

PROFORMA FOR 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
Krishi Vigyan Kendra, Bhadrak Ranital, Odisha-756111	06784- 265825		kvkbhadrak.ouat@gmail.com kvk.bhadrak@ouat.nic.in kvkbhadrak.od@gov.in kvk.Bhadrak@icar.gov.in

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

Address	Telephone		E mail
	Office	FAX	
Registrar, O.U.A.T, Bhubaneswar, Odisha-751003	0674-2397970/ 2397818 / 2397719/ 2397669 / 2397719 / 2397919 / 2397868	0674-2397780	registrar.ouat@nic.in vc@ouat.nic.in / vc.ouat@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Sanjay Kumar Mohanty	Bhadrak	8114858376	kvk.bhadrak@ouat.nic.in

1.4. Year of sanction of KVK:2004

1.5. Staff Position (as on 1st January, 2024)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent/Temporary	Category (SC/ST/OBC/Others)
1	Senior Scientist& Head	Dr.Sanjay Kumar Mohanty	Sr. Scientist & Head	PP	APL-10, ₹ 92,500	05.07.23	Permanent	Others
2	Subject Matter Specialist	Dr. Biswa Ranjan Samantaray	Scientist	Fishery Sc	APL-11, ₹ 93,500	04.06.21	Permanent	Others
3	Subject Matter Specialist	Dr. Debiprasad Dash	Scientist	Soil Sc.	APL-10, ₹ 84,700	11.02.14	Permanent	Others
4	Subject Matter Specialist	Dr. Jyotshnarani Maharana	Scientist	Horticulture	APL-11, ₹ 93,500	04.06.21	Permanent	Others
5	Subject Matter Specialist	Dr. Bijayalaxmi Rout	Scientist	Home Science	APL-10, ₹ 84,700	04.06.21	Permanent	Others
6	Subject Matter Specialist	Vacant						
7	Programme Assistant	Sri Gayadhar Shial	Programme Assistant(Forestry)	Agroforestry	L-9, ₹ 58,600	01.10.12	Permanent	SC
8	Computer Programmer	Sri Shubhendu Ku Jena	Programme Assistant(Computer)	-	L-9, ₹ 49,000	12.08.16	Permanent	OBC
9	Farm Manager	Sri Mantu Choudhury	Farm Manager	Entomology	L-9, ₹ 41,100	04.02.19	Permanent	Others
10	Accountant / Superintendent	Vacant						
11	Stenographer	Sri Susanta Ku. Singh	Jr. Steno cum Computer Operator	Stenography	L-7, ₹ 42,000	04.06.21	Permanent	OBC
12	Driver	Sri Sanjay Kumar Panda	Driver cum Mechanic	-	L-5, ₹ 30,200	26.07.22	Permanent	Others
13.	Driver	Sri Sradhansu Sekhar Pattnaik	Driver cum Mechanic	-	L-5, ₹ 28,400	18.06.12	Permanent	Others
14.	Supporting staff	Sri Harihara Nayak	Supporting staff	-	L-1, ₹ 25,800	17.07.13	Permanent	Others
15.	Supporting staff							

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.0
2.	Under Demonstration Units, IFS unit, farm ponds	3.5
3.	Under Crops	12.0
4.	Others with details (farm roads, lowlying undulated lands)	4.9
	Total	21.4

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building	✓							
2.	Farmers Hostel					✓	280	Used	RKVY
3.	Staff Quarters	✓							
4.	Piggery unit	✓							
5	Fencing	✓							
6	Rain Water harvesting structure	✓							
7	Threshing floor					✓		Under use	RKVY
8	Farm godown					✓		Used	Seed Hub project

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

9.	Dairy unit	✓							
10.	Poultry unit	✓							
11.	Goatery unit	✓							
12.	Mushroom Lab					✓		Under use	RKVY
13.	Mushroom production unit	✓							
14.	Shade house							Used	RKVY
15.	Soil test Lab					✓		Used	ICAR
16.	Seed processing plant					✓		Used	Seed Hub

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Mahindra Bolero	2023	9,00,000.00	0	
Motor cycle	2009	54000		Requiring frequent repair

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Soil & water testing equipment			Very old equipment not functioning properly. Lab needs renovation .	ICAR
Mushroom lab equipment			Laminar air flow and autoclave are requiring frequent repair	RKVY
b. Farm machinery				
Rotavator	2017	86000	Working	Seed Hub

Scrapper / leveler	2017	35000	Working	Seed Hub
Pulse thresher	2017	78000	Working	Seed Hub
MB plough	2017	23000	Working	Seed Hub
Tractor with its accessories	2019	700000	Working	ICAR
c. AV Aids				
Laptop	2017-18	41950	Working	ICAR
Desktop	2017-18	39500	Working	ICAR
Laptop	2016-17	38000	Working	ICAR
Generator	2003-04		Not working	ICAR
LCD projector	2015-16	53000	Not working	ICAR
Handy Cam Sony	2011	20000	Working	ICAR
Camera, SLR	2016-17	36000	Working	ICAR
Desktop	2021-22	39500	Working	ICAR-Award money
Desktop	2021-22	39500	Working	ICAR-Award money
Camera Stand	2022-23	3500	Working	ICAR
Microphone(Omnidirectional)	2022-23	23998	Working	ICAR
LED TV	2022-23	28869	Working	ICAR
Webcam	2022-23	8100	Working	ICAR
Laptop	2022-23	35088	Working	ICAR-CSISA
Head phone	2022-23	1412	Working	ICAR-CSISA

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Rotavator	2018	86000	Working	Seed Hub
Scrapper / leveler	2018	35000	Working	Seed Hub

Pulse thresher	2018	78000	Working	Seed Hub
MB plough	2018	23000	Working	Seed Hub
Paddy Reaper (Self Propelled)	2022-23	150000	Working	ICAR-NICRA

1.8. Details of SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	09.01.2024	40	Trial on rice varieties in Saline soils		
			Promote Natural farming in low pest load crops like beans, knolkhol		
			Suggest another source of technology in growth performance of Pengba		
			Promote awareness on quality gur making		
			Promote leafy variety for Moringa powder preparation		
			Promote Micronutrient test for pulse crop and soil sample testing		
			Promotion of awareness and activities for Hi-tech horticulture like fertigation		
			Trials on maize promotion		
			Creation of Youtube channel for videos of promising technologies		
			Promotion of Nano DAP		
			Awareness and promotion of Crop resilient varieties for high temperature and pests		
			Mini feed and Biofloc unit at KVK		
			Production of literature on economics of IFS		
			Promotion of IFS activities		

			Support in poultry demonstration about the care and maintenance in poultry rearing to OLM beneficiaries		
			Activities for promotion of millets		
			Promote hygienic method of fish drying at Basudevpur FPOs, Value addition by hygienic dry fish		
			Market linkages for FPO on vegetable and pulse growers		
			Conservation based rice cropping system		
			Trial on off-season vegetable cultivation		
			Promotion of marigold round the year		

** Salient recommendation of SAC in bullet form*

Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2023)

Sl. no.	Item	Information
1	Major Farming system/enterprise	Rice-blackgram/greengram/mustard/sunflower/vegetable/sugarcane Pisciculture, Dairy, Poultry, Mushroom
2	Agro-climatic Zone	North Eastern Coastal Plain Zone
3	Agro ecological situation	3 AES in the district Alluvial Canal Irrigated

		• Low lying Flood prone • Saline soil group																								
4	Soil type	Alluvial soil: 83209 ha, Saline soil: 20200ha, Sandy soil: 19146 ha																								
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others(q/ha)	<table><tr><th>Crop</th><th>Productivity, q/ha</th><th>Crop</th><th>Productivity, q/ha</th></tr><tr><td>Rice</td><td>42-45</td><td>Groundnut</td><td>20.8</td></tr><tr><td>Greengram</td><td>5.9</td><td>Vegetables</td><td>135</td></tr><tr><td>Blackgram</td><td>6.0</td><td>Sugarcane</td><td>860</td></tr><tr><td>Mustard</td><td>6.1</td><td>Chilli</td><td>6.0</td></tr><tr><td>Sunflower</td><td>12.0</td><td></td><td></td></tr></table>	Crop	Productivity, q/ha	Crop	Productivity, q/ha	Rice	42-45	Groundnut	20.8	Greengram	5.9	Vegetables	135	Blackgram	6.0	Sugarcane	860	Mustard	6.1	Chilli	6.0	Sunflower	12.0		
Crop	Productivity, q/ha	Crop	Productivity, q/ha																							
Rice	42-45	Groundnut	20.8																							
Greengram	5.9	Vegetables	135																							
Blackgram	6.0	Sugarcane	860																							
Mustard	6.1	Chilli	6.0																							
Sunflower	12.0																									
6	Mean yearly temperature, rainfall, humidity of the district	1427 mm, Mean Max temp-32.4 and min temp-21.5																								
7	Production of major livestock products like milk, egg, meat etc.	Milk:48.2 MT/year Egg: 21.65 million/year Meat:4.38 MT/year																								

Note: Please give recent data only

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

SI No.	Name of Taluk	Name of the block	Name of villages	Major crop & enterprises	Major problems identified (crop wise)	Identified thrust Areas
1	Rajendrapur	Bhandaripokhari	Thaila	Rice fallow Dairy Poultry Fish	Low yield from DSR due to broadcast sowing, pest incidence, injudicious nutrient management Yield loss due to BPH in rice Fish production from smaller ponds leading to low profit Low milk yield and high cost of feed in dairy Slow growth rate of desi poultry bird Opportunity for intensification small ponds with fruits and vegetables	Rice fallow intensification ICM in DSR BPH management Nursery raising of carp spawns in small ponds Feed management in cows Backyard poultry for income generation

Sl No.	Name of Taluk	Name of the block	Name of villages	Major crop & enterprises	Major problems identified (crop wise)	Identified thrust Areas
2	Adia	Bonth	Kuanrda	Rice fallow Dairy Poultry Fish+fruits/vegetable	Yield loss due to BPH in rice Rice fallow High incidence of pests in rice Smaller pond size leading to non-lucrative fish farming High cost of production of Milk Poor growth potential of Desi poultry bird	BPH management Intensification of rice fallows Varietal evaluation in vegetable crops Remunerative pisciculture in small ponds Cost effective feed management in cows Strengthening livelihood support through poultry and duckery
3	Radhaballavpur	Dhamnagar	Solagaon	Rice fallow Rice-blackgrampaira Dairy Poultry	Yield loss due to BPH in rice No fertilizer management of blackgrampaira crop resulting low yield High cost of milk production High incidence of diseases like FMD and Mastitis Low growth rate of desi poultry bird	BPH management Nutrient management in paira cropping Feed management of cows Disease management in livestock Strengthening backyard poultry Mushroom and duckery for income generation
4	Bodak	Tihidi	Orali	Rice fallow Rice-blackgrampaira Dairy Poultry	No fertilizer management of blackgrampaira crop resulting low yield High cost of milk production High incidence of diseases like FMD and Mastitis Slow growth rate of desi poultry bird Opportunity for mushroom production	Nutrient management in paira cropping Feed management of cows Disease management in livestock Strengthening backyard poultry Duckery for income generation
5	Mousudha	Chandbali	Junuda	Ricefallow Dairy Poultry	Low yield from local rice varieties High incidence of insect and diseases in rice High cost of milk production High incidence of diseases like FMD and Mastitis Poor growth potential of desi poultry bird	Varietal evaluation for salt affected ecology Paira cropping in fallows Fodder production for feed management of cows Backyard poultry variety Mushroom cultivation for income generation

