom through supply of quality spawn • Increasing fish yield through inter cropping of minor carps
Koro	Kendrapara	• Increasing productivity of rice based cropping system through integration of millet in the system • Promotion of Integrated farming system • Increasing productivity of rice through IPM for management of major pest and diseases • Increased livelihood security through rearing of duckery in backyard. • Increasing production potential of paddy straw mushroom through supply of quality spawn • Increasing fish yield through inter cropping of minor carps
Nilakanthapur	Derabish	• Increasing productivity of rice -pulse system under rice fallow • Promotion of Integrated farming system • Increasing productivity of rice through IPM for management of major pest and diseases • Increased livelihood security through rearing of dual purpose poultry bird • Increasing production potential of paddy straw mushroom through supply of quality spawn • Increasing fish yield through introduction of GI catla and amur carp
Berhampur	Garadpur	• Increasing productivity of vegetable based cropping system through introduction of new varieties • Improving productivity of groundnut through ICM • Increasing productivity of rice -pulse system under rice fallow • Promotion of Integrated farming system • Increasing productivity of rice through IPM for management of major pest and diseases • Increased livelihood security through rearing of dual purpose poultry bird • Increasing production potential of paddy straw mushroom through supply of quality spawn

Khulari	Rajkanika	• Increasing productivity of rice through INM and IWM • Promotion of Integrated farming system • Increasing productivity of rice through IPM for management of major pest and diseases • Increased livelihood security through rearing of dual purpose poultry bird • Increasing production potential of paddy straw mushroom through supply of quality spawn • Increasing fry yield through incorporation of micro nutrients • Improving productivity of biofloc system

2.1 Priority thrust areas

S. No	Thrust area
1	Resource conservation in rice, biotic stress management in rice
2	Enhancement of productivity of pulses
3	Crop residue management and crop diversification
4	Promotion of organic farming and natural farming
5	Promotion of millets: production and value addition
6	Soil health management
7	Pest management of vegetable crops
8	QPM production and promotion of remunerative horticulture
9	Species diversification, feed and disease management in pisciculture
10	Promotion of pond based integrated farming system
11	Low-cost feeding practices in livestock through promotion of fodder and azolla
12	Strengthening backyard poultry for small and marginal farmers
13	Cost minimization and processing in mushroom

3. TECHNICAL ACHIEVEMENTS

3.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	90	21	7	-	-	46	16	67	23	90	23	23	280	101	51	-	-	115	13	216	64	280

Training											Extension activities										
Number of Courses		Number of Participants									Number of activities		Number of participants								
Target	Achieve-ment	Target	Achievement								Target	Achieve-ment	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
87	87	2470	934	604	-	-	730	202	1664	806	2470	14950	15040		67035	24042	-	-	61126	24616	128161	48658	176819

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
1	1	4	3	0	0	7	6	11	9	20											

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
220	220	1,00,500	81,700

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
0.340	0.463	0.0028	0.00252

* 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	02		1	12.15			
Seminar/conference/ symposia papers							
Books	02						
Bulletins							
News letter	01	500					
Popular Articles	02	Mass					
Book Chapter	01						
Extension Pamphlets/ literature	04	7000					
Technical reports	185						
Electronic Publication (CD/DVD etc)	01	Mass					
TOTAL	198						

3.1 Achievements on technologies assessed and refined

OFT-1

1	Title of On farm Trial	**Assessment of Aromatic rice varieties**
2	Problem diagnosed	Low income from local aromatic rice varieties
3	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Cultivation of pimpudibasa, basumati TO_1: Aromatic rice var. Gangabali TO_2: Aromatic rice var. Kalikati
4	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RRTTS, Bhawanipatna, OUAT, 2020
5	Production system and thematic area	Rice –pulse, Varietal evaluation
6	Performance of the Technology with performance indicators	Cultivation of aromatic rice variety Kalikati recorded maximum yield and net return
7	Final recommendation for micro level situation	Cultivation of aromatic rice var. Kalikati
8	Constraints identified and feedback for research	Gangabali variety is more prone to neckblast resulted in maximum chaffy grains
9	Process of farmers participation and their reaction	Farmers have actively participated and are happy to find good results with new variety Kalikati

Thematic area: Varietal evaluation

Problem definition: Low income from local aromatic rice varieties

Technology assessed:

Technology option	No. of trials	Yield component			Aroma (organoleptic)	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. (1000 grain wt.)						
FP	7	12.6	86	22.3	7.3	24.2	42300	60500	18200	1.43
TO_1	7	14.6	93	22.1	6.8	29.4	42800	73500	30700	1.71
TO_2	7	15.3	98	22.4	7.1	32.6	42800	81500	38700	1.90
CD (p=0.05)	-	0.68	4.6	NS	-	2.34	-	-	-	-

Results: Cultivation of aromatic rice variety Kalikati recorded maximum yield(32.6 q/ha) and net return(Rs 38700 /ha)

OFT-2

1	Title of On farm Trial	Assessment of Nano Urea in Rice
2	Problem diagnosed	Higher use of Urea fertilizer leads to soil quality degradation
3	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: 100 % N (STBFA) soil application (25 % basal + 50 % at tillering + 25 % at PI) TO_1: 75 % N (STBFA) soil application (25 % basal + 50 % at tillering + 25 % at PI) + Foliar spray of nano urea @ 4 ml /lit. of water at tillering and PI) TO_2: 50 % N (STBFA) soil application (25 % basal+ 50 % at tillering + 25 % at PI) + Foliar spray of nano urea @ 4ml /l of water at tillering and PI)
4	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT 2021
5	Production system and thematic area	Rice –pulse, INM
6	Performance of the Technology with performance indicators	75 % N (STBFA) soil application (25 % basal + 50 % at tillering + 25 % at PI) + Foliar spray of nano urea @ 4 ml /lof water at tillering and PI) resulted maximum yield and net return.
7	Final recommendation for micro level situation	75 % N (STBFA) soil application (25 % basal + 50 % at tillering + 25 % at PI) + Foliar spray of nano urea @ 4 ml /l of water at tillering and PI)
8	Constraints identified and feedback for research	Require more research for validation
9	Process of farmers participation and their reaction	Farmers have actively participated and are happy to find reduction in dose of Urea in rice

Thematic area: Varietal evaluation

Problem definition: Higher use of Urea fertilizer leads to soil quality degradation

Technology assessed:

Technology option	No. of trials	Yield component			Cost saving in N	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	18.2	130	23.2	-	46.3	58300	92600	34300	1.58
TO_1	7	18.3	132	23.1	1900(3.25 %)	47.1	56400	94200	37800	1.67
TO_2	7	16.6	118	22.8	3700(6.34 %)	42.6	54600	85200	30600	1.56
CD	-	0.89	8.3	NS	-	1.36				

Results: 75 % N (STBFA) soil application (25 % basal + 50 % at tillering + 25 % at PI) + Foliar spray of nano urea @ 4 ml /l of water at tillering and PI) resulted maximumyield(47.1 q/ha) and net return(Rs 37800/ha) .

OFT-3

1	Title of On farm Trial	Assessment of millet integrated rice-based cropping system
2	Problem diagnosed	Low income from existing cropping farming system
3	Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)	FP: Rice-blackgram/greengram TO_1: Rice-finger millet TO_2: Finger millet-toria-greengram TO_3: Early rice-finger millet-greengram
4	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT, 2021
5	Production system and thematic area	Rice –pulse, Cropping system evaluation
6	Performance of the Technology with performance indicators	Early rice-finger millet-greengram gives 300 % cropping intensity with higher net return/ha (55,400)and maximum system yield 74.6 q/ha in terms of rice equivalent yield.
7	Final recommendation for micro level situation	Early rice-finger millet-greengram is more remunerative
8	Constraints identified and feedback for research	Fingermillet during kharif in medium land is not performing well
9	Process of farmers participation and their reaction	Farmers have actively participated

Thematic area: Cropping system evaluation

Problem definition: Low income from existing cropping system

Technology assessed:

Technology option	No. of trials	Yield component			Cropping intensity (%)	System Yield(REY) (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				200	56.3	72,300	1,12,600	40,300	1.55
TO_1	7				200	63.8	90,800	1,27,600	36,800	1.40
TO_2	7				300	42.6	83,400	85,200	1,800	1.02
TO_3	7				300	74.6	93,800	1,49,200	55,400	1.59
CD						9.63				

Results: Early rice-finger millet-greengram gives 300 % cropping intensity with higher net return/ha (55,400)and maximum system yield 74.6 q/ha in terms of rice equivalent yield.

OFT-4

1	Title of On farm Trial	Assessment of Bio-decomposer for in-situ rice residue management
2	Problem diagnosed	Environmental pollution from rice residue burning
3	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Burning of rice residues after harvesting with combine harvester TO_1: Use of PUSA bio-decomposer TO_2: Use of NRRI bio-decomposer
4	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IARI, New Delhi, 2019 & NRRI, Cuttack, 2020
5	Production system and thematic area	Rice –pulse, Crop residue management
6	Performance of the Technology with performance indicators	Application of PUSA decomposer resulted in early decomposition of rice straw in-situ
7	Final recommendation for micro level situation	Application of PUSA decomposer @ 4 capsules in 25 lit of water with 2 % jaggery solution and pulse powder for 1 ha resulted decomposition of rice straw within 95 days of application.
8	Constraints identified and feedback for research	Moisture is constraint during decomposition process and more efficient strains are required.
9	Process of farmers participation and their reaction	Farmers have actively participated and require more quick decomposition

Thematic area: Crop residue management

Problem definition: Environmental pollution from rice residue burning

Technology assessed:

Technology option	No. of trials	Observations			Cost of Interventions (Rs./ha)	Cultivation easiness for subsequent crop (rating)
		Initial Organic Carbon (%)	After one season Organic Carbon (%)	Decomposition % (25 days after)		
FP	7	0.42	0.41	-	500	10
TO_1	7	0.42	0.44	30	2000	4
TO_2	7	0.42	0.43	50	3000	4

Results: Rate of decomposition in in-situ application is very slow in both the TOs and cultivation easiness is not acceptable.

OFT-5

1.	Title of On farm Trial	Assessment of water chestnut varieties
2.	Problem diagnosed	No income from water logging land
3.	Details of technologies selected for assessment/refinement(Mention either Assessed or Refined)	FP: Cultivation of deep water rice TO_1: Cultivation of water chestnut var. Balasore Red TO_2: Cultivation of water chestnut var. Balasore Green
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIWM, 2016
5.	Production system and thematic area	Problematic water logged area & varietal trial
6.	Performance of the Technology with performance indicators	Days to get established, Plant height during flowering, Days to 1st flowering and fruiting, Numbers of fruits for Sq. m
7.	Final recommendation for micro level situation	Water chestnut is a suitable crop to be grown under swampy water logged problematic area. Revenue can be generated form water logged fallow land with little effort and management. It will not only keep environment clean but incorporated biomass to the soil
8.	Constraints identified and feedback for research	Nutrient management and proper standardized nutrient management
9.	Process of farmers participation and their reaction	Direct involvement and as the crop cultural practice was new to them, they learned from their lacunas

Thematic area: Production techniques

Problem definition: No income from water logging land

Technology assessed: Varietal assessment of water chestnut varieties - Balasore Red and Balasore Green

Technology option	No. of trials	Yield component			Av. numbers of fruits per Sq. m	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of days to get established after planting	Plant height during flowering	Days to 1st flowering						
FP	7	-	-	-	-	42.3	55600	84600	29000	1.52
TO_1	7	6 days	178 cm	87 days	138	152	89,000.00	2,50,800	1,61,800	2.82
TO_2	7	6 days	195 cm	79 days	122	159	89,000.00	2,62,350	1,73,350	2.94

Results: Water chestnut crop was found suitable for the Kendrapara district, once after planting the crop get established within a week under field condition. Yield wise Balasore Green was found superior overBalasore Red variety whereas Balasore Red has good market demand due to its appealing colour.

OFT-6

1.	Title of On farm Trial	Assessment of time of planting Tomato varieties for round the year availability
2.	Problem diagnosed	Unavailability of locally cultivated tomato during summer
3.	Details of technologies selected for assessment/refinement(Mention either Assessed or Refined)	FP: No cultivation practice TO_1: Planting time first week of February TO_2: Planting time mid-February TO_3: Planting time first week of March
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIVR, Varnashi, 2022& IIHR-2019
5.	Production system and thematic area	Medium land irrigated & varietal trial
6.	Performance of the Technology with performance indicators	Fruit set %, percentage of sun scald,cost of intervention. Additional income out of this crop, B:C ratio
7.	Final recommendation for micro level situation	Tomato crop can be transplanted post 1st week of February, although yield is lower than main rabi season crop but farmers are getting higher return in comparison to normal season
8.	Constraints identified and feedback for research	Tomato crop transplanted in 1st week of February performed better than mid-February and 1st week of March as the average mean temperature was lower by 7 degree Celsius. Fruit setting affected, hot set varieties to be developed.
9.	Process of farmers participation and their reaction	Farmers' were directly involved in the staggered time of transplanting of tomato. They are positive after getting higher return although yield was lower in comparison to the main transplanting season. Demanding better plant growth promoter for better fruit setting.