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
Thaila	Bhandaripokhari	ICM of mechanized direct seeded rice with STBFR High valued horticultural crops on dykes of backyard small ponds Blackgram as paira for intensification of rice fallows Nursery raising of carp spawns to frys in small backyard tanks Vermicompost production using locally available resources Fodder and azolla production for feed management of cow Multidisciplinary trainings Animal Health Camp and Awareness camp on Soil sample collection and testing Seed treatment campaign
Kuanrda	Bonth	ICM of mechanized direct seeded rice with STBFR Mechanical transplanted rice demonstration Nutrient management in rice blackgrampaira cropping Fodder and azolla production for feeding management of cattle Rainbow rooster in backyard system Multidisciplinary trainings
Solagaon	Dhamnagar	ICM of mechanized direct seeded rice with STBFR High valued horticultural crops on dykes of backyard small ponds Nutrient management inrice-blackgrampaira

		Nursery raising of carp spawns to fry in small backyard tanks Vermicompost production using locally available resources Fodder and azolla production for feed management of cow Multidisciplinary trainings Animal Health Camp
Orali	Tihidi	ICM of mechanized direct seeded rice with STBFR Nutrient management in rice blackgram paira cropping Fodder and azolla production for feeding management of cattle Rainbow rooster in backyard system Multidisciplinary trainings
Junuda	Chandbali	Salt tolerant rice variety Luna Sampad for saline area Blackgram as paira for intensification of rice fallows Fodder and azolla for feeding management of cattle Multidisciplinary trainings

2.1 Priority thrust areas

S. No	Thrust area
1.	Biotic and abiotic stress management in rice with special reference to BPH, blast, BLB, salinity, weeds and flood
2.	Nutrient management of pulses and area expansion under rainfed rice-fallow
3.	ICM of sunflower
4.	Promotion of vermicompost and organic farming
5.	Soil health management and management of problematic soil
6.	Organic & Natural farming
7.	Pest management of vegetable crops
8.	Promotion of pond based integrated farming system
9.	Under utilization of community pond
10.	Multiple stocking and multiple harvesting
11.	Biofloc based fish farming
12.	Preparation of farm made feed using local available ingredients
13.	Promotion of backyard poultry rearing system for small and marginal farmers
14.	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

[illegible][illegible]

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

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
6	9	350	450

* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper							
Seminar/conference/ symposia papers	01		-	-	-	Participated and poster presented on Impact of Integrated farming system approach on Doubling farmers income in the 83 rd Annual conference of ISAE held at OUAT, Bhubaneswar from Dec 18-20,2023	Poster presentation
Books							
Bulletins							
News letter	KVK news letter	500	-	-	-	-	-
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature	07	3500	-	--	-	-	-

Technical reports							
Electronic Publication (CD/DVD etc)							
TOTAL							

3.1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of organic formulations for organic production of pointed gourd
2.	Problem diagnosed	Opportunity for promoting organic farming in high valued vegetable
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: NPK @130-80-60 TO1: AmritPani (Cow dung- 10kg + 500gm jaggery + 250 ml mustard oil + Water- 200L) Soil +Foliar application TO2: Jeevamrut (Cow dung- 10kg +Cow urine- 10L +Jaggery- 2kg + Flour of pulse – 2kg + Live soil (Healthy soil)- 1 kg + Water- 200L), soil and foliar application
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO1- NEERI, 2018 TO2-TNAU, 2018
5.	Production system and thematic area	Rice-Vegetable, Organic farming
6.	Performance of the Technology with performance indicators	Vine length, no. of fruits, yield and Net return are better in farmer's practice. But the B: C ratio is better in case of application of jeevamrut followed by amrit pani
7.	Final recommendation for micro level situation	Trial will be repeated in second year with other packages of natural farming
8.	Constraints identified and feedback for research	Proper package of practices are to be developed
9.	Process of farmers participation and their reaction	Trials conducted in participatory approach. Farmers are encouraged to use organic formulation to save the environment. They are also interested to go for organic.

Thematic area:

Problem definition: Opportunity for promoting organic farming in high valued vegetable

Technology assessed:

FP: NPK @130-80-60

TO1: AmritPani (Cow dung- 10kg + 500gm jaggery + 250 ml mustard oil + Water- 200L) Soil +Foliar application

TO2: Jeevamrut (Cow dung- 10kg +Cow urine- 10L +Jaggery- 2kg + Flour of pulse – 2kg + Live soil (Healthy soil)- 1 kg + Water- 200L), soil and foliar application

Table:

Technology option	No. of trials	Yield component		Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Vine length(cm)	No. of fruits/plant						
FP	7	169.8	74.3		129.46	140125	388393	248268	2.77
TO1	7	166.77	72.4		112.05	119950	336161	216211	2.8
TO2	7	168.7	76.1		115.18	120900	345536	224636	2.86

Results: Vine length, no. of fruits, yield and Net return are better in farmer's practice. But the B: C ratio is highest in case of application of jeevamrut as 2.86 followed by amrit pani as 2.8 against the B:C ratio as 2.77 in case of farmers' practices.

Good quality photographs of different treatments:





OFT-2

1.	Title of On farm Trial	Assessment of natural farming practices in few vegetable crops (Brinjal, pointed gourd, tomato)
2.	Problem diagnosed	Opportunity for improvement in soil health, cost reduction
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Application of NPK @80-50-60kg/ha TO ₁ : Beejamrut+Jivamrut, straw mulching, Neemastra TO ₂ : Amrut ghol (Cow urine-5 L +Cow dung-1 Kg + decaying fruits juice-1 L - kept for 5 days for fermentation) as Soil +Foliar application
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Subhash Palekar Krishi, 2017, Akhil Bharatiya Sajiv Kheti Samaj, Mapusa, Goa

5.	Production system and thematic area	Rice-Vegetable, Natural farming
6.	Performance of the Technology with performance indicators	Vine length, no. of fruits, fruit weight, yield and Net return in both the crops are better in farmer's practice. But the B: C ratio is better in case of application of jeevamrut followed by amrit ghol in case of pointed gourd only.
7.	Final recommendation for micro level situation	Trial will be repeated in second year with other packages of natural farming
8.	Constraints identified and feedback for research	Proper package of practices are to be developed and pest control package is to be developed for Brinjal crop
9.	Process of farmers participation and their reaction	Trials conducted in participatory approach. Farmers are encouraged to use organic formulation to save the environment. They are also interested to go for non chemical farming.

Thematic area:

Problem definition: Opportunity for improvement in soil health, cost reduction

Technology assessed:

FP: Application of NPK @80-50-60kg/ha

TO₁: Beejamrut+Jivamrut, straw mulching, Neemastra

TO₂: Amrut ghol (Cow urine-5 L +Cow dung-1 Kg + decaying fruits juice-1 L - kept for 5 days for fermentation) as Soil +Foliar application

Table:

Pointed gourd

Technology option	No. of trials	Yield component		Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Vine length(cm)	No. of fruits/plant						
FP	7	76.4	172.7		133.1	144250	399375	255125	2.77

TO1	7	73.1	170.9		118.9	115190	356719	241529	3.1
TO2	7	69.9	167.2		112.4	112060	337266	225206	3.01

Brinjal

Technology option	No. of trials	Yield component		Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Fruit weight(gm)	Fruits/plant						
FP	7	49.4	7.4		301.7	175250	452578	277328	2.58
TO1	7	48.6	7.1		254.06	1,48,812	381094	232282	2.56
TO2	7	46.4	6.9		243.5	1,44,312	365273	220961	2.53

Results: Vine length, no. of fruits, fruit weight, yield and Net return in both the crops were better in farmer's practice. But the B: C ratio is high in case of application of jeevamrut followed by amrit ghol in pointed gourd only. Due to pest load in brinjal, the BC ratio is higher in farmers practice.

Good quality photographs of different treatments:





OFT-3

1.	Title of On farm Trial	Assessment of variety & crop diversification in rice-green gram cropping system to increase system productivity
2.	Problem diagnosed	Low productivity and profitability of irrigated rice-green gram CS
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Rice (Swarna) – greengram TO1: Rice (Swarna)-maiza (Kalingaraj) (OUAT, 2019) TO2: Rice (Salandi) -toria-greengram (OUAT, 2021)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO1: OUAT, 2019 TO2: OUAT, 2021
5.	Production system and thematic area	Rice-green gram cropping system, Crops and cropping system
6.	Performance of the Technology with performance indicators	Grain yield of all crops, system productivity, economics (Cost of cultivation, gross return, net return)
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition: Low productivity and profitability of irrigated rice-green gram CS

Technology assessed:

FP: Rice (Swarna) - greengram

TO1: Rice (Swarna)-maiza (Kalingaraj) (OUAT, 2019)

TO2: Rice (Salandi) -toria-greengram (OUAT, 2021)

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP		Continuing								
TO1										
TO2										

Results:

Good quality photographs of different treatments:

OFT-4

1.	Title of On farm Trial	Assessment of millets integrated rice based cropping system in Bhadrak
2.	Problem diagnosed	Low profitability of rice-pulse cropping system and scope for integration of millet
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Rice-pulse TO1: Rice-finger millet TO2: Finger millet-toria – greengram TO3: Early rice-finger millet –greengram
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	
5.	Production system and thematic area	Rice-greengram cropping system, Crops and cropping sytem
6.	Performance of the Technology with performance indicators	Grain yield of all crops, system productivity, economics (Cost of cultivation, gross return, net return)

7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition: Low profitability of rice-pulse cropping system and scope for integration of millet

Technology assessed:

FP: Rice-pulse

TO1: Rice-finger millet

TO2: Finger millet-toria – greengram

TO3: Early rice-finger millet –greengram

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP		Continuing								
TO1										
TO2										
TO3										

Results:

Good quality photographs of different treatments:

OFT-5

1.	Title of On farm Trial	Assessment of Natural farming and organic farming in Okra
2.	Problem diagnosed	Maximum use of fertilizer & pesticides deteriorate soil health & environment increasing cost of cultivation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Fertilizer application TO₁: Farm yard manure (10 t/ha), vermicompost (2 t/ha), neem cake (5 q/ha), phosphorus solubilizing bacteria and Azotobacter @ 5 kg each/ha with organic pest and disease management practices TO₂: Intercropping with beans(1:1), seed treatment with bijamrut, application of ghanjivamrut@1 q/ac. during sowing, application of jivamrut@10 % at 10 days interval thrice in a month, application of neemasthra&brahmastra @ 3 ml/L of water in 10 days interval alternately, mulching, alternate row irrigation
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	DOGR, Pune, 2020
5.	Production system and thematic area	Rice-vegetables, Natural Farming
6.	Performance of the Technology with performance indicators	Fruit weight, fruit size, yield , BC ratio, organic carbon status, microbial population
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition: Maximum use of fertilizer & pesticides deteriorate soil health & environment increasing cost of cultivation

Technology assessed:

FP: Fertilizer application

TO₁: Farm yard manure (10 t/ha), vermicompost (2 t/ha), neem cake (5 q/ha), phosphorus solubilizing bacteria and Azotobacter @ 5 kg each/ha with organic pest and disease management practices

TO₂: Intercropping with beans(1:1), seed treatment with bijamrut, application of ghanjivamrut@1 q/ac. during sowing, application of jivamrut@10 % at 10 days interval thrice in a month, application of neemastra&brahmastra @ 3 ml/L of water in 10 days interval alternately, mulching, alternate row irrigation

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP		Continuing								
TO1										
TO2										

Results:

Good quality photographs of different treatments:

OFT-6

1.	Title of On farm Trial	Assessment of decomposer for in-situ residue management in rice
2.	Problem diagnosed	Burning of paddy straw in rice field causes increasing air pollution, nutrient loss

		& degradation of soil health
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Harvesting of rice in combine harvester and burning of residue in the field TO₁: NRRI decomposer @ 1 Kg culture suspension in 100 lit. of water along with 0.5% urea and 10 kg cow dung in 100 lit. of water per tonne of paddy straw in 100 lit. Cow dung slurry is spread over the straw followed by urea solution and Culture suspension. TO₂: PUSA decomposer @ 4 capsules in 25 lit. of water with 2 % jaggery solution and pulse powder for 1 ha(10 lit. water + 1 Kg jaggery is boiled, after cooling 4 capsules + 200 g pulse powder is added in to the water + jaggery solution and kept for 7 days for the growth of microbes, again 15 it. water + 1.5 Kg jaggery is boiled and after cooling, 300g pulse powder is added to this solution . This solution is mixed with the previous solution in which capsules have been added.. This 25 lit. solution is sprayed over 1 ha straw lying in the field after harvest.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-IARI, 2020 ICAR-NRRI, 2021
5.	Production system and thematic area	Rice-fallow, Rice-Pulses, Rice-vegetables, INM
6.	Performance of the Technology with performance indicators	Period of decomposition, rate of decomposition, cost of intervention (before & after)
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition: Burning of paddy straw in rice field causes increasing air pollution, nutrient loss & degradation of soil health

Technology assessed:

FP: Harvesting of rice in combine harvester and burning of residue in the field

TO₁: NRRI decomposer @ 1 Kg culture suspension in 100 lit. of water along with 0.5% urea and 10 kg cow dung in 100 lit. of water per tonne of paddy straw in 100 lit.

Cow dung slurry is spread over the straw followed by urea solution and Culture suspension.

TO₂: PUSA decomposer @ 4 capsules in 25 lit. of water with 2 % jaggery solution and pulse powder for 1 ha(10 lit. water + 1 Kg jaggery is boiled, after cooling 4 capsules + 200 g pulse powder is added in to the water + jaggery solution and kept for 7 days for the growth of microbes, again 15 lit. water + 1.5 Kg jaggery is boiled and after cooling, 300g pulse powder is added to this solution . This solution is mixed with the previous solution in which capsules have been added.. This 25 lit. solution is sprayed over 1 ha straw lying in the field after harvest

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP		Continuing								
TO1										
TO2										

Results:

Good quality photographs of different treatments:

OFT-7

1.	Title of On farm Trial	Assessment of different growing media for raising seedlings in portrays
2.	Problem diagnosed	High mortality and poor quality of seedling produced in portray using FYM mixed soil
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Raising seedling in portrays using FYM mixed soil TO1: Raising seedlings in portray with Cocopeat, Spraying of 0.3 percent (3g/liter) water-soluble fertilizer using poly feed (19 all with trace elements) twice (12 and 20 days after sowing) is practiced to enhance the growth of the seedlings, Systemic insecticides are sprayed 7-

		10 days after germination and before transplanting for managing the insect vectors TO2 : Raising seedling using 75% Cocopeat + 25 % FYM enriched with neem cake and biopesticides in portrays.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO1- CIWA2015 TO2- TNAU Portal 2019
5.	Production system and thematic area	uplands
6.	Performance of the Technology with performance indicators	Height of seedlings (cm), leaf area (cm ²), Germination %, Mortality %, Seedling /10 trays income per ha
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Farmers speculation on use of media was understood by them after doing the trial

Thematic area:

Problem definition:

Technology assessed:

FP: Raising seedling in portrays using FYM mixed soil

TO1: Raising seedlings in portray with Cocopeat, Spraying of 0.3 percent (3g/liter) water-soluble fertilizer using poly feed (19 all with trace elements) twice (12 and 20 days after sowing) is practiced to enhance the growth of the seedlings, Systemic insecticides are sprayed 7-10 days after germination and before transplanting for managing the insect vectors

TO2 : Raising seedling using 75% Cocopeat + 25 % FYM enriched with neem cake and biopesticides in portrays.

Table:

Technology option	No. of trials	Yield component			Mortality (%)	Seedlings/ 10tray	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Days to germination	Germination %	Seedling ht at transplanting (cm)						
FP:		12	83.7	13.1	47.1	433	596.8	867.2	270.4	1.45
TO1	7	7.28	86.4	16	11.4	750	1184.3	1875.5	691.2	1.58
TO2	7	7.57	88.5	18.4	10.1	780	944.36	1949.8	1005.49	2.06
CD		0.698			0.704	11.197				

Results: Raising seedling using 75% Cocopeat + 25 % FYM enriched with neem cake and biopesticides in portrays has been helpful in reducing the use of cocopeat alone as growing media along with quality of seedling.

Good quality photographs of different treatments:



Please provide all the OFTs in same format

OFT-8

1.	Title of On farm Trial	Assessment of off season vegetables during late kharif for higher income
2.	Problem diagnosed	Low income from vegetables grown during the crop season
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Brinjal, Chilli TO1: Tomato, Utkal kumari, Aug planting TO2: Cauliflower, Sabour agrim, Aug planting TO3: Coriander, Gujrat Dantewada leafy coriander 1, Aug planting
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO1- OUAT, BBSR 2012 TO2- BAU Sabour, 2018 TO3- DAU, 2018

5.	Production system and thematic area	uplands
6.	Performance of the Technology with performance indicators	Fruits/plant, leaf wt /plant, curd wt/plant Yield/plant Price per kg
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	They are very interested to take up offseason vegetable cultivation with use of lowcost polyhouse for seedling raising

Thematic area:

Problem definition:

FP: Brinjal, Chilli

TO1: Tomato, Utkal kumari, Aug planting

TO2: Cauliflower, Sabour agrim, Aug planting

TO3: Coriander, Gujrat Dantewada leafy coriander 1, Aug planting

Table:

Technology option	No. of trials	Yield component				Yield (Q)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		wt/plant g	fruits /leaf wt /plant g							
FP:		969	51.7			89.7	201491	224239.42	22748	1.11
TO1	7	290	290			64.3	95616	160833.33	65217	1.68

TO2	7		34			117	139116	293648.59		2.11
		626							154533	
TO3			19.6			65.2		163000.00		3.20
		19.6					50913		112087	
CD		NA	NA			NA				

Results: the offseason coriander cultivation gives more net profit due to less cost of cultivation



OFT-9

1.	Title of On farm Trial	Assessment of integrated pest management modules in sunflower
	Season	(Rabi 2022-23)

2.	Problem diagnosed	Yield reduction due to collar rot/stem rot, leaf damage & head damage in sunflower
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Drenching of carbendazim + mancozeb , Spraying of Lambda cyhalothrin, Cypermethrin TO₁: Spot application of FYM incubated with T. viridae + P. flourescence @ 5 kg/ ha + Spot drenching of Tebuconazole @ 500 ml/ ha+ Pheromone Trap for monitoring of spodoptera & helicoverpa+ Alternate need based application of neem oil (1500 ppm) @ 1.5 L/ ha and Flubendiamide 480 SC @ 150 ml/ ha + Poison bait placement (10 kg Rice bran+ 1 kg jaggery+ 200 g cartap hydrochloride) TO₂: Spot application of metalaxyl + mancozeb@2g/l +mechanical destruction of larvae+2 sprays of spinosad 45sc@175ml/ha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RRTTS, Ranital, 2022
5.	Production system and thematic area	Sunflower & IPM
6.	Performance of the Technology with performance indicators	TO ₁ was found significant over TO ₂ and FP with low Disease incidence (%) 5.5, Leaf damage by spodoptera (%) 8.5, Head damage by helicoverpa (%) 5.5 and high Seed Yield (q/ha) 16.2
7.	Final recommendation for micro level situation	Spot application of FYM incubated with T. viridae + P. flourescence @ 5 kg/ ha + Spot drenching of Tebuconazole @ 500 ml/ ha+ Pheromone Trap for monitoring of spodoptera & helicoverpa+ Alternate need based application of neem oil (1500 ppm) @ 1.5 L/ ha and Flubendiamide 480 SC @ 150 ml/ ha + Poison bait placement (10 kg Rice bran+ 1 kg jaggery+ 200 g cartap hydrochloride)
8.	Constraints identified and feedback for research	Bio agents are not available easily in locally, so the bio agents production and supply in needy
9.	Process of farmers participation and their reaction	Training and field discussion

Thematic area: IPM

Problem definition: Yield reduction due to collar rot/stem rot, leaf damage & head damage in sunflower

Technology assessed:

TO₁: Spot application of FYM incubated with *T. viridae* + *P. fluorescence* @ 5 kg/ ha + Spot drenching of Tebuconazole @ 500 ml/ ha+ Pheromone Trap for monitoring of spodoptera & helicoverpa+ Alternate need based application of neem oil (1500 ppm) @ 1.5 L/ ha and Flubendiamide 480 SC @ 150 ml/ ha + Poison bait placement (10 kg Rice bran+ 1 kg jaggery+ 200 g cartap hydrochloride)

TO₂: Spot application of metalaxyl + mancozeb@2g/l +mechanical destruction of larvae+2 sprays of spinosad 45sc@175ml/ha

Table:

Technology option	No. of trials, Location	Disease incidence (%)	Leaf damage by spodoptera (%)	Head damage by helicoverpa (%)	Seed Yield (q/ha)	Net return (Rs./ha)	BC ratio
FP	7	13.75	20.5	11.5	11.2	24,100	1.55
TO ₁	7	5.5	8.5	5.5	16.2	50,600	2.05
TO ₂	7	8.25	12	8	13.5	35,400	1.77
CD at 5%					2.1		

Results: TO₁ was found significant over TO₂ and FP with low Disease incidence (%) 5.5, Leaf damage by spodoptera (%) 8.5, Head damage by helicoverpa (%) 5.5 and high Seed Yield (q/ha) 16.2



OFT-10

1.	Title of On farm Trial	Assessment of Panama wilt in banana
	Season	Rabi 2023-24
2.	Problem diagnosed	Low yield due to high infestation of panama wilt in banana
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Spraying of Carbendazim and Dimethoate TO1: Planting of disease free suckers+apply lime@40g/pit+ neem cake@250g/pit+vermicompost 500g+soil drenching of 0.2% carbendazim 50WP spolution at 2nd, 4th & 6th months after planting+stem injection of carbendazim 50WP@2-3ml/plant(2g/l solution) at 3rd, 5th & 7th MAP TO2: Planting of disease free suckers+apply lime@40g/pit+ neem cake@250g/pit+vermicompost 500g+soil drenching of 0.1% (Trifloxystrobin 25WP+Tebuconazole 50WP) solution at 2nd, 4th & 6th MAP+ stem injection of (Trifloxystrobin 25WP+Tebuconazole 50WP) 2-3ml/plant (1g/l solution) at 3rd, 5th & 7th MAP
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on fruits, OUAT, 2019 & NRCB, Tamilnadu, 2018
5.	Production system and thematic area	Banana & IDM