Thematic area: Production techniques

Problem definition: Non-availability of locally produce tomato

Technology assessed: Staggeredtime of planting

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
		percentage of sun scald	Additional income (in Rs.)					
FP: Planting in Dec-Jan	7	-		435	104600	261000	156400	2.49
Planting time first week of February	7	5	31400	380	116200	304000	187800	2.62
Planting time mid-February	7	12	38900	350	119700	315000	195300	2.63
Planting time first week of March	7	17	54400	333	122200	333000	210800	2.73

Results: Tomato crop transplanted in 1st week of March resulted higher additional income over the farmers practice. Though yield was low in comparison to farmers practice, but the higher market price fetch and additional income of Rs. 54400.00 with a B:C ratio of 2.73

OFT-7

1.	Title of On farm Trial	Assessment of management of fruit fly in bitter gourd
2.	Problem diagnosed	Low yield of bitter gourd due to fruit fly
3.	Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)	FP: Spraying of Profenophos 50EC @ 2ml /l twice at 15 days interval TO_1: Soil application of Chlorpyriphos 1.5 % dust @ 25 kg/ha at 30 DAG; Poison bait-Jaggery (100 g), Cartap hydrochloride (2 g) & water (1 litre), placement of bait solution, Installation of Cuelure @ 20/ha, Periodic removal of damaged fruit in bitter gourd TO_2: Food bait @ (20 baits/ ha, 100ml/ bait) (Mixture of 1kg cucumber fruit pulp + 50g Gur + 100ml cow urine + 0.5 lit water and kept for overnight, diluted in 5 lit water and added 10 ml malathion) + Pheromone trap with Cuelure @ 25 traps / ha installed at 20 DAS (Change of lure at 20 days interval) + foliar spray with Spinosad 45 % SC @ 170 ml/ ha at 30, 45, 60 and 75 DAS
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO1: OUAT, 2020 TO2: OUAT, 2023
5.	Production system and thematic area	IPM
6.	Performance of the Technology with performance indicators	TO_2 proved significantly better over other treatments with a 48.48% increase in yield over farmers practice and net income and B:C ratio of 103200/- and 2.30 respectively.
7.	Final recommendation for micro level situation	Food bait @20 placement/ ha, (100ml/bait) (Mixture of 1kg cucumber fruit pulp + 50g Gur + 100ml cow urine + 0.5 l water and kept for overnight, diluted in 5 l water and added 10 ml malathion) + Pheromone trap with Cuelure @ 25 traps / ha installed at 20 DAS (Change of lure at 20 days interval) + foliar spray with Spinosad 45 % SC @ 20 ml/ ha at 30, 45, 60 and 75 DAS
8.	Constraints identified and feedback for research	Market availability of fruit fly trap is one of the constraint
9.	Process of farmers participation and their reaction	Farmers were involved in bait preparation and its placement. Food Bait and fruit fly trap installation were widely accepted by the beneficiary farmers.

Thematic area: IPM

Problem definition: Low yield of bitter gourd due to fruit fly

Technology assessed:

Technology option	No. of trials	Infested fruit (%)	Avg insect catch/trap/week	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	34.0	-	84.7	74300	127100	52800	1.71
TO_1	7	8.1	33	111.9	79400	167900	88500	2.13
TO_2	7	7.4	41	122.1	80000	183200	103200	2.30
CD, p=0.05				10.5				

Results: TO_2 comprising of integrated application of Food bait @ 20 no./ ha, + Pheromone trap with Cuelure @ 25 traps / ha, + foliar spray of Spinosad 45 % SC @ 170 ml/ ha at 30, 45, 60 and 75 DAS was found to give best control of fruit fly in bitter gourd resulting in highest net return of Rs.103200/ha with decreased fruit infestation.

OFT-8

1.	Title of On farm Trial	Assessment of IPM strategy for management of YVMV in greengram
2.	Problem diagnosed	Low yield of greengram due to YVMV infestation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Spraying with Cypermethrin @2gm per lit water twice at 15 days interval TO_1: Seed treatment with Thiamethoxam 25 % WG @ 5g/kg seed followed by installation of yellow sticky trap (YST) 50/ha and spraying of Acetamiprid @ 0.03% twice at 30 days after sowing and at 15 days interval TO_2: Seed treatment with Imidacloprid 600 FS @ 5 ml/ kg, placement of yellow sticky trap @ 50/ha, spraying of Neem oil 0.15% @ 2 ml/l at 30 DAS and need based spraying of Diafenthiuron 50 % WP @ 1 gm /l at 45 DAS
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO1: OUAT,2019 TO2: OUAT 2020-21
5.	Production system and thematic area	IPM
6.	Performance of the Technology with performance indicators	TO_2 gave best result with yield 5.17 Q per ha which is 41.65% more yield than the farmers practice with a B:C ratio of 1.95
7.	Final recommendation for micro level situation	Seed treatment with Imidacloprid 600 FS @ 5 ml/ kg, placement of yellow sticky trap @ 50/ha, spraying of Neem oil 0.15% @ 2 ml/l at 30 DAS and need based spraying of Diafenthiuron 50 % WP @ 1 gm /l at 45 DAS
8.	Constraints identified and feedback for research	Market availability of the seed treatment chemicals is a constraint
9.	Process of farmers participation and their reaction	Farmers actively participated in the process of whole IPM package and were widely accepted by the beneficiary farmers

Thematic area: IPM

Problem definition: Low yield of green gram due to YVMV infestation

Technology assessed:

Technology option	No. of trials	No. of infected plants/ 10 sq mt	Avg insect catch/trap/week	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	13	-	3.65	14400	25550	11150	1.78
TO_1	7	3	-	4.98	18300	34900	16600	1.91
TO_2	7	1	-	5.17	18600	36200	17600	1.95

Results: Seed treatment with Imidacloprid 600 FS @ 5 ml/ kg, placement of yellow sticky trap @ 50/ha, spraying of Neem oil 0.15% @ 2 ml/l at 30 DAS and need based spraying of Diafenthiuron 50 % WP @ 1 gm /l at 45 DAS gave best result with B:C ratio of 1.95

OFT-9

1.	Title of On farm Trial	Assessment of the improved techniques for cultivation of paddy straw mushroom (*Volvariella volvacea*) using crumpled straw
2.	Problem diagnosed	Less income due to low yield of paddy straw mushroom and high rate of straw bundles
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Rectangular compact method Size 45 X 60 cm^2 TO_1: Square compact bed Size 30 X 30 cm^2 TO_2: Circular compact bed Size 45 cm diameter
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore-2012
5.	Production system and thematic area	Homestead
6.	Performance of the Technology with performance indicators	The square compact bed of size 30cm × 30 cm (TO_1) performed better than farmer practice & TO_2, with an yield of 0.571 kg/bed and B:C ratio of 1.67
7.	Final recommendation for micro level situation	Square compact bed Size 30 X 30 cm^2 is more productive and profitable
8.	Constraints identified and feedback for research	Lack of 2nd fruiting in mushroom this bed method.
9.	Process of farmers participation and their reaction	Farmers have actively participated

Thematic area: Mushroom production

Problem definition: Less income due to low yield of paddy straw mushroom and high rate of straw bundles.

Technology assessed:

Technology option	No. of trials	Yield(kg/bed)	YieldChange(%)	Cost of cultivationper bed (Rs)	Gross returnper bed (Rs)	Net returnper bed (Rs)	BC ratio
FP	7	0.428	-	48	59.92	11.92	1.25
TO_1	7	0.571	33.4	48	79.94	31.94	1.67
TO_2	7	0.457	6.8	48	63.98	15.98	1.33

Results: In this trial, the square compact bed of size 30cm × 30 cm (TO_1) performed better than farmer practice & TO_2, with a yield of 0.571 kg/bed and B:C ratio of 1.67.

OFT - 10

1.	Title of On farm Trial	Assessment of Arka Mushroom Nutri-Cereal Cookies for enhancing income of SHGs' and APOs'
2.	Problem diagnosed	Low income and low nutrition due to plain biscuit preparation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP - Preparation of cookies from refined wheat flour TO_1 - Preparation of Arka Mushroom Nutri-Cereal Cookies- Oyster Mushroom Powder in combination with Jowar powder TO_2 - Preparation of Arka Mushroom Nutri-Cereal Cookies- Oyster Mushroom Powder in combination with finger millet/ragi
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR Annual Report 2021
5.	Production system and thematic area	Homestead / Value addition
6.	Performance of the Technology with performance indicators	Preparation of Arka Mushroom Nutri-Cereal Cookies- Oyster Mushroom Powder in combination with Jowar powder gives more return.
7.	Final recommendation for micro level situation	Appreciated by women farmers who are continuing preparation of Arka Mushroom Nutri-Cereal Cookies (Oyster Mushroom Powder in combination with finger millet/ragi)
8.	Constraints identified and feedback for research	NIL
9.	Process of farmers participation and their reaction	SHG members conducted the OFT

Thematic area: Value addition

Problem definition: Low income and low nutrition due to plain biscuit preparation

Technology assessed:

Technology option	No. of trials	Cost of production(Rs./kg)	Gross return (Rs/kg)	Net return(Rs./kg)	BC ratio
FP	7	486	720	234	1.48
T O_1	7	592	1320	728	2.23
T O_2	7	577	1200	623	2.08

Results: Arka Mushroom Nutri-Cereal Cookies prepared with oyster mushroom powder in combination with jowar powder (TO_1) was found to be better than the cookies prepared from wheat flour in FP.The product fetched better prices in market for which the net return was highest i.e 728 per kg product.

OFT-11

1	Title of On farm Trial	Assessment of growth promoters for maximizing carp fry yield in Nursery tank
2	Problem diagnosed	Low yield of carp fry due to non-use of growth promoters
3	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP - Use of only powdered feed (Rice bran: GNOC:: 1:1) TO_1 - Use of Manganous sulphate and Cobaltous chloride each at a dose of 0.01 mg per spawn per day (incorporated with powdered feed) TO_2 – Use of commercially available yeast powder (*S. cerevisiae*) at a dose of 0.5% of total powdered feed to be served daily
4	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-CIFA, 2013 TNAU, 2019
5	Production system and thematic area	Pond based
6	Performance of the Technology with performance indicators	TO 1 resulted 23.16 % higher yield over Farmers practice with lesser culture period
7	Final recommendation for micro level situation	Use of Manganous sulphate and Cobaltous chloride each at a dose of 0.01 mg per spawn per day
8	Constraints identified and feedback for research	NIL
9	Process of farmers participation and their reaction	Farmers have actively participated and happy with the technology

Thematic area: Fish seed production

Problem definition: Low yield of carp fry due to non-use of growth promoters

Technology assessed:

Technology option	No. of trials	Yield component		Yield (Lakh of fry/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Survival rate(%)	DOC to attend avg. fry size(25 mm)					
FP	7	31.2	19	21.89	1,83,950	4,37,800	2,53,850	2.38
TO_1	7	38.5	14	26.96	2,04,242	5,39,200	3,34,958	2.64
TO_2	7	34.8	16	24.40	1,97,571	4,88,000	2,90,429	2.47

Results: Use of Manganous sulphate and Cobaltous chloride each at a dose of 0.01 mg per spawn per day (incorporated with powdered feed) resulted in maximum fry yield (26.96 lakh fry/ha) and the highest net return of Rs 3,34,958/ha.

OFT-12

1	Title of On farm Trial	Assessment of growth performance of different species in Biofloc system
2	Problem diagnosed	Low yield of Vietnam koi in Biofloc culture system
3	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP - Stocking Vietnam koi @ 100 per m^3 TO_1 - Stocking of male tilapia fingerlings @ 100 per m^3 TO_2- Stocking of Amur carp fingerlings @ 100 per m^3
4	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	NFDB, Hyderabad 2018
5	Production system and thematic area	Biofloc tanks
6	Performance of the Technology with performance indicators	TO_1 resulted higher yield than TO_2
7	Final recommendation for micro level situation	All male Tilapia are suitable for Biofloc culture and is recommended
8	Constraints identified and feedback for research	Nil
9	Process of farmers participation and their reaction	Farmers have actively participated and happy with the technology

Thematic area: Biofloc fish production

Problem definition: Low yield of Vietnam koi in Biofloc culture system

Technology assessed:

Technology option	No. of trials	Average body weight (kg)	Yield (q/tank)	Cost of cultivation (Rs./tank)	Market price (₹/kg)	Gross return (Rs/tank)	Net return (Rs./tank)	BC ratio
FP	7	-	-	-	-	-	-	-
TO_1	7	0.45	4.30	19,282	100	43,000	23,718	2.23
TO_2	7	0.42	4.10	23,010	110	45,100	22,090	1.96

Results: Higher yield obtained in TO_1 where male Tilapia was stocked as compared to TO_2.