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

Thematic area:

Problem definition:

Technology assessed:

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						

Results:

Good quality photographs of different treatments:

OFT-11

1.	Title of On farm Trial Season	Assessment of Integrated management practices of spiraling whitefly in coconut Rabi 2023-24
2.	Problem diagnosed	Low yield due to high infestation of spiraling whitefly in coconut
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Spraying of Dimethoate, imidachloprid TO1: Wrapping of yellow sticky polythene around the trunk at 1.5m above the ground level+spraying of 1% starch solution+alternatespraying of neem oil 300ppm@5ml/L of water & spiromesifen 240SC@1ml/L of water at 15 days interval TO2: Installation of light traps@2/acre during night hours (7pm to 11pm)+installation of yellow sticky trap 6ft. Fom ground level+spraying of maida flour 250g/10L of water on sooty mould+forcible water spray on under surface of leaves to remove egges, nymphs, pupae & adult flies+alternate sprayning of neem oil 300ppm@5ml/L of water @ Diafenthuron 50WP@200g/acre
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Tamilnadu, 2022
5.	Production system and thematic area	Coconut & IPM

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

Thematic area:

Problem definition:

Technology assessed:

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						

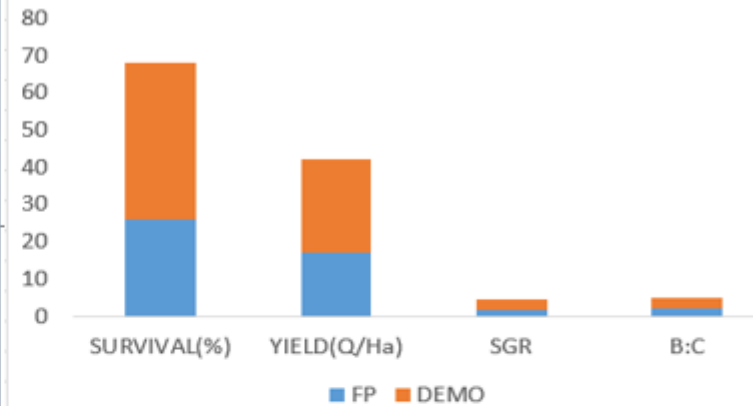
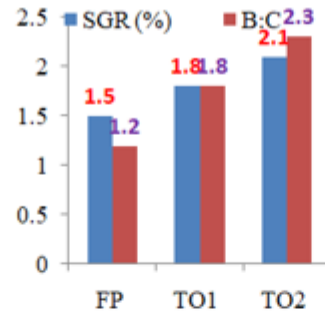
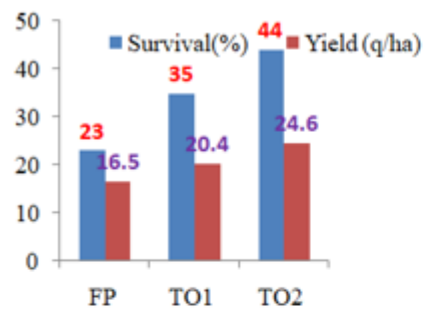
Results:

Good quality photographs of different treatments:

OFT-12

1.	Title of On farm Trial	Assessment of genetically improved Catla spawn for maximising fish productivity
2.	Problem diagnosed	High mortality and poor initial growth rate of Catla spawns in nursery pond
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-1: Nursery management with stocking of improved Catla spawns @30 lakhs/ha with single basal manuring TO-2: Nursery management with stocking of improved Catla spawns @30 lakhs/ha with phased manurin
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO-1: ICAR-CIFA – 2015 TO-2: ICAR-CIFA – 2018
5.	Production system and thematic area	Pond based farming system
6.	Performance of the Technology with performance indicators	By adopting the technology the farmers can not only increased their quantity of fingerling production but also can able to make additional profit of 28%
7.	Final recommendation for micro level situation	Farmers are keen to adopt the technology and successfully undergone though the demonstration programme in the year 2023-24.
8.	Constraints identified and feedback for research	Timely availability of the GI Catla spawn
9.	Process of farmers participation and their reaction	Farmers have actively participated during the trail with both stocking, feeding and rearing management practices

Results:



RESULTS

TREATMENTS	SURVIVAL(%)	YIELD (Q/HA)	SGR (%)	B:C
FP	23	16.5	1.5	1.2
TO ₁	35	20.4	1.8	1.8
TO ₂	44	24.6	2.1	2.3

	SURVIVAL (%)	YIELD (Q/Ha)	SGR	B:C
FP	26	17.2	1.7	2.2
DEMO	42	24.9	2.7	2.8

ASSESSMENT OF GENETICALLY IMPROVED CATLA SPAWN FOR MAXIMIZING FISH PRODUCTIVITY

DEMONSTRATION ON GENETICALLY IMPROVED CATLA SPAWN FOR MAXIMIZING FISH PRODUCTIVITY

Good quality photographs of different treatments:

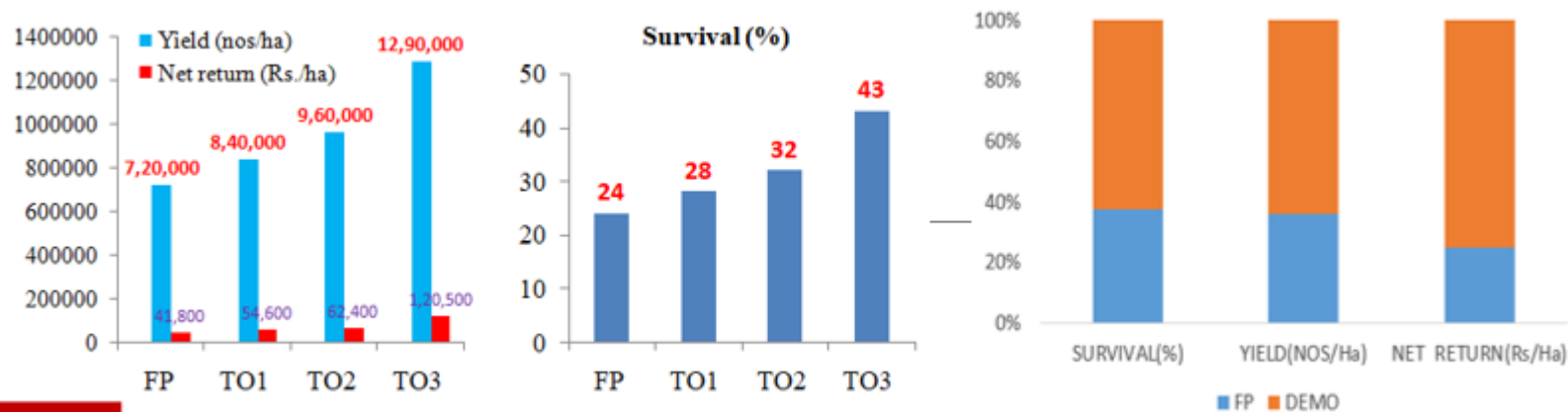


OFT-13

1.	Title of On farm Trial	Assessment of growth promoters for maximizing carp fry yield in nursery tanks
2.	Problem diagnosed	Less growth rate and poor yield of fry
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers' Practice (FP) : Only powdered feed (Rice bran: GNOC ::1:1) Technology Option-1 (TO-1) : Use of Manganous sulphate and Cobaltous chloride each at a dose of 0.01mg per spawn per day (Incorporated with powdered feed) Technology Option-2 (TO-2) :Use of commercially available yeast powder (<i>Saccharomyces cerevisiae</i>) at a dose of 0.5% of total powdered feed to be served daily Technology Option-3 (TO-3) : Incorporation of commercially available RAAFRES-AQ @250ppm in powder feed
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO-1-ICAR-CIFA – 20013, TO-2 – TNAU-20019 and ICAR-CIFE – 2015
5.	Production system and thematic area	Production and Management

6.	Performance of the Technology with performance indicators	By adopting the technology the farmers able to maximize their fry production and can able to get additional profit of 32%
7.	Final recommendation for micro level situation	Farmers are keen to adopt the technology and successfully undergone though the demonstration programme in the year 2023-24.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Farmers have actively participated during the trail with both stocking, feeding and rearing management practices

Results:



RESULTS

TREATMENTS	SURVIVAL (%)	YIELD (NOS/HA)	NET RETURN (RS./HA)
FP	24	7,20000	41,800
TO ₁	28	8,40000	54,600
TO ₂	32	9,60000	62,400
TO ₃	43	12,90000	1,20500

	SURVIVAL (%)	YIELD (NOS/HA)	NET RETURN (RS./HA)
FP	27	7,50000	45800
DEMO	45	13,10000	1,51000

ASSESSMENT OF GROWTH PROMOTERS FOR MAXIMIZING CARP FRY YIELD IN NURSERY TANKS

DEMONSTRATION ON GROWTH PROMOTERS FOR MAXIMIZING CARP FRY YIELD IN NURSERY TANKS

Good quality photographs of different treatments:



OFT-14

1.	Title of On farm Trial	Assessment of growth performance of minor carps in polyculture with IMC
2.	Problem diagnosed	Poor growth rate & low market price of compatible minor carps in polyculture
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: IMC only TO1: IMC with additional stocking of Kalbasu (<i>Labeo calbasu</i>) TO2: IMC with additional stocking of Java punti (<i>Puntius gonionotus</i>) TO3:IMC with additional stocking of fringe-lipped carp (<i>Labeo fimbriatus</i>) TO4: IMC with additional stocking of Pengba
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	TO1, TO2, TO3: CIFA,2016 TO4: CIFA,2020
5.	Production system and thematic area	Production management

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

Results:

Assessment of growth performance of minor carps in polyculture with IMP

Problem identified: Poor growth rate & low market price of compatible minor carps in polyculture

ONGOING

Production system : Pond Based

Farmers Practice (FP): IMC only

No. of trials: 06 Season: Rabi, 2023-24

TECHNOLOGY OPTION

TO1: IMC with additional stocking of Kalbasu (*Labeo calbasu*)

TO2: IMC with additional stocking of Java punti (*Puntius gonionotus*)

TO3: IMC with additional stocking of fringe-lipped carp (*Labeo fimbriatus*)

TO4: IMC with additional stocking of Pengba



Good quality photographs of different treatments:

OFT-15

1.	Title of On farm Trial	Assessment of growth performance of Sea bass and GIFT Tilapia in polyculture with IMC in shrimp pond
2.	Problem diagnosed	Non utilization of shrimp pond after the harvesting (dry phase)
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Underutilization of shrimp pond after the harvest or IMC only TO1: IMC with additional Stocking of sea bass seed (10%) TO2: IMC with additional Stocking of GIFT Tilapia(10%) TO3: IMC with additional Stocking of sea bass (5%)+ GIFT Tilapia(5%)
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	TO1, TO2: CIBA,2017 TO3: KAU, 2016
5.	Production system and thematic area	Production management
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Results:

Assessment of growth performance of Sea bass and GIFT Tilapia in polyculture with IMC in shrimp pond

Problem identified: Non utilization of shrimp pond after the harvesting (dry phase)

ONGOING

Production system : Pond Based

Farmers Practice (FP): Underutilization of shrimp pond after the harvest or IMC only