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	Rice	IWM in DSR	Pre-emergence application of pyrazosulfuron ethyl @ 20 g/ha i.e 0-3 DAS followed by post-emergence application of Bispyribac sodium @ 25 g/ha at 25 DAS	2	2	2	0	0	0	8	0	10	0	10	
2	Rice	Disease management (management of sheath blight in rice)	Spraying of the combination fungicide Azoxystrobin+ Difenconazole @ 1ml/lit twice at 15 days interval starting from initiation of the infection	1	1	1	0	0	0	9	0	10	0	10	

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					
Rice	Kharif	Rainfed	Alluvial	126.7	12.6	276.4	Greengram/ Blackgram	23.6.2023	13.11.2023	842	63
Rice	Kharif	Rainfed	Alluvial	132	16	236	Greengram/ Blackgram	5.7.2023	27.11.2023	935	78

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	IWM	Pre-emergence application of pendimethalin 30%+ imazethyper 2%@ 1.0 kg/ha ready mix fb post emergence application of quizalfop-p-ethyl @50g/ha at 20 DAS	12	2.5	22.2	19.1	16.2	68000	133200	65200	1.96	64000	114600	50600	1.80
Groundnut	IDM	Seed treatment with Carboxin 37.5% + Thiram 37.5 % @ 2.5 gm/ kg seeds during sowing and need base alternative spraying of Chlorothalonil 75% WP @ 1.5 gm/lt and Carbendazim 2 gm/lt at 15 days interval (collar rot disease management in groundnut)	15	2.5	20.5	17.6	16.5	67600	123000	55400	1.82	61400	105600	44200	1.72
Total			27	5											

* 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
Blackgram	INM	Use of soil test-based fertilizers application+ organic integration (FYM @ 5t/ha or vermicompost 2.5t/ha) + seed inoculation of Rhizobium @1.25kg/25 kg of seed	15	2	5.1	4.4	15.9	21000	35700	14700	1.70	19000	30800	11800	1.62
	Total		15	2											

* 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	IWM	Pre-emergence application of pyrazosulfuron ethyl @ 20 g/ha i.e 0-3 DAS followed by post-emergence application of Bispyribac sodium @ 25 g/ha at 25 DAS	10	2	46.7	44.2	5.6	86% WCE	72% WCE	58000	93400	42872	1.61	60000	88400	28400	1.47

Jute	PHT	Application of NINFET SATHI (retting accelerator) powder formulation @ 40 kg/ha	10	2	23.6	22.4	5.35	Retting period - 14 days	Retting period - 19 days	54000	134520	80520	2.49	50000	112000	62000	2.24
Rice	Disease management	Spraying of the combination fungicide Azoxystrobin+ Difenconazole @ 1ml/l twice at 15 days interval starting from initiation of the infection (management of sheath blight in rice)	10	1	48.30	41.0	17.8	-	-	56500	96600	40100	1.71	52600	82000	29400	1.56
Dragon fruit	Cultivation of high value crop	Cultivation of dragon fruit var. Red flesh	10	0.4	Cont..												
Grafted Brinjal	Production management	Grafted brinjal cultivation (Grafted scions of VNR 212)	10	0.4	663.00	323.6	10.5	First fruiting in 38 days	First fruiting 47 days	221608	663000	441392	2.99	128640	323600	194960	2.52
Watermelon	Quality planting material production	Seed production in watermelon with an isolation distance of 1000 m	10	0.4	3.39	330	--			115570	406800	291230	3.52	105000	330000	225000	3.14

Banana	Quality planting material production	Production of QPM of banana by macro propagation method	10	0.4	9450 no.	4375 no.	216	-	-	75500	141750	66250	1.87	41875	65625	23750	1.57
Chilli	IPM	Soil application of neem cake @ 2.5 q/ha, Installation of blue sticky traps @50 no./ha, application of Difenthiuron 50WP and Spiromesifen 240 SC @ 0.6 ml/l at 10 days interval (integrated management of thrips and mite in chilli)	14	1	63.3	52.6	20.3	Mite/ leaf :1.4 Thrips / upper 3 leaves: 1.5	Mite/ leaf: 8.5 Thrips / upper 3 leaves: 11.5	150000	316500	166500	2.11	139150	263000	123850	1.89
Tomato	Pest management	Alternate spraying of insecticides Abamectin 1.8 EC @ 300 ml/ha and Fipronil 5 % SC @ 1000 ml/ha at 30 & 45 DAS (management leaf minor in tomato)	10	1	245.5	195.8	25.4	Infested leaf/ plant 3.5 Damaged fruit/ plant 1.0	Infested leaf/ plant :27.0 Damaged fruit/ plant: 7.5	165700	367800	166500	2.11	139150	263000	123850	1.89

Greengram	INM	OUAT liquid Rhizobium @ 10ml/kg + 10ml PSB/kg of seed	10	1.5	5.7	5.2	9.6	-	-	23300	39900	16600	1.71	23800	36400	12600	1.52
Beans		Liquid rhizobium @ 10ml/kg + 10 ml PSB/kg of seed	10	1.0	62.5	54.4	14.89			121300	250000	128700	2.06	127000	217600	90600	1.71
Brinjal		Liquid Azospirillum @ 10ml/kg + 10 ml PSB/kg of seed	10	1.0	191.4	165.5	15.65			190600	382800	192200	2.00	205300	331000	125700	1.61
Brinjal	INM	INM in Brinjal Application of 50%RDF + Vermicompost (2.5 ton/ha) + Azotobacter: Azospirillum: PSB @ 4kg/ha applied 3 time (Basal, 30 days & 45 days) resulted maximum yield in Brinjal	10	2.0	198.5	169.2	17.31			192500	397000	204500	2.06	227300	338400	111100	1.49
Bitter gourd	INM	Micronutrient management in Bittergourd Soil application of Zinc @2.5 kg/ha and Boron @ 1 kg/ha with STBF	10	2.0	61.3	52.1	17.66			118300	245200	126900	2.07	145200	208400	63200	1.44
		Total	144	16.1													

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																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Others (pl. specify)																	
Poultry Feed preparation	Feed management	Low cost poultry Feed preparation	10	100	Body Wt. at 3 months : 3kg	2.2 kg	36%	-	-	89.1 (feed cost/ one bird)	330 (cost of bird)	240.9	3.7	116.1 (feed cost/ one bird)	345 (cost of bird)	228.9	2.97
Backyard duckery	Feed management	Azolla feeding to duck	10	150	Egg No/ bird /yr:220	200	10 % more eggs and 11.11 % more live wt in Demo	Body Wt / bird / yr 3.0 kg	Body Wt / bird / yr 2.7 kg	708	1840	1132	2.6	740	1670	930	2.3
Total			20	250													

* 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	Yield (q/ha)		% 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
Carps	Pond management	Application of soil probiotic @ 1 kg/Ac-m water area and water Probiotic @ 5 L/ Ac-m water area in grow out culture	10	10	38.6	32.5	18.6			204423	464040	259617	2.27	185289	390960	205671	2.11
Java Punti	Intercropping with IMC	Incorporation of Java Punti with Indian Major Carps i.e. stocking of Catla:Rohu: Mrigal:JavaPunti::3:4:3:2 @ 12000 nos/ha	10	10	39.5	32.1	22.8			205298	474240	268942	2.31	177137	386160	209023	2.18
GI Catla	Composite culture	Incorporation of GI Catla in composite carp culture with species ratio of GICatla:Rohu: Mrigal::3:4:3 @ 10000 nos/ha	10	10	39.1	32.9	18.8			208373	468840	260467	2.25	183460	394440	210980	2.15
Amur carp	Composite culture	Stocking of fingerlings of Catla:Rohu: Mrigal:Amur carp= 3:4:1.5:1.5	10	10	38.23	32.05	19.28			210440	458760	248320	2.18	197230	384600	187370	1.95
Mussels																	
Ornamental fishes																	
Others (pl.specify																	
		Total	40	40													

* 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 demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom																
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Value addition	Tomato ketchup	10	10	3.5kg ketch up/ 10 kg raw tomato	Rs 100/ 10 kg tomato		Shelf life 6 months	Shelf life 10 days	170	525	355	3.1	65	100	20	1.53
Value addition	Mushroom soup powder	10	10	300 gm/ 1 kg mushroom	Rs 60/ 1 kg mushroom		Shelf life 6 months	Shelf life 12-24 hours	700	2400	1700	3.42	25	60/ kg raw mushroom	20	2.4
Total		20	20													

* 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										
Brinjal										
Okra										
Onion										
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										

Good quality photographs of FLDs

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1.	Rice	• These herbicides are not available in local market • Genuine herbicide products are mostly unavailable
2.	Blackgram	• Soil testing facility is not sufficient in district • Organic manure FYM availability is an issue • Genuine rhizobium biofertilizers are not available in market
3.	Groundnut	• Herbicide combination product is not available in local market • Availability of optimum moisture is a limitation for preemergence application
4	Banana	• Macro-propagation requires lot of skill for its success

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	21.11.2023, 24.11.2023, .30.11.2023, 6.12.2023, 13.12.2023, 19.12.2023, 26.12.2023, 29.12.2023, 4.1.2024, 9.1.2024, 11.1.2024, 17.1.2024, 20.1.2024, 29.1.2024, 6.1.2024, 16.2.2024, 22.02.2024, 26.2.2024, 2.3.2024, 7.3.2024	21	1050	
2.	Farmers Training	15.07.2023, 31.08.2023, 16.01.2024, 02.02.2024, 20.07.2023, 21.08.2013, 31.08.2023, 05.10.2023, 01.12.2023, 09.01.2024, 29.01.2024-31.01.2024, 07.02.2024, 15.09.23, 26.09.23, 06.11.23	15	450	
3.	Media coverage	16.11.2023, 23.12.2023, 29.12.2023, 26.2.2024	4	Mass	
4.	Training for extension functionaries	20.10.2023, 16.01.2024	2	60	

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2023 and Rabi 2022-23: No allotment for the reporting year

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P

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

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)

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

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback

F. Extension activities under FLD conducted:

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

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

H. Farmers' training photographs

I. Quality Action Photographs of field visits/field days and technology demonstrated.

J. Details of budget utilization

Crop(provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input			
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field Day)			
	iv)Publication of literature			
	Total			

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													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total													
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Off0season vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables													

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
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
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													
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													

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
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													
Integrated water management													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
others													
Total													
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													
Integrated Disease Management													
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
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													
VIII. Fisheries													
Integrated fish farming													
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													
Pearl culture													
Fish processing and value addition													
Others													
Total													
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													

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													
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													

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													
Integrated farming													
Seed production	1	15	0	15	5	0	5	0	0	0	20	0	20
Production of organic inputs	2	10	8	18	16	6	22	0	0	0	26	14	40
Planting material production	2	13	5	18	18	4	22	0	0	0	31	9	40
Vermiculture	1	7	5	0	1	7	0	0	0	0	14	06	20
Mushroom Production													
Beekeeping	1	9	3	12	12	5	17	1	0	1	22	8	30

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
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition	2	0	24	24	0	16	16	0	0	0	0	40	40
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	10	6	16	4	0	4	0	0	0	14	6	20
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing	1	15	0	15	5	0	5	0	0	0	20	0	20
Others													
Total	**11**	**79**	**51**	**118**	**61**	**38**	**91**	**1**	**0**	**1**	**147**	**83**	**230**

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 crops													
Integrated Pest Management	2	40	4	44	5	1	6	0	0	0	42	8	50
Integrated Nutrient management													

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
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs	1	15	8	23	3	4	7	0	0	0	18	12	30
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 (Nutritional management of adolescent girls)	1	0	17	17	0	3	3	0	0	0	0	20	20
Mushroom spawn production technique	1	0	27	27	0	3	3	0	0	0	0	30	30
Climate resilient agriculture	2	29	20	49	8	3	11	0	0	0	37	23	60
Biofloc fish production technique	1	10	8	18	1	1	2	0	0	0	11	9	20
Fish health management	1	8	9	17	2	1	3				10	10	20
Other (FPO involvement)	1	17	0	17	13	0	13	0	0	0	30	0	30
Total	**10**	**119**	**93**	**212**	**32**	**16**	**48**	**0**	**0**	**0**	**148**	**112**	**260**

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	3	65	0	65	25	0	25	0	0	0	90	0	90
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													

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
Seed production													
Nursery management													
Integrated Crop Management	5	58	28	86	41	23	64	0	0	0	99	51	150
Soil & water conservation													
Integrated nutrient Management	2	8	32	40	6	14	20	0	0	0	14	46	60
Production of organic inputs	1	25	5	30	0	0	0	0	0	0	25	5	30
Others (natural farming)	1	14	11	25	3	2	5	0	0	0	17	13	30
Total	**12**	**170**	**76**	**246**	**75**	**39**	**114**	**0**	**0**	**0**	**245**	**115**	**360**
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops	1	25	0	25	5	0	5	0	0	0	30	0	30
Off0season vegetables	1	14	1	15	10	5	15	0	0	0	24	6	30
Nursery raising	3	25	27	52	22	16	38	0	0	0	47	43	90
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others	1	18	0	18	12	0	12	0	0	0	30	0	30
Total (a)	**6**	**82**	**28**	**110**	**49**	**21**	**70**	**0**	**0**	**0**	**131**	**49**	**180**
b) Fruits													
Training and Pruning													
Layout and Management of Orchards	1	12	0	12	15	3	18	0	0	0	27	3	30
Cultivation of Fruit													
Management of young plants/orchards	2	12	10	22	23	15	38	0	0	0	35	25	60
Rejuvenation of old orchards													
Export potential fruits	1	15	9	24	1	5	6	0	0	0	16	14	30
Micro irrigation systems of orchards	1	11	4	15	10	5	15	0	0	0	21	9	30
Plant propagation techniques	1	8	3	11	17	2	19	0	0	0	25	5	30
Others	1	3	11	14	1	15	16	0	0	0	4	26	30
Total (b)	**7**	**61**	**37**	**98**	**67**	**45**	**112**	**0**	**0**	**0**	**128**	**82**	**210**
c) Ornamental Plants													
Nursery Management													
Management of potted plants													

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
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others	1	12	10	22	3	5	8	0	0	0	15	15	30
Total (c)	**1**	**12**	**10**	**22**	**3**	**5**	**8**	**0**	**0**	**0**	**15**	**15**	**30**
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology	1	2	4	6	19	5	24	0	0	0	21	9	30
Processing and value addition													
Others													
Total (e)	**1**	**2**	**4**	**6**	**19**	**5**	**24**	**0**	**0**	**0**	**21**	**9**	**30**
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)	**15**	**157**	**79**	**236**	**138**	**76**	**214**	**0**	**0**	**0**	**295**	**155**	**450**
Soil fertility management	1	12	10	22	3	5	8	0	0	0	15	15	30
Integrated water management													
Integrated Nutrient Management	4	58	30	88	12	20	32	0	0	0	70	50	120
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops	1	13	9	21	4	4	8	0	0	0	17	13	30
Nutrient Use Efficiency													
Balance Use of fertilizer													