No. of trials: 01 *Season: Rabi, 2023-24*

Location: Bidheipur, Bhanjasahi

TECHNOLOGY OPTION

TO1: IMC with additional Stocking of sea bass seed (10%)

TO2: IMC with additional Stocking of GIFT Tilapia(10%)

TO3: IMC with additional Stocking of sea bass (5%)+ GIFT Tilapia(5%)



OFT-16

1.	Title of On Farm Trial	Assessment of different shapes of beds for cultivation of paddy straw mushroom (<i>Volvariella Volvacea</i>) for yield enhancement using crumpled
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		straw.
2.	Problem diagnosed	Unavailability of unthreshed paddy straw
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP: Using 10kg bundled paddy straw ,soaking of straw in water for 10 hrs in 2% CaCO ₃ and 2% dry substrate TO1: Circular compact bed size (45 cm diameter,45 cm height). For Mushroom production by using crumpled paddy straw 10kg,soaking of straw in water for 5 hours in 2% CaCO ₃ ,15-20 days of mushroom spawn at 2% of dry substrates TO2: Rectangular compact bed size (45 cm diameter,45 cm height). For Mushroom production by using crumpled paddy straw 10kg,soaking of straw in water for 5 hours in 2% CaCO ₃ ,15-20 days of mushroom spawn at 2% of dry substrates
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CTMRT, OUAT, Bhubaneswar, Odisha, 2010
5.	Production system and thematic area	Mushroom production & Income generation
6.	Performance of the Technology with performance indicators	Biological efficiency & yield per bed is better in the rectangular bed method of mushroom cultivation reducing the cost of cultivation
7.	Final recommendation for micro level situation	Due to use of machineries in paddy harvesting, huge available crumpled straw is recommended for mushroom cultivation under rectangular method of cultivation
8.	Constraints identified and feedback for research	Further research is required to increase the production
9.	Process of farmers participation and their reaction	Participatory involvement of farmers is there and there is good.

Thematic area: Income generation

Problem definition: Unavailability of unthreshed paddy straw

Technology assessed:

TO1: Circular compact bed size (45 cm diameter,45 cm height). For Mushroom production by using crumpled paddy straw 10kg,soaking of straw in water for 5 hours in 2% CaCO₃,15-20 days of mushroom spawn at 2% of dry substrates

TO 2 Rectangular compact bed size (45 cm diameter,45 cm height). For Mushroom production by using crumpled paddy straw 10kg,soaking of straw in water for 5 hours in 2% CaCO₃,15-20 days of mushroom spawn at 2% of dry substrates

Technology option	No. of trials	Yield component		Cost of cultivation (Rs./bed)	Gross return (Rsbed)	Net return (Rs./bed)	BC ratio
		Yeild/bed	Biological efficiency				
FP	10	0.80kg	13.05	80	160	80	2.0
TO1	10	0.50kg	10.05	52	100	48	1.9
TO2	10	0.70kg	13.02	52	140	88	2.6

Results: Though higher yield was found in farmer's practice, but the economical yield of mushroom is better in rectangular bed method by using crumpled straw than other method of practices due to less cost of production and better management of humidity and temperature within the bed.

Please provide all the OFTs in same format

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	DSR	Dry seeding with seed-cum-fertilizer	4	4					9,1		9, 1, 10				

			drill, line sowing, seed rate@40kg/ha, fertilizer along with seeding, Bispyribac sodium@250ml/ha at 15-20 DAE						
2.	Rice	INM	Collection of soil samples before rice, testing of parameters, issue of SHC, demonstration of STBR	5	1	3,1,0,0,	9,0	12,1,13	

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 ₂ O ₅	K ₂ O					
Rice	Kharif, 2023	Irrigated	Lowland	276 to 464	19 to 35	192 to 331	Fallow	June, 2023	Nov., 2023	1378.2	62
Rice	Kharif, 2023	Irrigated	Medium-	251-	19-36	177-366	Fallow	Aug., 2023	Dec.,	1382.8	63

			shallow low land	452					2023		
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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		
Mustard	ICM	Var. NRCHB 101, line sown with seed-ferti drill, NPK 60-30-30, use of B and S, Neem oil + need based PP measures	13	2	8.9	7.3	22.1	No. of siliqua-134.1	No. of siliqua-112.5	19500	31231	11731	1.6	16500	25577	9077	1.55
Groundnut	ICM	Var.Dharani, line sown with seed-ferti drill, line spacing: 30cm, NPK 20-40-40, use of B and S, Neem oil + need based PP measures	13	1.44	20.56	17.48	17.6	No. of pods/plant-30.8	No. of pods/plant-26.4	88405	143920	55515	1.62	85375	122360	36985	1.43

** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

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

	Total														
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* 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	DSR	Dry seeding with seed-cum-fertilizer drill, line sowing, seed rate@40kg/ha, fertilizer along with seeding, Bispyribac sodium@250 ml/ha at 15-20 DAE	10	4	63.26	61.84	2.3	No. of tillers-21.16	No. of tillers-19.98	60250	117031	56781	1.94	73750	114404	40654	1.55

Okra	INM	Application of vermicompost @5 t/ha+RDF @ NPK::110:60 :80 kg/ha + mixed culture of bio-fertilizers i.e. <i>Azotobactor</i> , <i>Azospirillum</i> and PSB (1:1:1) during sowing	13	0.1	144.7	126.9	14	Friut length (cm)-15.6, Plant height(cm)-71.6	Friut length (cm)-18.9, Plant height(cm)-61.5	1708 13	43413 5	26332 2	2.5 4	1704 35	3807 69	2103 34	2.2 3
Rice	INM	Collection of soil samples before rice, testing of parameters, issue of SHC, demonstration of STBR	13	1	63.6	52.8	20.3 8	No. of tillers-22.13	No. of tillers-18.85	6775 0	11766 0	49910	1.7 3	6625 0	9793 7	3148 7	1.4 7

Brinjal	INM	Application of 75% of STBR (RD-NPK::120:80:100 Kg/ha) Fertilizer N + Azotobacter 4 Kg/ha + Azospirillum 4 Kg/ha + full P and K	13	0.2	311.7	289.2	7.78	Fruit wt.(g)-48.01, No. of fruits/Plant-7.36	Fruit wt.(g)-42.04, No. of fruits/Plant-6.9	1788 25	46759 6	28877 1	2.6 1	1783 75	4338 46	2554 71	2.4 3
Pointed gourd	ICM	Artificial pollination by plucking male flowers, removal of petals ,collection of pollen by hammering with wooden stick in a glass ,diluting with water, sieving using net and pollinating female flowers by putting a drop of solution by dropper	10	0.4	100.3	75.3	35	No of fruits/plant 86.6	No of fruits/plant 65	1394 70	18120 0	41400	1.3	1364 70	1506 00	1413 0	1.1 0
cucumber	ICM	The application of Etherel @50ppm at at the first to the third leaf stage, in 3 times	10	0.4	130.59	99.01	31	No of femaleflowers/ plant 11.7	No of femaleflowers/ plant 10	8900 0	13059 0	41590	1.4 6	8720 0	9910 0	1190 0	1.1 3

Vegetables on pond dyke	ICM	Demonstration on high valued horticulture crops on dykes of farm ponds (farm pond plus) Banana (Gaja bantala)+Papaya (Coorg honey dew)+ Elephant foot yam (Gajendra) + Yam (Odisha elite/Hatikhoj) + (No.of each plant to be planted as per the space availability on pond dykes	10	0.4	501.9	150	500	Income of household 40152	Income of household 12000	13500 0	50190 0	36690 0	3.7	10000 0	15000 0	50000	1.5
Bitter gourd	ICM	Demonstration of trellis system of crop establishment in bitter gourd for higher production Lean to type trellis-stake are joined between two adjoining bed forming an A shaped structure .horizontal stakes are installed at the top joining of all other beds. The stakes support the climbing vines. Strings are used to secure adjoining stakes, trellies height 2m	10	0.2	124.4	76.4	62.8	Fruit rot % 5.0	Fruit rot % 8.8	11347 5	24880 0	13532 5	2.1 9	87010	15280 0	65790	1.7 6
Water melon		Demonstration on off season watermelon cultivation Growing of watermelon during late Rabi with seedling raising in poly bags and transplanting during late Rabi season (Dec, 23) with 200:200:100 kg NPK /ha	10	0.4	243.1	177.5	36	Wt of fruit (kg) 2.19	No of fruits/plant 2	19080 0	24311 1	13331 1	2.2 1	16666	90000	11066 6	1.85

coconut		Demonstration on integrated nutrient and irrigation management in coconut Application of 75kg FYM /palm, 500g N, 320g P ₂ O ₅ , 1200g K ₂ O per palm in two splits, basin management up to 6ft from trunk, in situ green manuring, 100g borax and 100 g magnesium sulphate/palm, basin irrigation 50 L/palm at weekly interval, coconut palm mulching during dry season	10	0.4	13091	8088	61	No nuts/plant 105	No nuts/plant 65	10674 0	13091 5	24175	1.1 7	73907	80888 8	6981	1.09
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[illegible]

	Total			
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Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	
Poultry	Small scale income generation	Demonstration of backyard poultry with improved bird Rainbow rooster	45	45	Growth B:C	Growth B:C	125 26			265	580	315	2.18	248	380	132	1.53
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery		Demonstration of backyard duckery for income generation of small holders (Continuing)															
Others (pl.specify)																	
Total																	

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

** BCR= GROSS RETURN/GROSS COST

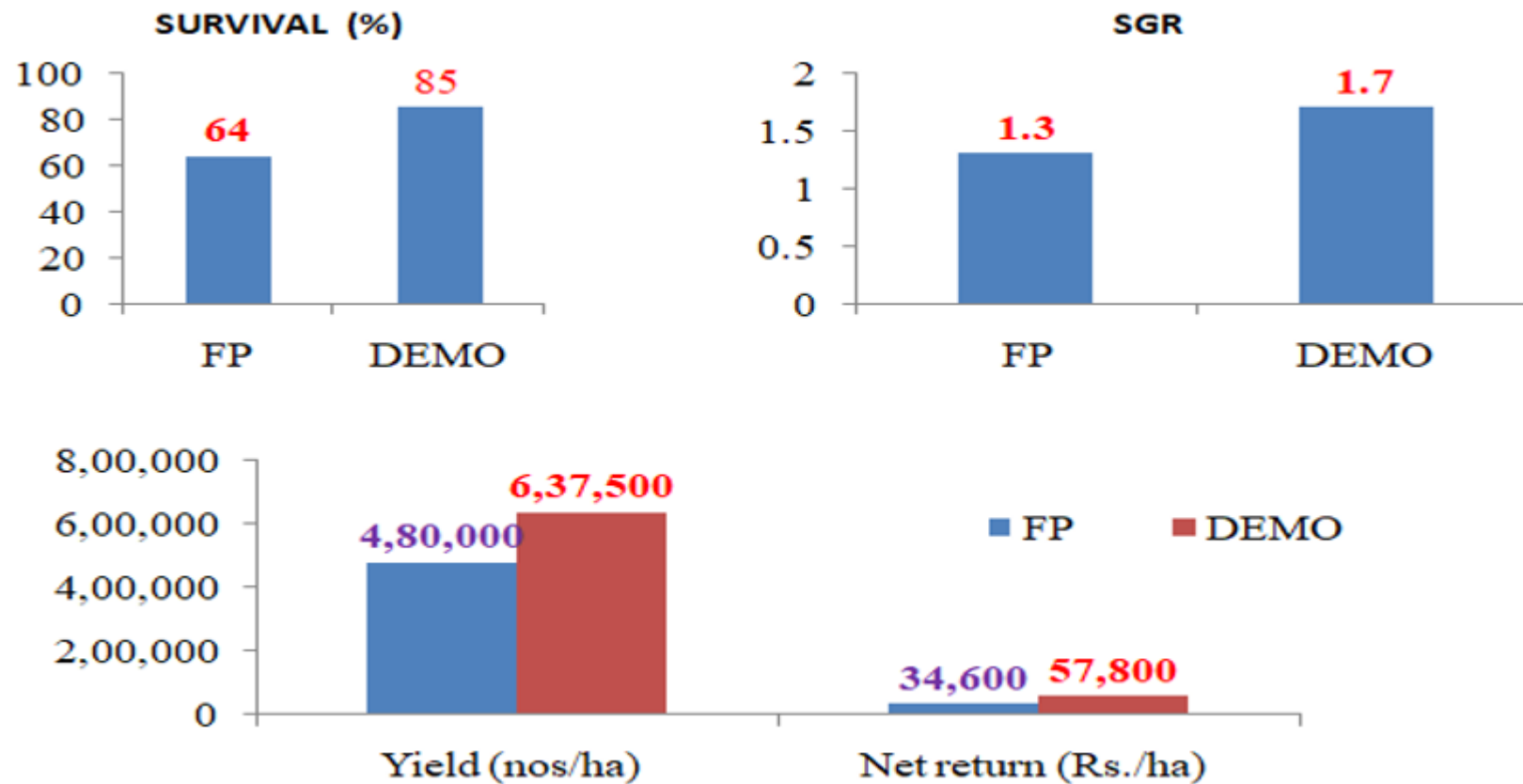
Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps		Genetically improved Catla spawns for maximizing fry production in nursery tanks	6	6	Survivability Prodcutiuron(nos)	Survivability Prodcutiuron(nos)	42 28			106640	2,66600	86,000	2.5	102000	170000	68,000	1.6
Mussels		Demonstration on growth promoters in nursery tanks for carp fry production			Survivability Prodcutiuron(nos)	Survivability Prodcutiuron(nos)	72 29			76800	238080	161280	3.1	132480	82800	49680	1.6

		Demonstration on CIFA- Carp Grower feed in grow- out pond (Continuing)															
Ornamental fishes																	
Others (pl. specify)																	
		Total															



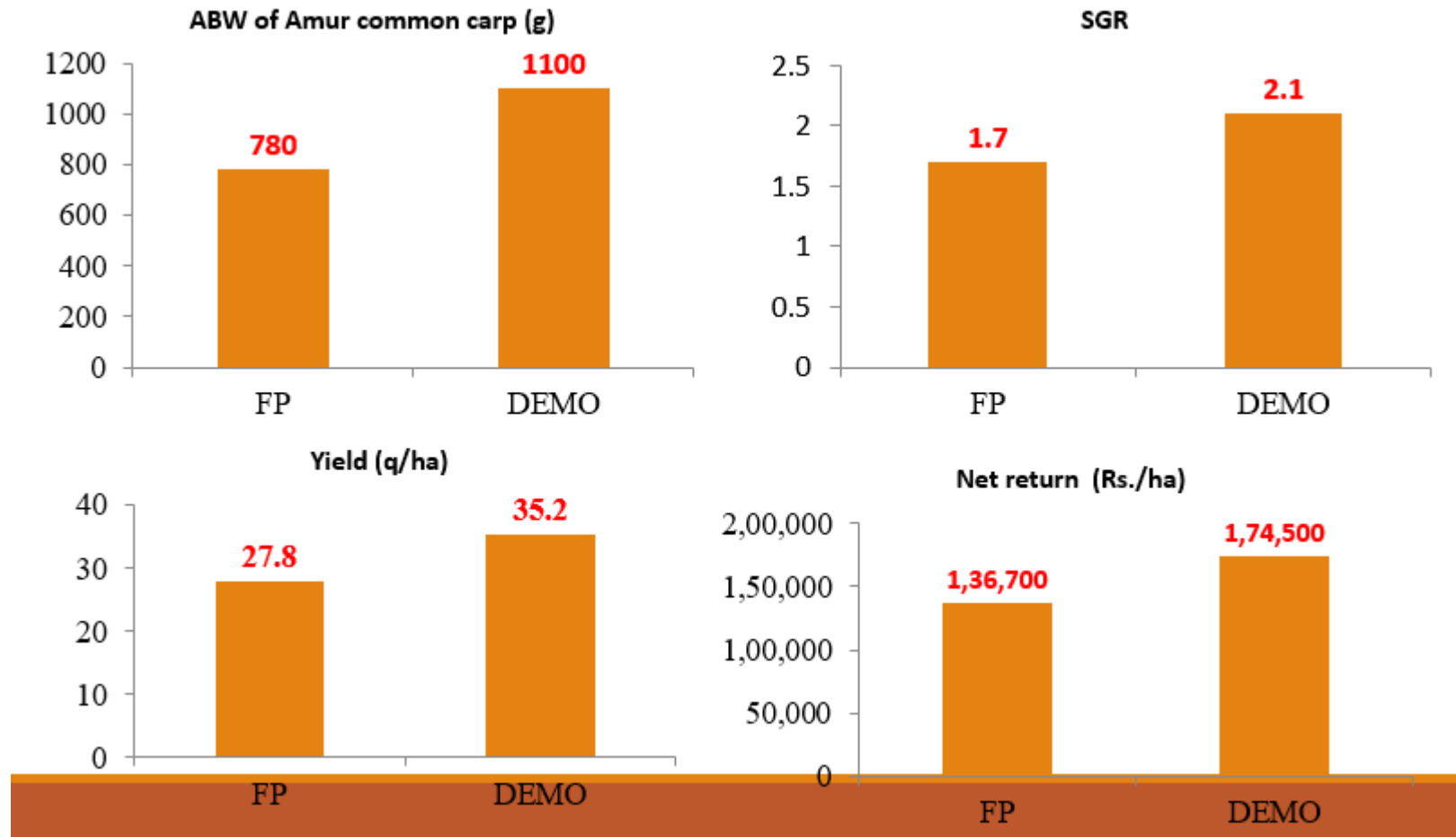
DEMONSTRATION ON PRODUCTION OF AFL IN BACKYARD PONDS



DEMONSTRATION ON PRODUCTION OF AFL IN BACKYARD PONDS



DEMONSTRATION ON AMUR COMMON CARP CULTURE FOR MAXIMIZINF FISH YIELD



DEMONSTRATION ON AMUR COMMON CARP CULTURE FOR MAXIMIZING FISH YIELD

Demonstration on CIFA- Carp Grower feed in grow-out pond

Farmers Practice: Use of GNOC:RB @1:1 as supplementary feed in grow out ponds

Problem: Low yield from the existing feed i.e. GNOC, RB

Detail of technology demonstrated: Feeding with “CIFA – Carp Grower Floating Feed” to stunted fingerlings with a gradually decreasing feeding rate 3 to 1 % of total biomass daily during the culture period

No. of Demos: 06 ,

Area: 2 ha

Season: Rabi, 2023-24



* 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			
				Demons ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR

Oyster mushroom	blue oyster mushroom var. Hypsizyous ulmarious	20	20	2.8kg/bed	2kg/bed	40	120 (biological efficiency)	100 (biological efficiency)	55	196	141	3.5	55	140	85	2.5
Moringa	Moringa powder preparation, its packaging and branding for income generation of wshgs.	20	2	200kg row leaves	--	-	20kg powder	-	10900	16000	5100	1.46	-	-	-	-
Mushroom	Demonstration on value added products of oyster mushroom	20	1	1.2kg dry mushroom	--	-	1kg mushroom soup powder	-	700	1300	600	1.9	-	-	-	=
Oyster mushroom	Enterprise development															
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl. specify)																
Total																

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

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

Other women					
Children					
Neonatal					
Infants					

Farm implements and machinery

[illegible]

* 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

[illegible]

[illegible]

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

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training				
3.	Media coverage				
4.	Training for extension functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Summer 2023:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1	Greengram var. Virat	Local greengram	5.5	78	-213	450	Greengram variety Virat • Line sowing by seed drill • Seed treatment with Rhizobium culture • Soil test based fertilizer application • Installation of	25	10	7.28	4.23	6.46	123	No gap	21

							yellow sticky trap • Installation of pheromone trap with heli lure • Installation of Tricho cards • Application of NPK consortia • Application of neem oil • Application of boron • Use of need based PP chemicals (thiamethoxam, EB)												
--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	Greengram var. Virat	17500	26600	9100	1.52	22800	44800	22000	1.96

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/household)
1	Greengram var. Virat	646	466	70.00	100	80	Household expenditure	28MD

D. Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	Greengram variety Virat	Suitable	Liked by farmers	Affordable	No	Yes	-
2	Line sowing by seed drill	Suitable	Mixed response	Affordable	No	Mixed response	Skilled man power required for the technology
3	Seed treatment with Rhizobium culture	Suitable	Liked by farmers	Affordable	No	Yes	
4	Soil test based fertilizer application	Suitable	Liked by farmers	Affordable	No	Yes	
5	Installation of yellow sticky trap	Suitable	Liked by farmers	Affordable	No	Yes	A very effective technology
6	Installation of pheromone trap with heli lure	Suitable	Liked by farmers	Affordable	No	Yes	Good technology, but not available with local dealers
7	Installation of Tricho card	Suitable	Liked by farmers	Affordable	No	Yes	Availability issue
8	Application of NPK consortia	Suitable	Liked by farmers	Affordable	No	Yes	
9	Application of neem oil	Suitable	Liked by farmers	Affordable	No	Yes	Very effective technology
10	Application of boron	Suitable	Liked by farmers	Affordable	No	Yes	Very effective technology

11	Use of need based PP chemicals (thiamethoxam, EB)	Suitable	Liked by farmers	Affordable	No	Yes	Good technology
12	Use of hermetic storage bags for safe storage of grains	Suitable	Liked by farmers	Affordable	No	Yes	Availability is an issue

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
YMV tolerance of the demo var.	No incidence of YMV in demo var.	No incidence of YMV in demo crop as compared to local check variety	The variety is not associated with YMV incidence
Micronutrient application	More fruiting	Profuse fruiting in B applied field	Micronutrient application found to be beneficial
Yellow sticky trap	Effectively controlled white fly	No incidence of leaf curl	A good insect catcher
YMV tolerance of the demo var.	No incidence of YMV in demo var.	No incidence of YMV in demo crop as compared to local check variety	The variety is not associated with YMV incidence

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Method demonstration on line sowing of greengram by seed cum fertilizer drill	10.02.2023	20
2	Method demonstration on Rhizobium inoculation in greengram	10.02.2023	20
3	Field day on CFLD greengram	30.03.2023	50

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.