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
Soil & water testing													
others													
Total	**6**	**83**	**49**	**131**	**19**	**29**	**48**	**0**	**0**	**0**	**102**	**78**	**180**
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	1	0	21	21	0	9	9	0	0	0	0	30	30
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	3	0	65	65	0	25	65	0	0	0	0	90	90
Women empowerment													
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care													
Others	2	0	51	51	0	09	09	0	0	0	0	60	60
Seedling raising techniques	1	0	26	26	0	4	4	0	0	0	0	30	30
Production of livestock feed and fodder	3	0	80	10	0	10	10	0	0	0	0	90	90
Mushroom production	2	0	44	44	0	16	16	0	0	0	0	60	60
Total	**12**	**0**	**287**	**217**	**0**	**73**	**113**	**0**	**0**	**0**	**0**	**360**	**360**
VI. Agril. Engineering													

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
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	7	109	47	156	22	3	25	0	3	3	131	49	180
Integrated Disease Management	6	78	42	120	34	26	60	0	0	0	112	68	180
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total	**12**	**0**	**287**	**217**	**0**	**73**	**113**	**0**	**0**	**0**	**0**	**360**	**360**
VIII. Fisheries													
Integrated fish farming	1	15	11	26	4	-	4	-	-	-	19	11	30
Carp breeding and hatchery management													
Carp fry and fingerling rearing	1	21	6	27	3	-	3	-	-	-	24	6	30
Composite fish culture	6	88	65	153	21	6	27	-	-	-	109	71	180
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes	1	12	14	26	2	2	4	-	-	-	14	16	30
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Feeding management	2	28	24	52	6	2	8	-	-	-	34	26	60
Fish disease management	1	23	4	27	2	1	3	-	-	-	25	5	30
Others													
Total	**12**	**187**	**124**	**311**	**38**	**11**	**49**	**0**	**0**	**0**	**225**	**135**	**360**

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													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
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	**69**	**597**	**902**	**1358**	**270**	**301**	**651**	**0**	**0**	**0**	**867**	**1203**	**2070**

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													
Commercial fruit production													
Integrated farming													
Seed production													
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping													
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													
Fry and fingerling rearing													
Others													
Total													

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													
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	3	65	0	65	25	0	25	0	0	0	90	0	90
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management	5	58	28	86	41	23	64	0	0	0	99	51	150
Soil & water conservation													
Integrated nutrient Management	2	8	32	40	6	14	20	0	0	0	14	46	60
Production of organic inputs	1	25	5	30	0	0	0	0	0	0	25	5	30
Others (natural farming)	1	14	11	25	3	2	5	0	0	0	17	13	30
Total	**12**	**170**	**76**	**246**	**75**	**39**	**114**	**0**	**0**	**0**	**245**	**115**	**360**
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops	1	25	0	25	5	0	5	0	0	0	30	0	30
Off0season vegetables	1	14	1	15	10	5	15	0	0	0	24	6	30
Nursery raising	3	25	27	52	22	16	38	0	0	0	47	43	90
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others	1	18	0	18	12	0	12	0	0	0	30	0	30
Total (a)	**6**	**82**	**28**	**110**	**49**	**21**	**70**	**0**	**0**	**0**	**131**	**49**	**180**
b) Fruits													
Training and Pruning													
Layout and Management of Orchards	1	12	0	12	15	3	18	0	0	0	27	3	30
Cultivation of Fruit													
Management of young plants/orchards	2	12	10	22	23	15	38	0	0	0	35	25	60
Rejuvenation of old orchards													

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
Export potential fruits	1	15	9	24	1	5	6	0	0	0	16	14	30
Micro irrigation systems of orchards	1	11	4	15	10	5	15	0	0	0	21	9	30
Plant propagation techniques	1	8	3	11	17	2	19	0	0	0	25	5	30
Others	1	3	11	14	1	15	16	0	0	0	4	26	30
Total (b)	**7**	**61**	**37**	**98**	**67**	**45**	**112**	**0**	**0**	**0**	**128**	**82**	**210**
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others	1	12	10	22	3	5	8	0	0	0	15	15	30
Total (c)	**1**	**12**	**10**	**22**	**3**	**5**	**8**	**0**	**0**	**0**	**15**	**15**	**30**
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology	1	2	4	6	19	5	24	0	0	0	21	9	30
Processing and value addition													
Others													
Total (e)	**1**	**2**	**4**	**6**	**19**	**5**	**24**	**0**	**0**	**0**	**21**	**9**	**30**
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)	**15**	**157**	**79**	**236**	**138**	**76**	**214**	**0**	**0**	**0**	**295**	**155**	**450**

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
Soil fertility management	1	12	10	22	3	5	8	0	0	0	15	15	30
Integrated water management													
Integrated Nutrient Management	4	58	30	88	12	20	32	0	0	0	70	50	120
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops	1	13	9	21	4	4	8	0	0	0	17	13	30
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
others													
Total	**6**	**83**	**49**	**131**	**19**	**29**	**48**	**0**	**0**	**0**	**102**	**78**	**180**
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	1	0	21	21	0	9	9	0	0	0	0	30	30
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	3	0	65	65	0	25	65	0	0	0	0	90	90
Women empowerment													
Location specific drudgery reduction technologies													
Rural Crafts													

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
Women and child care													
Others	2	0	51	51	0	09	09	0	0	0	0	60	60
Seedling raising techniques	1	0	26	26	0	4	4	0	0	0	0	30	30
Production of livestock feed and fodder	3	0	80	10	0	10	10	0	0	0	0	90	90
Mushroom production	2	0	44	44	0	16	16	0	0	0	0	60	60
Total	**12**	**0**	**287**	**217**	**0**	**73**	**113**	**0**	**0**	**0**	**0**	**360**	**360**
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	7	109	47	156	22	3	25	0	3	3	131	49	180
Integrated Disease Management	6	78	42	120	34	26	60	0	0	0	112	68	180
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total	**13**	**187**	**89**	**276**	**56**	**29**	**85**	**0**	**3**	**3**	**243**	**117**	**360**
VIII. Fisheries													
Integrated fish farming	1	15	11	26	4	-	4	-	-	-	19	11	30
Carp breeding and hatchery management													
Carp fry and fingerling rearing	1	21	6	27	3	-	3	-	-	-	24	6	30
Composite fish culture	6	88	65	153	21	6	27	-	-	-	109	71	180
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes	1	12	14	26	2	2	4	-	-	-	14	16	30
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													
Feeding management	2	28	24	52	6	2	8	-	-	-	34	26	60
Fish disease management	1	23	4	27	2	1	3	-	-	-	25	5	30
Others													
Total	**12**	**187**	**124**	**311**	**38**	**11**	**49**	**0**	**0**	**0**	**225**	**135**	**360**
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
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													

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 Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	**69**	**597**	**902**	**1358**	**270**	**301**	**651**	**0**	**0**	**0**	**867**	**1203**	**2070**

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 crops													
Commercial fruit production													
Integrated farming													
Seed production	1	15	0	15	5	0	5	0	0	0	20	0	20
Production of organic inputs	2	10	8	18	16	6	22	0	0	0	26	14	40
Planting material production	2	13	5	18	18	4	22	0	0	0	31	9	40
Vermiculture	1	7	5	0	1	7	0	0	0	0	14	06	20
Mushroom Production													
Beekeeping	1	9	3	12	12	5	17	1	0	1	22	8	30
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition	2	0	24	24	0	16	16	0	0	0	0	40	40
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail 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
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries	1	10	6	16	4	0	4	0	0	0	14	6	20
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing	1	15	0	15	5	0	5	0	0	0	20	0	20
Others													
Total	**11**	**79**	**51**	**118**	**61**	**38**	**91**	**1**	**0**	**1**	**147**	**83**	**230**

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													
Integrated Pest Management	2	40	4	44	5	1	6	0	0	0	42	8	50
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs	1	15	8	23	3	4	7	0	0	0	18	12	30
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													

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 in farm animals													
Livestock feed and fodder production													
Household food security (Nutritional management of adolescent girls)	1	0	17	17	0	3	3	0	0	0	0	20	20
Mushroom spawn production technique	1	0	27	27	0	3	3	0	0	0	0	30	30
Climate resilient agriculture	2	29	20	49	8	3	11	0	0	0	37	23	60
Biofloc fish production technique	1	10	8	18	1	1	2	0	0	0	11	9	20
Fish health management	1	8	9	17	2	1	3				10	10	20
Other (FPO involvement)	1	17	0	17	13	0	13	0	0	0	30	0	30
Total	**10**	**119**	**93**	**212**	**32**	**16**	**48**	**0**	**0**	**0**	**148**	**112**	**260**

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	Integrated weed management in rice	1	Off	30	0	30	3	0	3
Agronomy	F&FW	Integrated weed management in Jute	1	Off	30	0	30	9	0	9
Agronomy	F&FW	Green manuring& its effect on soil health	1	Off	25	5	30	0	0	0
Agronomy	F&FW	Organic aromatic rice production	1	Off	17	13	30	3	2	5
Agronomy	F&FW	Improved retting technology of Jute	1	Off	23	7	30	4	3	7
Agronomy	F&FW	Crop residue management in Rice	1	Off	13	17	30	0	3	3
Agronomy	F&FW	Micronutrient Management in Pulses	1	Off	14	16	30	8	14	22
Agronomy	F&FW	Integrated nutrient management in sunflower	1	Off	4	26	30	0	0	0
Agronomy	F&FW	Best management practices for millets	1	Off	27	3	30	5	1	6
Agronomy	F&FW	Integrated Nutrient management in Groundnut	1	Off	10	20	30	4	16	20
Agronomy	F&FW	Integrated weed management in Groundnut	1	Off	30	0	30	16	0	16
Agronomy	F&FW	ICM in drill seeded greengram	1	Off	18	12	30	4	4	8
Agronomy	RY	Preparation of Natural farming Products	2	On	12	8	20	5	2	7
Agronomy	RY	Seed production in rice	2	On	20	0	20	5	0	5
Agronomy	IS	Climate resilient Agriculture	1	On	17	13	30	3	1	4
Agronomy	IS	Natural farming	1	On	23	7	30	11	2	13
Soil Science	F&FW	Soil test based Fertilizer application in jute	1	Off	23	7	30	7	10	17

Soil Science	F&FW	Methods & time of application of Zinc in Rice	1	Off	15	15	30	4	4	8
Soil Science	F&FW	Nutrient management in Rice	1	Off	27	3	30	2	2	2
Soil Science	F&FW	Nutrient management in Brinjal	1	Off	3	27	30	3	3	6
Soil Science	F&FW	Integrated nutrient management in Okra	1	Off	6	24	30	2	2	4
Soil Science	F&FW	Nutrient management in Bittergourd	1	Off	20	10	30	2	2	4
Soil Science	RY	Vermicompost & Vermiculture production	5	On	14	6	20	1	7	8
Horticulture	F&FW	Lay out, planning and establishment of orchard	1	Off	27	3	30	15	5	18
Horticulture	F&FW	Spine gourd cultivation techniques	1	Off	30	-	30	5		5
Horticulture	F&FW	Cultivation Techniques of Dragon fruit	1	Off	16	14	30	1	5	6
Horticulture	F&FW	Crop regulation practices in mango	1	Off	27	3	30	17	1	18
Horticulture	F&FW	High value flower cultivation techniques	1	Off	15	15	30	3	5	8
Horticulture	F&FW	Cultivation practice of water chestnut	1	Off	4	26	30	1	15	16
Horticulture	F&FW	Pond based integrated farming system with special emphasis to horticultural crops	1	Off	30	-	30	12		12
Horticulture	F&FW	Micro-irrigation in horticultural crops	1	Off	21	9	30	10	5	15
Horticulture	RY	Macro propagation Techniques of Banana	2	On	20	-	20	11	-	11
Horticulture	F&FW	Macro propagation in Banana	1	Off	25	5	30	17	2	19
Horticulture	F&FW	Canopy management in fruit crops	1	Off	9	21	30	6	14	20
Horticulture	F&FW	Techniques of grafting in brinjal	1	Off	10	20	30	17	7	21
Horticulture	F&FW	Seedling raising techniques in Vegetables	1	Off	22	8	30	5	1	6
Horticulture	F&FW	Scientific cultivation of summer tomato	1	Off	24	6	30	10	5	15
Horticulture	RY	QPM production in coconut & arecanut	2	on	11	9	20	11		11
Horticulture	F&FW	Low input intensive horticultural crops in backyard and commercial farming	1	Off	21	9	30	19	5	24
Horticulture	RY	Nursery raising techniques	2	on	18	2	20	11		13
Horticulture	F&FW	Seed production in water melon	1	Off	-	30	30	-	13	13
Horticulture	IS	FPO formation for marketing of water melon	1	on	30	-	30	13	-	13
Pl. protection	F&FW	Integrated management of sheath blight disease in paddy	1	Off	29	1	30	2	0	2
Pl. protection	F&FW	Integrated disease management in jute	1	Off	14	16	30	0	0	0
Pl. protection	F&FW	Management of wilt complex in brinjal	1	Off	21	9	30	2	2	4
Pl. protection	F&FW	IPM strategy for major insect pest management in paddy	1	Off	18	12	20	0	0	0
Pl. protection	F&FW	Integrated management of thrips and mite in chilli	1	Off	29	1	30	3	0	3