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input	82000	82000	0
	ii) TA/DA/POL etc. for monitoring	3000	3000	0
	iii) Extension Activities (Field day)	2500	2500	0
	iv)Publication of literature	2500	2500	0
	Total	90000	90000	0

[illegible]

[illegible]

[illegible]

B) Rural Youth (on campus)

[illegible]

C) Extension Personnel (on campus)

[illegible]

[illegible][illegible]

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Micro irrigation systems 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	1	10		10	12	8	20				22	8	30
Others													
Total (c)	1	10		10	12	8	20				22	8	30
d) Plantation crops													
Production and Management technology	1	9	21	30							9	21	30
Processing and value addition													
Others													
Total (d)	1	9	21	30							9	21	30
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology	1	10		10		10	10	30			20	10	30
Processing and value addition													
Others													
Total (f)	1	10		10		10	10	30			20	10	30
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	1	1	17		1	11		0	0		2	28	30
Integrated water management													
Integrated Nutrient Management	1	22	2		6	0		0	0		28	2	30
Production and use of organic inputs	13	67	92	159	55	56	111	0	0	0	122	148	270
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
Others													
Total	15	90	111	159	62	67	111	0	0	0	152	178	330

[illegible]

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Others													
Total	5	65	22	87	35	21	56	2	5	7	102	48	150
VIII. Fisheries													
Integrated fish farming	01	14	3	17	10	3	13	0	0	0	24	6	30
Carp breeding and hatchery management													
Carp fry and fingerling rearing	02	36	10	46	9	2	11	2	1	3	47	13	60
Composite fish culture	04	80	17	97	15	8	23	0	0	0	95	25	120
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes	02	40	6	46	11	3	14	0	0	0	51	9	60
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming	02	35	11	46	8	3	11	0	3	3	43	17	60
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total	11	205	47	252	53	19	72	2	4	6	260	70	330
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	4	45	74	119	1	0	1	0	0	0	46	74	120
Apiculture													
Others													
Total	4	45	74	119	1	0	1	0	0	0	46	74	120
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	02	40	20	60	-	-	-	-	-	-	40	20	60
Nursery management	02	35	15	50	7	3	10	-	-	-	42	18	60
Integrated Farming Systems	03	48	32	80	5	3	8	2	-	2	55	35	90

[illegible][illegible]

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													
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	1	0	19	19		1	1				0	20	20
Protected cultivation technology	1	9	11	20							9	11	20
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													
Pesticide dealers training	1	33	0	33	0	0	0	0	0	0	33	0	33
Total	3	42	30	72	0	1	1	0	0	0	42	31	73

G) Consolidated table (ON and OFF Campus)

[illegible]

[illegible]

[illegible]

ii. RURAL YOUTH (On and Off Campus)

[illegible]

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	1	0	19	19		1	1				0	20	20
Protected cultivation technology	1	9	11	20							9	11	20

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
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													
Pesticide dealers training	1	33	0	33	0	0	0	0	0	0	33	0	33
Total	3	42	30	72	0	1	1	0	0	0	42	31	73

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
Home Science	F/FW	Nutritional garden for nutritional security of farm families	1	Off		30	30	0	0	30
	F/FW	Cultivation practices of paddy Straw mushroom by using loose straw	1	Off	12	18	30	0	0	30
	F/FW	Humidity and temperature management in paddy straw mushroom beds	1	Off	17	13	30	0	0	30
	F/FW	Crop planning and method of vegetable seedling production for nutritional garden	1	Off	0	20	20	0	10	30
	F/FW	Disease and pest management in paddy straw mushroom	1	Off	4	25	29	1	0	30
	F/FW	Cultivation practices of different varieties of	1	Off	18	12	30	0	0	30

		oyster mushroom								
	F/FW	Preparation of Moringa powder for income egeneration of SHGs.	1	Off	0	22	22	0	8	30
	F/FW	Preparation of Mushroomsoup powder for income generation.	1	Off	0	24	24	0	6	30
	F/FW	Preparation of jiggery cube and jiggery powder.	1	Off	0	21	21	0	9	30
	RY	Skill training on mushroom production	3	On	16	7	23	2	0	25
	RY	Skill training on mushroom production	3	On	18	7	25	0	0	25
	RY	Skill training on Preparation of different value added products from Ragi.	3	Off	0	14	14	0	6	20
	IS	Household food security by nutritional gardening	1	Off	0	15	15	0	5	20
	IS	Income generation activities for empowerment of Rural Women	1	Off	0	14	14	0	6	20

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 elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Mushroom	Income generation activities.	Skill training on mushroom production	3	18	7	25	Mushroom production structure	15	2-3 persons employed in each unit.	3
Mushroom	Income generation activities.	Skill training on mushroom production	3	18	7	25	Mushroom production structure	15	2-3 persons employed in each unit.	4

b) Details of participation

[illegible]

a) Details of Sponsored Training Programme

[illegible][illegible]

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

[illegible]

Conveners meet											
Self Help Group Conveners meetings											
Mahila Mandals Conveners meetings											
Celebration of important days (specify)World Soil Day & World Food Day	2	95	35	130	16	35	18	53	130	53	183
Sankalp Se Siddhi											
Swatchta Hi Sewa											
Mahila Kisan Divas	1	0	30								30
Any Other (Specify)											
QPM verification	24.1.2023										
Yuva mohotsav program	14.7.2023										
ICAR foundation Day	16.7.2023										
PM Kisan Sammelan	27.7.2023										
62 nd Foundation day live streaming	24.8.2023										
District level workshop for planning, development and approval procedures of DRR plans and implementation organised by BSSS and Caritas,India	20.12.2023										
Farmer friendly tools in coconut	20-25.11.2023										
QPM verification	24.1.2023										
Total											

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	12
Radio talks	0
TV talks	1
Popular articles	1
Extension Literature	7
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
Rice	Swarna	156	555672	1					1	0	1	0
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	MTU 1156	39.8	144434.2								
	MTU 1140	88	313456								
	Kalachmpa	80	284960								
	CR 1009 Sub 1	71	252902								
Toria	Sushree	5.5	47987								
Grand Total											

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	Barkha	11203	20,588.00	35	23	25	15	50	24		
Cabbage	Disha	2533	6,333.00	30	20	15	15	70	14		
Tomato	Samrudhi, Utkal dipti	29513	53,103.00	23	20	5	5	58	20		
Brinjal	Akshita, Utkalkeshari	33213	58,653.00	35	23	5	10	73	54		
Chilli	Haldikhadi	24589	44,713.00	43	20	20	15	77	43		
Onion	--	---									
Brocoli	Shishir	1635	4,088.00	5	0	1	2	8	2		
Moringa	ODC-3	1280	19,200.00	35	3	25	10	58	12		
Tomato	Arka Rakshak, Arka Abhed, Arka	12996 nos	32490.00	10	30	0	5	10	10	20	45

	vishesh, Arka Vikas, Arka samrat										
Brinjal	Akshita	1996 nos	4990.00	10	30	0	5	0	0	10	35
Chilli	Arka Tejasvi, Arka Yasashvi, Pusa Sadabahar	14946 nos	37365.00	10	30	0	5	10	10	20	45
Onion	NHRDF RED	15200 nos	4560.00	10	30	0	5	0	0	15	30
Others											
Fruits											
Mango	--										
Guava	-										
Lime	-										
Coconut	Sakhigoal local, Hyv.	240	24,000.00	35	23	5	5	59	4		
Papaya	Red lady, Pusa nanha	5430	1,12,550.00	55	43	25	15	76	44		
Banana	Bantal	500	14,000.00	3	3	20	10	12	4		
Others											
Ornamental plants											
Medicinal and Aromatic	Amla	600	15,000.00	5	0	15	2	23	3		
Plantation											
Spices											
Turmeric	Rajendra sonia	100 kg	3,500.00	0	0	0	0	0	0	1	4
Tuber											
Elephant yams											
Fodder crop saplings	Agasti	500 nos.	5000.00	35	3	25	15	32	14		
Forest Species	Neem, teak, agasti, bamboo, acacia, custard apple, etc.	4860 nos.	49,410.00	52	20	5	5	34	14		
Others, pl. specify											

Good quality photographs of planting materials:

Production of Bio-Products

Name of product	Quantity	Value (Rs.)	No. of Farmers benefitted							
	Kg		SC		ST		Other		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizers										
Bio-pesticide										
Bio-fungicide										
Bio-agents										
Others, please specify.										
Total										

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											
Goat											
Other, please specify											
Poultry											
Broilers											
Layers											
Duals (broiler and layer)											
Japanese Quail											
Turkey											
Emu											
Ducks											
Others (Pl. specify)											
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings											
Spawn											
Others (Pl. specify)											
Grand Total											

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 :	Dr Sanjay Kumar Mohanty, Sr. Scientist & Head-cum-Nodal Officer, Pulse Seed Hub
Address :	KVK, BHADRAK
e-mail :	kvk.bhadrak@ouat.ac.in , kvkbhadrak.ouat@gmail.com
Phone No. : Mobile :	8114858376

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 2021-22						
Summer/Spring 2023	Green gram	Virat	300	60	437.8	C/S
Kharif 2023						
Rabi 2022-2023						

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		20,88,995.00	22,82,875.00	Rs. 50 lakhs on infracture spent & completed, working condition from 2017, Rs. 35 lakhs received during 2016-17 under revolving fund
2021-22		1,60,305.00	24,71,340.00	
2022-23		8,98,598.00	23,16,247.00	
2023-24		44,51,958.00	33,66,932.00	* Pending Bills to come from OSSC & others Rs.3,85,514.00

iv) Infrastructure Development

Item	Progress
Seed processing unit	Completed
Seed storage structure	

3.6.

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

Item	Title	Author's name	Number	Circulation
Research paper				
Seminar/conference/ symposia papers				
Books	Prakrutika Krushi(Natural Farming)	Dr D Dash, Dr S. K. Mohanty	1000	Farmers & Farm Women in exhibition, training, awareness programme
Bulletins				
News letter				
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature				
Technical reports				
Electronic Publication (CD/DVD etc.)				
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.	Five Days Training Cum Exposure Visit on Natural Farming for the Master Trainers	Natural Farming for the Master Trainers	Dr D Dash, Scientist, Soil Science	18 to 22 March, 2024	MANAGE, Hyderabad & EEI, AAU, Anand, Gujarat
2.	Zonal Workshop on Outscaling of Natural Farming through KVKs	Outscaling of Natural Farming through KVKs	Dr D Dash, Scientist, Soil Science	16 to 17 Feb., 2024	Rathindra KVK, PSB(Institute of Agriculture), Viswa Bharati, Sriniketan, Birbhum & ICAR, Agricultural Technology Application Research, Kolkata
3.	Refresher Training for Soil Science and Agronomy	Management strategy of field crops under changing climate	Dr D Dash, Scientist, Soil Science	12 to 13 Feb., 2024	DEE, OUAT, Bhubaneswar
4.	Training cum exposure visit	Training cum exposure visit on IFS at the DEE and khurda	Dr JR Maharana, Scientist Horticulture	27.3.2023 to 28.3.2023	DEE,OUAT
5.	Exposure visit	Exposure visit of scientist and Technical staff to nearby KVK	Dr JR Maharana, Scientist Horticulture	19.3.2023 to 20.3.2023	KVK keonjhar,
6.	Zonalworkshop	Annual zonal workshop of NICRA	Dr JR Maharana, Scientist Horticulture	2.5.2023 to 4.5.2023	ATARI