Pl. protection	F&FW	IDM in rice	1	Off	30	0	30	30	0	30
Pl. protection	F&FW	Integrated management of fruit fly in cucurbits	1	Off	12	18	30	1	3	4
Pl. protection	F&FW	IDM in banana	1	Off	18	12	30	0	0	0
Pl. protection	IS	Recent advances in IPM in Rice	1	On	17	3	20	1	0	1
Pl. protection	F&FW	Management of rugose spiraling whitefly in coconut	1	Off	30	0	30	3	0	3
Pl. protection	F&FW	Management of leaf miner in tomato	1	Off	23	7	30	13	2	15
Pl. protection	F&FW	YMV management in greengram and blackgram	1	Off	19	11	30	2	1	3
Pl. protection	F&FW	Management of collar rot disease in groundnut	1	Off	0	30	30	0	24	24
Pl. protection	IS	Use of new generation pesticides	1	On	25	5	30	4	1	5
Pl. protection	RY	Bio-intensive pest management in vegetable crops	2	On	14	6	20	11	4	15
Pl. protection	RY	Scientific bee keeping	2	On	22	8	30	13	5	18
Home Sc.	F&FW	Planning layout and management of Nutritional Garden	1	Off	-	30	30	-	9	9
Home Sc.	F&FW	Milky mushroom cultivation	1	Off	-	30	30	-	16	16
Home Sc.	F&FW	Cultivation of paddy straw mushroom using improved techniques	1	Off	-	30	30	-	-	-
Home Sc.	F&FW	Packaging methods for better shelf life of paddy straw mushroom	1	Off	-	30	30	-	6	6
Home Sc.	F&FW	Backyard Duck Rearing for livelihood support	1	Off	-	30	30	-	7	7
Home Sc.	F&FW	Fodder Cultivation by Women SHGs'	1	Off	-	30	30	-	30	30
Home Sc.	F&FW	Preparation of Poultry Feed for Higher Income	1	Off	-	30	30	-	6	6
Home Sc.	F&FW	Seedling raising Technique for Women SHGs'	1	Off	-	30	30	-	4	4
Home Sc.	F&FW	Azolla as supplementary feeding management of Poultry Birds	1	Off	-	30	30	-	5	5
Home Sc.	F&FW	Preparation of value-added products of Tomato	1	Off	-	30	30	-	21	21
Home Sc.	F&FW	Preparation of value-added products from coconut	1	Off	-	30	30	-	21	21
Home Sc.	F&FW	Preparation of value-added products from oyster mushroom	1	Off	-	30	30	-	9	9
Home Sc.	IS	Nutritional management of adolescent girls	1	On	-	20	20	-	4	4
Home Sc.	IS	Mushroom Spawn production techniques	1	On	5	25	30	-	4	4
Home Sc.	RY	Mushroom Production and its Value-addition	3	On	-	20	20	-	13	13
Home Sc.	RY	Value addition of millets	3	On	-	20	20	-	13	13
Fishery Sc.	F/FW	Pre-stocking pond management	1	Off	18	12	30	3	-	3
Fishery Sc.	F/FW	Stocking and post-stocking pond management	1	Off	22	8	30	2	-	2

Fishery Sc.	F/FW	Composite carp culture	1	Off	13	17	30	4	-	4
Fishery Sc.	F/FW	Feeding management for carp culture	1	Off	27	3	30	2	-	2
Fishery Sc.	F/FW	Short term culture of minor carps in seasonal ponds	1	Off	10	20	30	4	-	4
Fishery Sc.	F/FW	Multiple stocking and multiple harvesting method of pisciculture	1	Off	19	11	30	5	-	5
Fishery Sc.	F/FW	Production of fingerlings and yearlings	1	Off	24	6	30	3	-	3
Fishery Sc.	F/FW	Culture practices of Amur carp with IMC	1	Off	13	17	30	1	-	1
Fishery Sc.	F/FW	Fish disease and its management	1	Off	25	5	30	2	-	3
Fishery Sc.	F/FW	Techniques of fish feed preparation	1	Off	21	9	30	3	-	3
Fishery Sc.	F/FW	Ornamental fish culture	1	Off	14	16	30	2	2	4
Fishery Sc.	F/FW	Biofloc fish production technique	1	Off	19	11	30	4	-	4
Fishery Sc.	RY	Ornamental fish breeding and culture	3	On	14	6	20	4	-	4
Fishery Sc.	RY	Fish seed production technique	3	On	20	-	20	5	-	5
Fishery Sc.	IS	Biofloc fish production technique	1	On	11	9	20	1	1	2
Fishery Sc.	IS	Fish health management	1	On	10	10	20	2	1	3

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	
Vermicompost and vermiculture production	INM	Vermicompost and vermiculture production	5	14	06	20	Self employed	5	5	

*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	1	7	6	13	4	3	7	0	0	0	11	9	20
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, para-vet training													
Other													
Total	**1**	**7**	**6**	**13**	**4**	**3**	**7**	**0**	**0**	**0**	**11**	**9**	**20**
Agricultural Extension													
Capacity building and group dynamics													
Other													
Total													
Grand Total	**1**	**7**	**6**	**13**	**4**	**3**	**7**	**0**	**0**	**0**	**11**	**9**	**20**

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	GKMS	Climate smart	March 2024	01	PF	01	100	GKMS
2	IFFCO	Nutrient management	July 2023	01	PF	01	40	IFFCO
3	Vermi-ARD	Organic farming	January2023	01	PF	01	20	ARD
4	Millet	Value addition	March 2024	01	PF	01	20	District Agriculture Dept

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	01	0	18	18	2	02	02	0	0	0	0	20	20
Fruit Plants													
Ornamental plants													
Spices crops													
Soil health and fertility management	01	26	9	35	3	2	5	0	0	0	29	11	40
Production of Inputs at site	01	11	7	18	2	0	2	0	0	0	13	7	20
Methods of protective cultivation													

Other	01	45	30	75	13	12	25	0	0	0	58	42	100
Total	**4**	**82**	**64**	**146**	**20**	**16**	**34**	**0**	**0**	**0**	**100**	**80**	**180**
Post harvest technology and value addition													
Processing and value addition													
Other													
Total													
Farm machinery													
Farm machinery, tools and implements													
Other													
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**	**82**	**64**	**146**	**20**	**16**	**34**	**0**	**0**	**0**	**100**	**80**	**180**

Good quality photographs of training activity:

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	21	876	174	1050	21	26	31	57	902	205	1107
Kisan Mela	6	1236	485	1721	32	42	29	71	1278	514	1792
Kisan Ghosthi	15	176	96	272	23	0	0	0	176	96	272
Exhibition	8	3261	1462	4723	34	96	64	160	3357	1526	4883
Film Show	32	426	169	595	45%	12	4	16	438	173	611
Method Demonstrations	82	721	268	989	40%	21	26	47	742	294	1036
Farmers Seminar	4	142	63	205	25	12	6	18	154	69	223
Workshop	6	169	79	248	32	16	18	34	185	97	282
Group meetings	76	436	367	803	60%	0	0	0	436	367	803
Lectures delivered as resource persons	36	1325	639	1964	36%	126	169	295	1451	808	2259
Advisory Services	60	102631	38645	141276	48	2456	1520	3976	105087	40165	145252
Scientific visit to farmers field	126	586	347	933	26	39	34	73	625	381	1006
Farmers visit to KVK	14365	11426	2939	14365	24	0	0	0	11426	2939	14365
Diagnostic visits	53	480	30	510	30	17	1	18	497	31	528
Exposure visits	7	165	69	234	40	0	0	0	165	69	234
Ex-trainees Sammelan	4	123	37	160	26	0	0	0	123	37	160
Soil health Camp	4	95	105	200	20	5	6	11	100	111	211
Animal Health Camp	2	23	37	60	25	0	0	0	23	37	60
Agri mobile clinic	3	26	14	40	40%	4	1	5	30	15	45
Soil test campaigns	2	45	55	100	25	4	5	9	49	60	109
Farm Science Club Conveners meet	1	21	6	27	24	0	0	0	21	6	27
Self Help Group Conveners meetings	6	0	60	60	27	0	0	0	0	60	60
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0	0
Celebration of important days (specify)	8	189	234	423	56	8	6	14	197	240	437
Sankalp Se Siddhi	0	0	0	0	0	0	0	0	0	0	0
Swachhata Hi Sewa	16	368	146	514	27	12	11	23	380	157	537
Mahila Kisan Divas	1	0	50	50	32	2	1	3	2	51	53
Any Other (Specify)	6	275	124	399	47	42	26	68	317	150	467
Total	**14950**	**125221**	**46700**	**171921**	**646.21**	**2940**	**1958**	**4898**	**128161**	**48658**	**176819**

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	37
Radio talks	13
TV talks	1
Popular articles	4
Extension Literature	6
Other, if any	

Good quality photographs of Extension activity:

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	Kalachampa	220(Unprocessed)	-								
Greengram	Virat	Crop is at maturity stage									

Good quality photographs of seed production:

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	NS-555	5600	5600	50	21			100	35	150	56
Cabbage	NS-22	5600	5600	45	37			78	41	123	78
Tomato	Utkal Kumari/ Raja/ Pragyan/ Surakhya, NS-2535	14500	29000	67	59			104	37	171	96
Brinjal	Utkal Keshari	12000	12000	80	55			110	72	190	127
Chilli	NS1701 DG	5300	5300	30	17			45	31	75	48
Onion	Sandip Pyaz	10000	2500	18	10			37	21	55	31
Others	-	5700	11400	256	132			400	203	656	335
Fruits											
Mango											
Guava		100	---	15	9			7	11	22	20
Lime											
Papaya		1600	--	40	37			78	41	118	78
Banana		200	--	7	8			15	2	22	10
Others		18,900	--	500							

Ornamental plants											
Medicinal and Aromatic		200	--	5	3			12	8	17	11
Plantation		2000	--								
Spices											
Turmeric											
Tuber											
Elephant yams											
Fodder crop saplings	CO5	5500	5500	2	0	0	0	25	3	27	3
Forest Species											
Others, pl. specify											
Total		**87200**	**76900**	**1115**	**388**	**0**	**0**	**1011**	**505**	**1626**	**893**

Good quality photographs of planting materials:

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	2565	28430	3	2	0	0	50	45	53	47
Bio-pesticide										
Bio-fungicide										
Bio-agents										
Others, please specify										
Total	2565	28430	3	2	0	0	50	45	53	47

Good quality photographs of bio-products:

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		02	1000	02	0	0	0	0	0	02	0
Goat		0	0	0	0	0	0	0	0	0	0
Other, please specify											
Poultry											
Broilers											
Layers											
Duals (broiler and layer)	Kaveri, Rainbow rooster, FFG Kuroiler	1000	63,500	9	13			17	8	26	21
Japanese Quail											
Turkey											
Emu											

Ducks	Khaki Campbell, White pekin	300	20,000	6	4	-	-	4	2	10	6
Others (Pl. specify)											
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings	GI Catla, Rohu, Mrigal	45,000	68,000	10	2	-	-	23	3	33	5
Others (Mushroom Spawn)	PSM, Oyster	2261	36176	47	32	0	0	137	54	184	86
Grand Total		**48563**	**188676**	**74**	**51**	**0**	**0**	**181**	**67**	**255**	**118**

Good quality photographs of livestock and fisheries:

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 2023						
Rabi 2023-24						
Summer/Spring 2024						
Kharif 2023						
Rabi 2023-2024						

iii) Financial Progress

Fund received (2020-21, 2021-22, 2022-23 and 2023-24)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2020-21				
2021-22				
2022-23				
2023-24				

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	Effects of sunflower residue management options on productivity and profitability of succeeding rice under different crop establishment methods (Field Crops Research 290 (2023) 108763 : 1-11) (NAAS: 12.15)	Tapas Ranjan Sahoo, Biswaranjan Behera, Rabindra Kumar Paikaray, Lalita Mohan Garnayak, Debadatta Sethi, Satyananda Jena, Md Basit Raza, Rabindra Kumar Panda, Baiquan Song, Milan Kumar Lal, Awadhesh Kumar		
	Crop establishment and diversification strategies for intensification of rice-based cropping systems in rice-fallow areas in Odisha (Field Crops Research, vol.302, pp.1-11, 2023)	Panneerselvam Peramaiyan, Amit Kumar Srivastava, Virender Kumar, Lavanya P. Seelan, Narayan Chandra Banik, Suryakanta Khandai, Nabakishore Parida, Vivek Kumar, Aurovinda Das, Sanghamitra Pattnaik, Dilip Ranjan Sarangi, Pavan Kumar Yeggina, Ashok Yadav, Andrew J. McDonald, Peter Craufurd, Sudhanshu Singh, Ram K. Malik		
Seminar/conference/ symposia papers				
Books	Cost of cultivation of Major crops in Odisha (Published by Agricultural Technology Information Centre, Directorate of Extension Education, OUAT, Bhubaneswar)	S K Swain, T R Sahoo, P Pati, N Panigrahi, S P Sangram Singh, Edited by P J Mishra and S K Swain		

	Showcasing the success: KVKs at the services of Farmers (Published by Directorate of Extension Education, OUAT, Bhubaneswar)	Amaresh Khuntia, Hemanta Kumar Sahoo, Sontosh Kumar Samantaray, Sarthak Pattanaik and Tapas Ranjan Sahoo		
Bulletins				
News letter	The Tulasi	Dr. Aurovinda Das, SS&H	500	Mass
Popular Articles	Krishi Jagaran	Dr. Aurovinda Das, SS&H	02	Mass
Book Chapter	Bioconversion of organic wastes into wealth by vermi-technology: a review (In book of Recent trends in solid waste management. Published by Wood house publishing, Advances in Pollution research Elsevier, Chapter 2 page no 27-53)	Debadatta Sethi, Konathala Kusumavathi, Balasubramani Ravindran, Narayan Panda, Kshitipati Padhan, Subhaprada Dash, Tapas Ranjan Sahoo, Satyabrata Mangaraj, Arabinda Dhal, Susanta Kumar Swain, Smritikana Sarkar, Sushanata Kumar Pattanayak, and Andi Febrisiantosa		
Extension Pamphlets/ literature	Leaflet on "Natural faming"	Tapas Ranjan Sahoo, Aurovinda Das	2000	Mass
	Leaflet on "*Parbartita jalabayu re apple berchasa*"	Pravanjan Mishra	1000	Mass
	Leaflet on "*Jaanla utpadana O narsary pokhari parichalana*"	Manas Ranjan Behera, Aurovinda Das	1000	Mass
	Booklet on *"Upakulabarti jalabayu re pusti sashya chasa"*	Tapas Ranjan Sahoo, Aurovinda Das, Gayatree Sahoo	500	Mass
Technical reports	185	KVK Kendrapara	185	-
Electronic Publication (CD/DVD etc.)	Video on Natural farming	KVK Kendrapara	-	mass
TOTAL				

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	Zonal Workshop	Zonal Workshop of KVK	Dr. Aurovinda Das, SS&H	7-9 June 2023	ICAR-ATARI, Kolkata
2	Zonal Workshop	Zonal Workshop of NICRA	Dr. Aurovinda Das	2-4 May 2023	NICRA-TDC
3	Training programme	Natural farming for Sustainable agriculture	Dr Tapas Ranjan Sahoo, SMS, Agronomy	10 days Dec 20-29	SKUAST Kashmir
4	Training programme	Master Trainers on Natural farming	Dr Tapas Ranjan Sahoo, SMS, Agronomy	5 days 18-22 March	EEI, Anand, Gujurat
5	Training programme	Online collaborative training programme on Natural farming	Dr Tapas Ranjan Sahoo, SMS, Agronomy	5 days 22-26 August 2023	Manage Hyderabad
6	Workshop	Zonal workshop	Dr Tapas Ranjan Sahoo, SMS, Agronomy	2 days 16-17 Feb 2024	Rathindra KVK, Sriniketan, Visva Bharati, West Bengal
7	Workshop	Review workshop Resilience	Dr Tapas Ranjan Sahoo, SMS, Agronomy	2 days 28-29 Feb 2024	Manage Hyderabad
8	Workshop	State level Workshop on usage of Nanourea	Dr Tapas Ranjan Sahoo, SMS, Agronomy	22.6.2023	OUAT, Bhubaneswar
9	Conclave	Agri journalism conclave	Dr Tapas Ranjan Sahoo, SMS, Agronomy	11 Dec 2023	OUAT Bhubaneswar
10	Workshop	Enhancing irrigation uses	Dr Tapas Ranjan Sahoo, SMS, Agronomy	17.8.2023	Krushi Bhawan, Bhubaneswar
11	Conclave	Industry Academia conclave	Dr Tapas Ranjan Sahoo, SMS, Agronomy	1.7.2023	OUAT, Bhubaneswar
12	International Conference	Ethnomedicine in One health	Dr. P MIshra, Scientist (Hort)	20.04.2023 to 21.04.2023 (02 days)	OUAT, Indian Proctology Society and Utkalika Samiti Odisha
13	Refresher training	Refresher training for Horticulture.	Dr. P MIshra, Scientist (Hort)	2(6-7 March 2024)	DEE, OUAT, Bhubaneswar

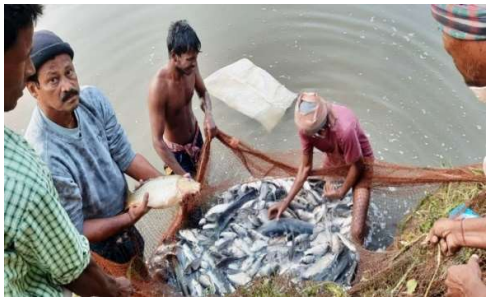
Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
14	Exposure Visit cum training	Exposure Visit cum training on Horticulture to IGKV Raipur	Dr. P MIshra, Scientist (Hort)	22-23 March 2024	IGKV Raipur (organized by DEE OUAT)
15	International Conference	Ethnomedicine in One health	Dr. Gayatree Sahoo, Scientist (PP)	20.04.2023 to 21.04.2023 (02 days)	OUAT, Indian Proctology Society and Utkalika Samiti Odisha
16	Training programme	Advance technologies in Apiculture	Dr. Gayatree Sahoo, Scientist (PP)	26.07.2023 to 27.07.2023 (02 days)	DEE, OUAT, Bhubaneswar
17	State level awareness programme	Comb honey production technology in *Apis cerena indica*	Dr. Gayatree Sahoo, Scientist (PP)	02.12.2023 (01 day)	ICAR-EES and AICRP on honeybee and pollinators, OUAT
18	National workshop	Navigating climate chane and livelihood development and farm women in India	Dr. Gayatree Sahoo, Scientist (PP)	04.12.2023 (01 day)	ICAR-NRRI, Cuttack
19	Training programme	Advanced technology in mushroom production	Mrs. Namita Mahapatra, Scientist (Home Science)	10.07.2023 to 11.07.2023 (2 days)	CTMRT, OUAT, Bhubaneswar
20	Trainers' training programme	On promotion of Agri-entrepreneurship among rural women	Mrs. Namita Mahapatra, Scientist (Home Science)	27.03.2024 to 28.03.2024 (2 days)	College of Community Science and DEE, OUAT, Bhubaneswar
21	Refresher training	Sustainable aquaculture	Manas Ranjan Behera, SMS (Fishery Science)	27.03.2024-28.03.2024	DEE, OUAT
22	Refresher training	Big data analysis	Prasant Kumar Sahoo, Prog. Asst. (Comp.)	16.02.2024 – 17.02.2024	DEE, OUAT
23	Refresher training	Refresher training for Agronomy & Soil Sc.	Pravat Kumar Sahoo, Prog. Asst. (Agril)	2(12-13 Feb 2024)	DEE, OUAT, Bhubaneswar
24	Refresher training	Refresher training for Agronomy & Soil Sc.	Bipra Charan Swain, FM	2(12-13 Feb 2024)	DEE, OUAT, Bhubaneswar

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	Smt.Niroj Nalini Samal
Address	Kharidasahi, Chandol
Contact details (Phone, mobile, email Id)	Mobile - 9583344559
Landholding (in ha.)	1 acre
Name and description of the farm/ enterprise	Value added products from millets
Economic impact	Opening of a millet stall, opening of another miscellaneous sale centre
Social impact	Imparting training to women groups as trainer
Environmental impact	Helping people getting nutritious millet products
Horizontal/ Vertical spread	Other ladies are inspired to start such ventures
Good quality photographs (2-3)	

Success story 1**: Introduction of Amur carp for profitable pisciculture**

1. **Name of the Farmer/Entrepreneur**: **Prasanta Kumar Das**
2. **Address (At/Po/Block/Dist/PIN)**: Ghigidia, Baro, Kendrapara - 754250
3. **Contact no**: +91-8917607167
4. **Brief background**: (Educational qualification/Social status) Prasanta Kumar Das is 54 years old farmer with matriculation. He is having 6 Ac land area
5. **Details of Enterprise/ Farming components**
   The different farming components are rice (3 acres), pisciculture (2 acres), vegetables (1 acre) and two numbers of cows. The pisciculture tanks were prepared by proper liming and fertilization before stocking of yearlings. Yearlings of Catla, Rohu and Amur carp was stocked at a ratio of 3:4:3 and @ 5000 nos/Ha. Mrigal was completely replaced by Amur carp having higher growth rate. Floating fish feed was applied @ 2-1% of body weight twice daily. pH and alkalinity of pond water was tested in each month and accordingly liming and fertilizer application was done. The average weight of Amur carp was 1.1 kg during final harvest with a total production of 39.5q/ha fish.



6. **Economic/Production Advantage**: Increase in production of 8.5 q/ha over control was found. The net profit was 1,82,000 per year from pisciculture and Rs 94,000 from other components
7. **Employment generation**: 140 man-days/year
8. **Contributing Factors for the success:** Technical guidance from KVK such as scientific pond management practice and complete replacement of Mrigal with Amur carp, intercropping with Java Punti enriched his knowledge
9. **Importance for other Farmers**: He is the key trainer in pisciculture for other nearby farmers
10. **Award/Recognition if any**: Nil

Success story 2 : **Harnessing higher profit from pond based IFS**

1. **Name of the Farmer/Entrepreneur**: Kallolakanta Bala
2. **Address (At/Po/Block/Dist/PIN)**: Ostia, Taras, Baghabuda, Rajkanika, 754220
3. **Contact no**: +91-9938240538
4. **Brief background: (Educational qualification/Social status)**

He is 35 year old Farmer and Educational qualification is Garduation. He is having 4 acres of land which is utilized for development of 2acre pond based IFS model.

5. **Details of Enterprise/Farming components**

The pond based IFS model is developed in an area of 2 acre in which Fishery in one acre pond, crop production in 3 acre of land including rice in Kharif season, Pulse and Vegetables in Rabi season,200 bird capacity poultry units are important. He is using the pond dyke for cultivation of climber type vegetables. He possesses a blackgram badi preparation machine which add extra income to the basket.

6. **Economic/ Production Advantage**: There is 45% increase in the production level of the farm by adopting scientific methods with consultation with KVK and realizing a annual net Income of 3,15,000 from 4 acre land.
7. **Employment generation**: 285 man days per annum.
8. **Contributing Factors for the success**: Cultivation of high yielding crop varieties following improved package of practices and scientific pond management in pisciculture.
9. **Importance for other Farmers**: This farm acts as a model farm for the farmers of the locality.
10. **Award/Recognition if any**: NA

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			

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	Vegetables	Application of Handikhata and Jeevamrit	For nutrient management and to reduce pest load
2.	Brinjal	Application of Ash	Ash is sprinkled over the brinjal crop foliage to manage Epilachna beetle

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1	Rice	32 ha	936q	65	Y
2	Vegetable	28 ha	5850q	110	Y
3	Vermicomposting	22 Nos.	60 t	22	Y

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
01	Farmers' feedback register	To compile the issues of farmers and the problem intensity
2	Monthly Research Extension Interface	To record real time issues in agriculture and allied sectors

3.11.a. Details of equipment available in Soil and Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
1.	Mridaparikshak	1 No.

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			
252	0	252	760	15	-

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	50	1	Zilla parishad President	50	50

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) Yes

No of student trained	No of days stayed
2	56

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
07.08.23	Moumita Sahoo	To attend farmers training program on Guava
18.11.23	Dr. Gobinda Acharya, Principal scientist, CHESS Dr. Srikanta Lenka, Principal scientist, NRRI	KVK Visit
27.12.23	Dr. Muthu Kumar, IAS, Executive Director, Tea board and former Director of Agriculture, Govt of Odisha	Visit as district central Prabhari for VBSY
15.12.23	Dr. P. K. Mohanty, JD, DEE, OUAT, Bhubaneswar	SAC meeting

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)**
Seed production in rice	30	25	25000/ha	45000/ha
Cultivation flood tolerant rice varieties	60	30	18000/ha	35000/ha
Chemical weed management in DSR	30	20	Rs 25000/ha	Rs 32000/ha
IPM module for sucking pest management in chilli	40	35	Rs 65000/ha	Rs 90000/ha
Value addition in Mushroom	50	15	Rs 600/10 kg	Rs 1520/10 kg
Intercropping of minor carps IMC	30	20	Rs 140000/ha	Rs 190000/ha

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
Cultivation of flood tolerant rice variety CR 1009 sub 1	250 ha
Cultivation of Tripple disease resistant variety of Tamato Arka Abhed	40 ha
Cultivation of Dhanicha for green manuring in rice	150 ha
Cultivation of Paddy straw Mushroom	350 nos
Intercropping of Java Punti With IMC	130 ha
Vermicomposting	144 no of enterprise

Give information in the same format as given below

4.2. 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
1	Chemical weed management in DSR	Proper management of weeds with reduction of cost of cultivation for realization of higher profit.	Application of both pre and post emergence herbicide in sequence controls the major weeds in efficient manner. This resulted in 23% higher yield in rice with 17% increase in net profit.

4.4. Details of innovations recorded by the KVK

Thematic area	Water conservation
Name of the Innovation	Ground water recharge pit
Details of Innovator	Rabindra Lenka, Village: Gajapitha Taluk/Mandal: Marshaghai
Back ground of innovation	The Bhaguni, a subsidiary river of the Chitroptala, passes through the village Gajapitha, becomes completely dry during summer. There is absolutely no irrigation source other than this river as boring for tube well is restricted in the region. Looking at this serious issue, the innovative idea of digging a recharge pit on river bed triggered the mid of Sri Lenka. He discussed about this idea with KVK scientists who supported and guided him to realise his dream. He engaged JCB machine to dig the pit. He successfully cultivated vegetable crops during summer and earned good profit. Other farmers are encouraged and inspired to adopt this practice
Technology details	River dries out during summer bringing down the depth of water table. Water is not available for practicing cultivation of any crop. Sri Rabindra Lenka dug out a pit of dimension (LxBxH) 10 ft x 8ft x 12ft in the river bed. This pit becomes a pond filled with water collected from lateral seepage flow. Water is lifted by using a pump and used for cultivation of vegetable crops. The water level in the pit goes down with continuous lifting, however, the pit gets recharged after few hours with seepage of water.
Practical utility of innovation	The recharge pit provided irrigation including life saving irrigation to cultivate crops during dry seasons. The pit naturally recharged after lifting of water for irrigation with no additional cost. Due to the availability of irrigation during summer the summer fallow area could be utilised for cultivation summer vegetables like cucurbitaceous crops. With a single pit he has converted 3 acres fallow land to vegetable cropping. An additional profit of Rs.2,00,000 Per season is earned due to this innovation.

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	**Mushroom Spawn Production**
Name & complete address of the entrepreneur	Sasmita Rout At/Po-Malikeswarpur, Chandol, Kendrapara,
Role of KVK with quantitative data support:	She was given training on mushroom and spawn production technology at KVK Kendrapara. He is always in regular touch with KVK scientist for technical guidance regarding spawn production. KVK Kendrapara facilitates availability of quality mother spawn culture for him from OUAT. He is also practicing off season paddy straw mushroom cultivation after getting technical guidance from KVK, Kendrapara.

Timeline of the entrepreneurship development	2022-23 -1st year 2023-24 -2nd year
Technical Components of the Enterprise	Mushroom spawn production with Autoclave, Laminar air flow etc.
Status of entrepreneur before and after the enterprise	He owns, Motor cycle, TV, Refrigerator, Pucca house and provides employment to 3 persons round the year.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	300 spawn bottle production capacity with annual 60000 Nos of spawn production.
Horizontal spread of enterprise	2 other farmers started producing mushroom spawn.

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	**Nature of linkage**
ICAR-ATARI, Kolkata	As a funding source, HRD of Scientists
OUAT, Bhubaneswar	Holistic approach and development as Host Institute, procurement of paddy seeds, planting materials, Tricho cards, poultry, mushroom mother spawn, etc.
JRS, Jajanga	Research Extension Linkage, regional programmes, preparation of different agricultural and allied strategies for development, technology transfer, participation in zonal meeting
NINFET, Kolkata	Training programme
CIFA, Bhubaneswar	Procurement of IMC spawn & fry
CHES, Bhubaneswar	Procurement of Inputs, Training programmes, participation in SAC Meeting, Exposure visit, Organization of a field day on Mango sooty blotch treatment during post-harvest period to get quality fruits
ICAR- MANAGE, Hyderabad	Participation in training programmes
NABARD	Contribution for Establishment of farmers clubs, Contribution for Pilot project on technology transfer, Marketing credit counseling
District Administration	District technical committee meeting, all technical activities pertaining to farmers
D.R.D.A, Kendrapara	District development discussion, collaborative programme, involvement of KVK beneficiaries for NREGS, organizing training for watershed management, rural youth and agro-entrepreneurs, construction assistance
DSWO, Kendrapara	In-service training programme for AWWs & Extension Functionaries on Supplementary diet for pregnant, Lactating Mother and children from location specific food, Calorie & Protein value estimated for additional SNP for severely underweight children in the district, Method, capacity building training to SHGs under Mission Shakti for poultry farming & Goat farming, celebration of International Women Day
OLM	Training programme
Dept. Mission Shakti	Rural youth training, celebration of women in agriculture day

Name of organization	**Nature of linkage**
OSSC, Bhubaneswar	Procurement of seeds for demonstration, Sale of foundation seed of paddy
District Agriculture Dept., ATMA, NFSM	Assessment and validation Programme, cluster demonstration, BPH infested field visit with line dept. field functionaries, World Soil Day, Strategy & RE meeting
State Horticultural Deptt.	Convergence programme, training on programmes, verification of Nursery, associated with NHB
State Veterinary Deptt.	Small animal development programme, vaccination and deworming, AI Scheme, verification of schemes along with bank linkage & Animal Health Camps
State Fishery Dept.	Distribution of IMC fingerlings, Verification of Schemes
Watershed, Kendrapara	RAD programme, QPM for cashew improvement, Supply of seedlings & saplings
AICRP on palm	Training programme
AICRP on Tropical Mushroom	Training programme
CMC, Cuttack	Training programme
Forestry Department	Plantation programme
RING KVK (Jagatsinghpur, Jajpur)	Planning and implementation of programmes for agroclimatic journal, Sharing of Resource person
NGOs	Acceleration of activities of SHGs and rural youth clubs, Capacity building of NGO functionaries through various interventions

5.2. List of special programmes undertaken during 2023by 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.)
MIDH	FLD under MIDH(NHM) Establishment of small fruit plant nursery along with mother plant progeny nursery	08.08.23	State Horticulture dept.	2500000.00
CoE on FPO	Capacity building of FPO members	16.03.24	State Govt.	79676

(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.)
Out scaling of natural farming through KVKs	Promotion of natural farming	April 2023	ICAR	550000.00

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/breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Vermicompost	2011	03		Vermicompost	25.65 Q	11000	28430	
2.					vermin	245 kg	0	12250	
3.	Azolla	2018			Azolla	25	0	1250	
4.	Apiary	2017	08 nos	*Apis cerena indica*	Honey	4 kg	500	2800	
5.					Bee colony	01 no.		1000	
6	Mushroom spawn	2011		Paddy straw mushroom, oyster mushroom	Mushroom spawn	2261	24145	36176	
7	Mushroom	2011		Paddy straw mushroom, oyster mushroom	Mushroom	467	22066	36380	
8	Poultry	2013	30	Kaveri, FFG, Rainbow roaster	Chicks	1200	37000	66000	
9	Duckery	2013	16	Khaki campbell, white pekin	Duckling	300	11000	20000	
10	Fish seed production pond	2018	2000	Indian major carp	Fingerling, yearling	40000	37500	68500	
11	Fodder unit	2019	50	CO-5 hybrid	Fodder cultivation	10000	1000	5000	
12	Medicinal garden	2018	350	Medicinal plants	Sapling	5000	5000	1000	
13	Dragon fruit	2018	80	Red and white pulp	QPM	4000	35000	25000	
14	Shade net unit	2009	300	Vegetable seedling and fruit QPM	QPM	61000	28000	39000	
15	Water chest nut unit	2019	100	Balasore red	QPM	400	10000	6000	
	Total						222211	348786	

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	14.7.2023	28.12.2023	4.5	Kalachampa	Seed	220	2,30,000	6,60,000	Foundation Seed production
Greengram	12.2.2024	9.4.2023	1	Virat	Seed	3.7	17,500	32,000	TL Seed production

6.3. 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	2,565	14520	28,430	
2	Vermiculture	24.5	0	12,250	
3	Azolla	25	0	1,250	

6.4. 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.	Poultry	Kaveri, Rainbow rooster, FFG	Chicks	1200	37000	66000	
2.	Duck	Khaki campbell, White pekin	Duckling	300	11000	20000	
3.	Fish	IMC	Fingerling & Yearling	40000	37000	68500	

6.5. Utilization of hostel facilities: Repair work continues

Accommodation available (No. of beds): 20

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

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes
No. of staff quarters: 6
Date of completion:

Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI
January to December 2023	✓	✓	✓	✓	✓	✓

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	**Name of the bank**	**Location**	**Account Number**
KVK Contingency	SBI, Kendrapara	Kendrapara	11387961417
CFLD- Pulse	SBI, Kendrapara	Kendrapara	42274177326
CFLD- Oil seed	SBI, Kendrapara	Kendrapara	41561918958
Natural Farming	SBI, Kendrapara	Kendrapara	41998498899
Skill Development	SBI, Kendrapara	Kendrapara	42170372006
Revolving Fund	SBI, Kendrapara	Kendrapara	30878179008
ATMA	SBI, Kendrapara	Kendrapara	32421924619

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

Item	Released by ICAR		Expenditure		Unspent balance as on -
	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 2013
	Kharif	Rabi	Kharif	Rabi	

7.4. Utilization of KVK funds during the year 2023-24 (Not audited)

Sl.No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	1,30,32,000	1,27,73,635	1,27,73,635
2	Traveling allowances	1,50,000	1,50,000	1,50,000
3	HRD	30,000	30,000	30,000
4	Contingencies			
A	R. Contingency	10,00,000	9,99,000	9,99,000
B	SCSP	15,00,000	15,00,000	15,00,000
C	Library	10,000	10,000	10,000
D	Swachhta Expenditure	34,000	32,800	32,800
TOTAL (A)		1,57,56,000	1,54,95,435	1,54,95,435

B. Non-Recurring Contingencies				
1	Furniture & Equipment	1,80,000	1,80,000	1,80,000
TOTAL (B)		1,80,000	1,80,000	1,80,000
C. REVOLVING FUND		-	-	-
GRAND TOTAL (A+B+C)		1,59,36,000	1,56,75,435	1,56,75,435

7.5. Status of revolving fund (Rs. in lakh) for last five 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	2,33,328	6,62,292	7,75,579	Cash-1,20,041
2020-21	1,20,041	6,49,953	5,20,061	Cash: 2,49,933 Kind: 4,26,356
2021-22	2,49,933	8,16,887	7,38,186	Cash: 3,28,634 Kind: 14,880
2022-23	3,28,634	5,16,198	6,54,833	Cash: 1,89,999 Kind: 7,90,000
2023-24	1,89,999	11,44,240	7,42,112	Cash.5,92,127

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

Name of activity	Number of activities	Season	With line department	With ATMA	With both
Diagnostic field visit	15	Kharif	Agriculture		
Verification of QPM	3	Kharif, Rabi	Horticulture		
Training programme	7	Kharif, Rabi	Agriculture, Horticulture Fishery, ARD	Yes	
Special day celebration	4	Kharif, Rabi	Agriculture		Yes

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)
Sheath blight	paddy	Sept 2023	810	45	15000
Blast	Paddy	Oct 2023	500	30	14000
Collar rot	Ground nut	Jan- Feb 2024	680	40	5000
YMV	Greengram & Black gram	March- April 2024	10000	60	35000

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)
FMD	Cattle animal	Aug 3rd week	12	120	
Lumpy Skin disease	Cattle animal	Jun 2023	5	450	
Argulosis	IMC	Nov 2nd week	30	-	12

9.1. Nehru Yuva Kendra (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/ SMS Portal)

Type of message	No. of messages	No. of farmers covered
Crop	39	50,54,525
Livestock	02	02,16,562
Fishery	14	08,99,486
Weather	09	11,14,760
Marketing	01	01,01,046
Awareness	13	16,52,589
Training information	-	-
Other	03	03,53,250
Total	**81**	**93,92,218**

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	72,617
2.	No. of farmers registered in the portal	11,128
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
30 days	Swachhata campaign

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office		
2. Basic maintenance	2	2500
3. Sanitation and SBM		
4. Cleaning and beautification of surrounding areas	5	2000
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	10	19,000
6. Used water for agriculture/ horticulture application		
7. Swachhta Awareness at local level	3	1200
8. Swachhta Workshops	2	80
9. Swachhta Pledge	1	20
10. Display and Banner	1	
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)	2	
14. No of Staff members involved in the activities	12	
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total	**38**	**24,850**

9.6. Observation of National Science Day

Date of Observation	Activities undertaken
-	-

9.7. Programme with Seema Suraksha Bal/ 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
Jajanga UP School	12.8.2023 16.11.2023	Nutritional security Agriculture waste management Soil health	Audio visual aids Posters Power points

Give good quality 1-2 photograph(s)

9.9. Details of '*Pre-Rabi Campaign*' / '*Pre-Kharif Campaign*' Programme

Date of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Loksabha/ Rajyasabha) participated	No. of State Govt. Ministers	Participants (No.)							Coverage by Doordarshan (Yes/ No)	Coverage by other channels (Number)
				MLAs Attended the programme	Chairman Zila Panchayat	Distt. Collector/ DM	Bank Officials	Farmers	Govt. Officials, PRI members etc.	Total		
-	-	-	-	-	-	-	-	-	-	-	-	-

Please provide good quality photographs:

9.10. Details of Swachhta Hi Suraksha/ Swachhta Pakhwada programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1.	Swachhata Activity	7	230	2	Sarapanch

Please provide good quality photographs:

9.11. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Seminar on nutritional security to farm women	4	60	1	CDPO, Kendrapara

Please provide good quality photographs:

9.12. 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	Ajay Jena	Balipatna, Pattamundai,7606868877	Plantation crop orchard
2	Sumant Kumar Das	Jagulaipada, Rajkanika,9777440444	IFS

9.13. Revenue generation

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	MIDH	80000	State Hort Dept

9.14. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1	FANI damage	Repair and renovation of building	State Govt	53	Repair and renovation of building
2	RKVY	Boundary wall	State Govt	105	Boundary wall

9.15. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning

9.16. 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)						

Please provide good quality photographs:

11. DETAILS OF DAPST/ TSP

a. Achievements of physical output under TSP during 2023

Progress of DAPST for the year 2023 (Jan. to Dec., 2023)

Name of KVK	**Kendrapara**						
Sl. No.	***Item/Activity***		***Units***	***Targets/ Achievements***		***No. of Beneficiaries***	
				Annual Targets	***Achieve-ments***	***Annual Targets***	***Achieve-ments***
1	**Trainings (Capacity building/ Skill Development etc.)**		No.				
	1.1	1-3 days	No.				
	1.2	4-10 days	No.				
	1.3	2-4 weeks	No.				
	1.4	More than 4 weeks	No.				
2	**On Farm Trials (OFTs)**		No.				
3	**Front Line Demonstrations (FLDs) and other demonstrations**		No.				
4	**Awareness camps, exposure visits etc.**		No.				
5	**Input Distribution**						
	5.1	Seeds (Field Crops)	Tonnes				
	5.2	Seeds (High Value Crops, spices etc.)	kg				
	5.3	Seeds (Root & Tuber Crops)	tonnes				
	5.4	Nursery plants	No.				
	5.5	Cutting , slips, suckers, etc	No.				
	5.6	Mushroom Spawns/ Bio-Fertilizers (in Packets)	Packets				
	5.7	Honey Bee Colonies	No.				
	5.8	Animals-large (Cattle/ Buffalo/ camel/horse/donkey/Mithun/Yak etc.)	No.				
	5.9	Animals-small (pig, sheep, goat etc.)	No.				
	5.1	Poultry chicks / duckling etc	No.				
	5.11	Fish Spawns/ fingerlings	No.				
	5.12	Small equipment's (upto Rs 2000)	No.				
	5.13	Medium Equipment's/ machinery (upto Rs 25000)	No.				

	5.14	Large Equipment's / machinery (> Rs. 25000)	No.				
	5.15	Infrastructure / Civil Works/ Ponds etc	No.				
	5.16	Setting up plant nursery/ seed farm/ hatchery	No.				
	5.17	Land development/ Reclamation / Conservation	hectares				
	5.18	Fertilizers (NPK)/ Secondary fertilizers	tonnes				
	5.19	Micro nutrients	tonnes				
	5.2	FYM/ Vermicompost	tonnes				
	5.21	Soil amendments (Gypsum, lime etc.)	tonnes				
	5.22	Plant protection chemicals	kg				
	5.23	Plant growth Promoter	kg				
	5.24	Animal Feed	tonnes				
	5.25	Animal Fodder	tonnes				
	5.26	Animal medicines	doses				
	5.27	Any other (Liquid PSB etc.)	Litre				
6	**Services/Facilitation**						
	6.1	Animal Health Camps	No.				
	6.2	Artificial Insemination / Vaccination	No.				
	6.3	Veterinary Services (Hospitalization, on-site treatment, PD, surgery etc)	No.				
	6.4	Testing samples of Soil, plant, water, feed, fodder and livestock	No.				
	6.5	Promotion of agri-entrepreneurship	No.				
	6.6	Promotion of IFS, IOFS, Natural Farming, Nutrigarden, kitchen garden, orchards etc	No.				
	6.7	Creation of market links of farm produces	No.				
	6.8	Use of Institute Facilities (Processing etc.) (in Hours)	Hours				
	6.9	Subsidies/ Assistance (50% of Project cost, Max. Rs 10,000/beneficiary)	No.				
7	**Distribution of Literature**		No.				
8	**Employment generation for livelihood**		(Man-months)				
9	**Fellowship, Stipends or Scholarship**		No.				
10	**Area oriented R&D Activity (project addressing the problems of agri. Sector faced by the SC/STs and benefit directly, which is measurable and identifiable**		No. of projects				
11	**Monitoring & Evaluation of DAPSC/ST (upto 3%)**						
12	**Any other (specify)**						

b. Fund received under TSP in 2023-24 (Rs. In lakh):

12. DETAILS OF DAPSC/ SCSP

a. Achievements of physical output under SCSP during 2023

Progress of DAPSC for the year 2023 (Jan. to Dec., 2023)

Name of KVK							
Sl.No.	***Item/Activity***		***Units***	***Targets/Achievements***		***No. of Beneficiaries***	
				Annual Targets	***Achieve-ments***	***Annual Targets***	***Achieve-ments***
1	**Trainings (Capacity building/ Skill Development etc.)**		No.				
	1.1	1-3 days	No.	14	14	390	390
	1.2	4-10 days	No.				
	1.3	2-4 weeks	No.				
	1.4	More than 4 weeks	No.				
2	**On Farm Trials (OFTs)**		No.				
3	**Front Line Demonstrations (FLDs) and other demonstrations**		No.	15	14	295	285
4	**Awareness camps, exposure visits etc.**		No.	9	9	450	450
5	**Input Distribution**						
	5.1	Seeds (Field Crops)	Tonnes	1	1	30	30
	5.2	Seeds (High Value Crops, spices etc.)	kg	15	15	10	10
	5.3	Seeds (Root & Tuber Crops)	Tonnes				
	5.4	Nursery plants	No.				
	5.5	Cutting, slips, suckers, etc.	No.				
	5.6	Mushroom Spawns/ Bio-Fertilizers (in Packets)	Packets	800	800	20	20
	5.7	Honey Bee Colonies	No.	-	1	-	1
	5.8	Animals-large (Cattle/ Buffalo/ camel/horse/donkey/Mithun/ Yak etc.)	No.				
	5.9	Animals-small (pig, sheep, goat etc.)	No.				
	5.1	Poultry chicks / duckling etc.	No.	150	150	10	10
	5.11	Fish Spawns/ fingerlings	No.	10000	10000	10	10
	5.12	Small equipment's (up to Rs 2000)	No.				
	5.13	Medium Equipment's/ machinery (up to Rs 25000)	No.				
	5.14	Large Equipment's / machinery (> Rs. 25000)	No.				
	5.15	Infrastructure / Civil Works/ Ponds etc.	No.				
	5.16	Setting up plant nursery/ seed farm/ hatchery	No.				
	5.17	Land development/ Reclamation / Conservation	hectares				
	5.18	Fertilizers (NPK)/ Secondary fertilizers	Tonnes				
	5.19	Micro nutrients	Tonnes				
	5.2	FYM/ Vermicompost	Tonnes				
	5.21	Soil amendments (Gypsum, lime etc.)	Tonnes				

	5.22	Plant protection chemicals	kg				
	5.23	Plant growth Promoter	kg				
	5.24	Animal Feed	Tonnes				
	5.25	Animal Fodder	Tonnes				
	5.26	Animal medicines	doses				
	5.27	Any other (Liquid PSB etc.)	Litre				
6	**Services/Facilitation**						
	6.1	Animal Health Camps	No.				
	6.2	Artificial Insemination / Vaccination	No.				
	6.3	Veterinary Services (Hospitalization, on-site treatment, PD, surgery etc)	No.				
	6.4	Testing samples of Soil, plant, water, feed, fodder and livestock	No.	100	100	200	200
	6.5	Promotion of agri-entrepreneurship	No.				
	6.6	Promotion of IFS, IOFS, Natural Farming, Nutrigarden, kitchen garden, orchards etc	No.				
	6.7	Creation of market links of farm produces	No.				
	6.8	Use of Institute Facilities (Processing etc.) (in Hours)	Hours				
	6.9	Subsidies/ Assistance (50% of Project cost, Max. Rs 10,000/beneficiary)	No.				
7	**Distribution of Literature**		No.	4	4	2000	3000
8	**Employment generation for livelihood**		(Man-months)				
9	**Fellowship, Stipends or Scholarship**		No.				
10	**Area oriented R&D Activity (project addressing the problems of agri. Sector faced by the SC/STs and benefit directly, which is measurable and identifiable**		No. of projects				
11	**Monitoring & Evaluation of DAPSC/ST (upto 3%)**						
12	**Any other (specify)**						

b. Fund received under SCSP in 2023-24 (Rs. In lakh): 15.00

13. 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	
Green manuring in rice by dhaincha	40	-	16	0	0	0	0	35	05	35	05	40	
Organic mulching in vegetables	10	-	4	0	0	0	0	08	02	08	02	10	
Raising of field bund	10	-	4	0	0	0	0	10	0	10	0	10	
Summer ploughing	5	-	2	0	0	0	0	05	0	05	0	05	
Water recharge pit in river bed	5	-		0	0	0	0	05	0	05	0	05	
River bank plantation	1	-	5	0	0	0	0	45	5	45	5	50	

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	
Flood tolerant rice variety Swarna sub1 & CR1009 sub1	20	0	0	0	0	18	02	18	02	15	
Drought tolerant rice variety Bina 11	10	0	0	0	0	09	01	09	01	05	
Short duration greengram in post flood situation	8	0	0	0	0	15	05	15	05	20	
ICM in Rice- blackgram paira cropping system	4	0	0	0	0	18	02	18	02	20	
Round the year marigold cultivation	0.8	0	0	0	0	07	03	07	03	10	
Cultivation of cucurbits in trellis & growbag	0.8	0	0	0	0	09	01	09	01	10	
Grafted solanaceous vegetables	1	0	0	0	0	07	03	07	03	10	
Heat tolerant tomato cultivation	1	0	0	0	0	14	06	14	06	20	
Application of vermi compost in tomato	1	0	0	0	0	14	06	14	06	20	
IPM in tomato	1	0	0	0	0	15	05	15	05	20	
IPM in greengram	5	0	0	0	0	10	05	10	05	15	
IPM in coconut	0.4	0	0	0	0	07	03	07	03	10	

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	
Rearing of stress tolerant duck breed khaki Campbell	100	10		0	0	0	0	0	10	0	10	10	

Rearing of stress tolerant poultry breed rainbow roaster	200	10		0	0	0	0	06	04	06	04	10	
Post flood stocking javapunti fingerling		05	0.8	0	0	0	0	0	05	0	05	05	
Post flood stocking of yearlings to minimize culture duration		05	0.8	0	0	0	0	0	05	0	05	05	

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	
Custom Hiring Centre	1	30	0	0	0	0	45	05	45	05	50	
Fodder bank	10	02	0	0	0	0	10	0	10	0	10	

Capacity building

Thematic area	No of Courses	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T
Soil health management	1	0	0	0	0	15	15	15	15	30
Crop production	2	0	0	0	0	55	05	55	05	60
Disease & pest management	1	0	0	0	0	18	12	18	12	30
Fish pond management	1	0	0	0	0	17	13	17	13	30
Income generation	1	0	0	0	0	12	18	12	18	30

Extension activities

Thematic area	No of activities	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T
Farmers Fair cum Exhibition	1	0	0	0	0	210	90	210	90	300
Exposure visit	1	0	0	0	0	18	22	18	22	40

Detailed report should be provided in the circulated Performa

14.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
1	Best farmer OUAT	Bikash Kumar Behera	2023	OUAT	-	Pisciculture
2	Millionaire Farmer	Mukesh Kumar Dhal	2023	ICAR & Krishi Jagaran	-	IFS

15. ANY SIGNIFICANT ACHIEVEMENT OF THE KVK WITH FACTS AND FIGURES AS WELL AS QUALITY PHOTOGRAPH

16. 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 & 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		
1	Maa Kharakhai FPCL, Rajakanika	Rabindra Ku Sahoo, CEO, Mob:7008995701	317	186	493	Fish Pickle, Steps taken for opening of Aquashop and KIOSK	Capacity building
2	Baulakani FPCL, Mahakalpara	Pabitra Ku Samantray, CEO, Mob: 7894501910	322	204	526	Seed Licence, Applied for fertiliser Licence, Facilitated Potato cultivation by member farmers, Collectivisation of Coconut, Steps for collection of milk from farmers	Capacity building

17. 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
1	Pisciculture	0.2	40000 IMC fingerlings	45000	67000	17	60
2	Arecanut	115 plants	Newly planted	37200	---	---	---
3	Tomato, chilli & brinjal	0.05	Cont...	---	---	---	---
4	Betelvine	0.01	Cont...	---	---	---	---

18. 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	Demonstration on Chemical weed management in Transplanted rice	Post-emergence application of Bispyribac- Sodium @ 20 g/ ha + Almix (Metsulfuron methyl 10%+ Chlorimuron ethyl 10%) @ 4 g/ ha at 25 DAT	39392	120	
2	Demonstration on INM in Greengram	Application of 75% STBFR + Foliar application of WSF (18:18:18) @ 2% at 25 and 40 DAS	16100	80	

3	Demonstration on cultivation of grafted brinjal	Grafted brinjal cultivation (grafted brinjal Var. VNR 212)	287699	110	
4	Demonstration on cultivation of multiple disease resistant tomato variety Arka Abhed	Demonstration on cultivation of multiple disease resistant tomato variety Arka Abhed (Leaf curl virus, Early blight, Late blight and bacterial wilt)	185970	130	
5	Demonstration on ZINC application in low land rice	STBFR (NPK) + 5t FYM /ha + Zn @ 2.5 kg/ha	36740	170	
6	Demonstration on Boron application in cauliflower	Two foliar spray of Borax @ 0.25% at 10 days interval starting from 30 days after sowing	177400	150	
7	Demonstration on sucking pest management in chilli	Seed treatment with Imidachloprid 600FS @ 5ml /kg seed, Yellow sticky trap (50/ha), Blue sticky trap 50/ha) and need base alternate spraying of spiromesifen 22.9%SC @ 1 ml/ l and Acetamiprid 25 % SP @ 0.2 g./lit. of water	130000	140	
8	Demonstration on wilting management in brinjal	Seed treatment with Carbendazim @ 3 gram/kg, application of carbofuran 3G @ 25 kg/ha at planting time and soil drenching copper oxychloride 50 % WP @ 3 g/l + streptocycline @ 2 ml/15 l twice at 10 days interval	130000	120	
9	Demonstration on Milky mushroom cultivation	Milky mushroom cultivation with casing on top of the bed using crumpled straw	80/bed	60	
10	Demonstration on preparation of dyed jute fibre	Preparation of coloured fibre (belched dry fibre soak in 1 lit warm water + 50 gram fabric colour)	3900/q	70	
11	Demonstration of Java Punti as intercrop in composite fish culture	Incorporation of Java Punti with IMC i.e. stocking of Catla:Rohu:Mrigal:JavaPunti ::3:4:3:2 @ 12000 nos/ha	227000	120	
12	Demonstration of Genetically improved (GI) Catla in composite carp culture	Incorporation of GI Catla in composite carp culture with species ratio of GICatla: Rohu: Mrigal:: 3:4:3 @ 10000 nos/ha	208500	140	

19. REPORT ON DIGITAL FARMING INITIATIVES IN AGRICULTURE/ DIGITAL AG. EXTENSION SERVICE

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I (up-to 15.03.2018)					
II (up-to 24.04.2018)					
Total					

20. **INFORMATION ON VISIT OF MINISTERS TO KVKS, IF ANY**(Please provide good quality photographs)

Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)

21. a) Information on ASCI Skill Development Training Programme, if undertaken during 2023

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		
Honey Bee Farmer	Dr. S.N. Mishra	27.03.2023	22.04.2023					11	9	Yes	204275

(Please provide good quality photographs)

b) Information on Skill Development Training Programme (Other than ASCI or less than 200 hrs., if any) if undertaken during 2023

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	

22. **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 the project	Details of Issues related to gender main streaming addressed through the project

23. ANY OTHER PROGRAMME ORGANIZED BY KVK, NOT COVERED ABOVE

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

24. **GOOD QUALITY ACTION PHOTOGRAPHS OF OVERALL ACHIEVEMENTS OF KVK DURING THE YEAR** (best 10)

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