7.	Refresher Training	Participation in refresher training programme on horticulture and tree crops 7.3.2024	Dr JR Maharana, Scientist Horticulture	7.3.2024	DEE,OUAT
8.	Refresher training for Scientist for KVKs	1.What & why of KVK 2.Food processing Why & How. etc.	Dr. BijayLaxmi Rout,Scientist (H.SC.)	4-6/1/2022	DEE, OUAT,Bhubaneswar

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

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

Story-1

Name of farmer	Sri Alok Kumar Jena
Address	At-Gharapada, PO-Dolopadi, Block-BonthDist, Bhadrak
Contact details (Phone, mobile, email Id)	Mobile no - 8310509568
Landholding (in ha.)	4acre
Name and description of the farm/enterprise	Mushroom cultivation, Vermicomposting, Rice cultivation and vegetable cultivation
Economic impact	After fulfilling of household requirement of he also sold vegetables and mushroom in nearby local market and own villagers also. In the very first season, He was able to obtain a good yield of vegetables and mushroom more than sufficient for home consumption.. She earned Rs.1000/- per day.Jena was earning 2.5 lakhs/year during 2020-21, after interventions of KVK he is earning a profit of Rs5.8 lakhs/year from his enterprise
Social impact	There are many social benefits that have emerged from Nutri gardening and mushroom cultivation practices; better health and nutrition, increased income, employment, food security within the household, and community social life.Developing a model Nutri-garden and mushroom unit helps in mitigating both nutrition-related issues andcreating an avenues for income generation. Diversification of diet not only attracts young people towards household food but also reduces the family expenditure. The unused land is also utilized on a productive way followed by engagement of family member in the unit and economically empowerment of the family.
Environmental impact	He contributes most of his time to improving health outcomes through the production of mushroom , safe and nutrient-rich food as well as income generation that can facilitate access to health services,. Mushroom cultivaion offers low-cost and sustainable solutions, in harmony with the environment, to problems in the food system; threatened by climate change, mainly through the effects of predicted abiotic stresses.
Horizontal/ Vertical spread	He have motivated many women farmers of their village of

	the district and mobilized them for the development of mushroom unit, 4 nos. of SHGs of neighboring villages has been started to develop vegetable resource mushroom unit. Apart from this, common villagers are also motivated by seeing the round the year vegetable cultivation and have come forward to start the same in their own setting.
Good quality photographs (2-3)	

Story-2

Name of farmer	Debendra Basantia
Address	Village – Fatepur, Block - Dhamnagar
Contact details (Phone, mobile, email Id)	7894667550
Landholding (in ha.)	5.5 ha
Name and description of the farm/ enterprise	High value horticultural crops on pond Dykes
Economic impact	The Bhadrak district has predominance of lowland Debendra Basantia has constructed pond to conserve the water and use the pond dykes for High value horticultural crops like Banana, Papaya, Yam, Elephant foot yam. The yield from pond dykes was 502 q/ha with banana, papaya, yam, Elephant foot yam which was only 150 q/ha with planting few banana plants. The income per house hold was Rs 40152
Social impact	The farmers in the village are keen to use the pond dykes for growing horticultural crops which gives the low of income other than lowlands used for Rice
Environmental impact	The pond dykes are planted with multitier crop to use the resources at different root zone
Horizontal/ Vertical spread	The district schemes also promoting farm plus pond scheme to enable the farmers to use the pond dykes effectively and the scheme has touched most of farmers to use the resources effectively of crops with different root and canopy behaviour. KVK has guided in choosing suitable crops

Good quality photographs (2-3)



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	Mechanised line sowing of rice(DSR) in severe flash flood affected area	Debendra Basantia (Technical backstopping by KVK)	Sowing was done in the first fortnight of May using seed cum ferti drill. When occurrence of flood was there, only mechanized sowing of rice sustained and all other transplanted rice were completely damaged due to flash flood.

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

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					

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

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

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

Sl. No	Name of the Equipment	Qty.
1	Spectrophotometer	1
2	Nitrogen analyzer	1
3	pH meter	1
4	EC meter	1
5	Flame photometer	1

6	Physical Balance	1
7	Digital balance	1
8	Mechanical shaker	1
9	MRIDAPARIKSHAK	2

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			
-	654	654	1560		3270

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	Exhibition , Exposure to various models of IFS unit giving stress to natural farming demo unit, farmers felicitated	150	5	1. Dr Sidheswar Baliram Bondar, Collector cum DM 2. Sri Prafulla Ku Samal, MLA, Bhandaripokhari 3. Sri Prafulla Ku Jena, President, Zilla Parishad 4. Srimati Abanti Das, Chairman, Tihidi Panchayat Samiti 5. Sri Narayan Upadhyay, CDAO, Bhadrak	50	120

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

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

3.13. Technology week celebration

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

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

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
14.02.23	Dr. MunindraSarma, Alt Nodal Officer, OPIU-Agri, APART, Assam	Visit to KVK
02.03.2023	Sri Pratap Pritimaya, CDO, Zilla Parishad	Visit to demo units of KVK
21.03.2023	Sri Pratap Pritimaya, CDO, Zilla Parishad	Guest of Natural farming fair
21.03.2023	Sri Prafulla Kumar Jena, President, Zilla Parisha	Chief guest of Natural farming fair
08.04.23	Prof. Pravat Roul, Vice Chancellor, OUAT, Bhubaneswar	Visit to KVK
07.10.23	Dr Prashant Ku. Dash, Pricipal Scientist, PIPB, New Delhi	Visit to KVK & Attended Kisan mela cum exhibition at Kuanrda
07.10.23	Dr Amaresh Nayak, Director, NRRI, Cuttack	Visit to KVK & Attended Kisan mela cum exhibition at Kuanrda
05.12.23	Dr Sidheswar Baliram Bondar, Collector cum DM	Visit to KVK for celebration of World Soil Day as Chief guest
05.12.23	Sri Prafulla Ku Samal, MLA, Bhandaripokhari	Visit to KVK for celebration of World Soil Day
05.12.23	Sri Prafulla Ku Jena, President, Zilla Parishad	Visit to KVK for celebration of World Soil Day
05.12.23	Srimati Abanti Das, Chairman, Tihidi Panchayat Samiti	Visit to KVK for celebration of World Soil Day
05.12.23	Sri Narayan Upadhyay, CDAO, Bhadrak	Visit to KVK for celebration of World Soil Day
09.01.24	Dr A Halder, Principal Scientist, ATARI, Kolkata	Attended 20 th SAC
09.01.24	Dr A Khuntia, JD Monitoring, DEE, OUAT, Bhubaneswar	Attended 20 th SAC
20.03.24	Prof. Pravat Roul, Vice Chancellor, OUAT, Bhubaneswar	Visit to KVK

4. IMPACT

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

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

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread

Give information in the same format as given below

Name of farmer	
Address	
Contact details (Phone, mobile, email Id)	
Landholding (in ha.)	
Name and description of the farm/ enterprise	
Economic impact	
Social impact	
Environmental impact	
Horizontal/ Vertical spread	
Good quality photographs (2-3)	

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

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

4.4. Details of innovations recorded by the KVK

Thematic area	
Name of the Innovation	
Details of Innovator	
Back ground of innovation	
Technology details	
Practical utility of innovation	

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	
Name & complete address of the entrepreneur	
Role of KVK with quantitative data support:	
Timeline of the entrepreneurship development	

Technical Components of the Enterprise	
Status of entrepreneur before and after the enterprise	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	
Horizontal spread of enterprise	

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
CSISA, Bhubaneswar	Financial and technical support for conducting experiments
Agriculture Department	Convergence of Govt schemes with KVK programs, Providing technical support,
Government of Odisha	Financial support for conduct of demonstration for rice fallow management

5.2. List of special programmes undertaken during 2023 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development

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

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

Name of the programme/ scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
FPO meet	Capacity building of CEOs and BoDs of FPOs for FPO management and business activity	28 February 2023	NABARD	14500

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

[illegible]

7.									
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Rice	June, 23	Nov.,2023	2	MTU 1156	F	39.8	5,50,000	144434.2	
Rice	June, 23	Dec., 2023	3	MTU 1140	F	88		313456	
Rice	June, 23	Dec., 2023	3	Kalachmpa	F	80		284960	
Rice	June, 23	Dec., 2023	3	CR 1009 Sub 1	F	71		252902	
Toria	Dec., 23	Mar., 2024	3	Sushree	CS	5.5	38,000	47987	

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	4072	1500/- per q	61080	
2.	Vermi culture	14	500/- per Kg	7000	

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.							
2.							
3.							

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
Feb., 24	40	2	
Mar, 24	80	2	
Total :			

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed:

No. of staff quarters:

Date of completion:

Occupancy details:

Months	Q I	Q II	Q III	Q IV	Q V	Q VI

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Contingency Account	SBI	Bhadrak	11403397791
Revolving fund account	SBI	Charampa	30530545584
Pulse Seed Hub account	SBI	Charampa	36055571236

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 1 st April 2023
	Kharif	Rabi	Kharif	Rabi	
CFLD Pulse		0.9		0.9	0

2019.5. Utilization of KVK funds during the year 2023-24 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	132.93	132.93	135.57
2	Traveling allowances	1.50	1.34	1.34
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter			
B	POL, repair of vehicles, tractor and equipments	3.60	3.60	3.60
C	Meals/ refreshment for training			
D	Training materials	2.70	2.70	2.70

<i>E</i>	Frontline demonstration	1.35	1.35	1.35
<i>F</i>	On Farm Testing	1.35	1.35	1.35
<i>G</i>	SCSP	15.00	15.00	15.00
<i>H</i>	Additional Grant	1.00	1.00	1.00
<i>I</i>				
<i>J</i>	Swachhta Expenditure	0.34	0.34	0.34
TOTAL (A)		159.77	159.61	162.25
B. Non-Recurring Contingencies				
1	Equipments and Furniture	1.00	1.00	1.00
2	Library	0.10	0.10	0.10
3				
4				
TOTAL (B)		1.10	1.10	1.10
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		160.87	160.71	163.35

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2019-20	352354	1120175	613118+600000 (Refunded to DEE)=1213118	259411
2020-21	259411	920945	738591	441765
2021-22	441765	1293287	506523+600000 (Refunded to DEE)=1106523	628529
2022-23	628529	2194055	1421851+600000 (Refunded to DEE)=2021851	1064257
2023-24	1064257	2449390	2125514+600000 (Refunded to DEE) = 2725514	788133

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 activity	Season	With line department	With ATMA	With both

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
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8.2. Prevalent diseases in Livestock/Fishery

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

9.1. Nehru 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	2	264000
Livestock	4	528000
Fishery	14	1848000
Weather	4	528000
Marketing	4	528000
Awareness	6	792000
Training information	8	1056000
Other	2	264000
Total	44	5808000

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	
2.	No. of farmers registered in the portal	
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	
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9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
27.10.23	Cleaning of Office campua
02.11.23	Vermicomposting by using agril. Wastes
20.12.23	Planting of coconut, mango plants for beautification
02.01.24	Cleaning of IFS unit

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	5	800
2. Basic maintenance	8	310
3. Sanitation and SBM	5	1000
4. Cleaning and beautification of surrounding areas	10	1000
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	25	28050
6. Used water for agriculture/ horticulture application		
7. Swachhta Awareness at local level	2	2320
8. Swachhta Workshops		
9. Swachhta Pledge		
10. Display and Banner	1	520
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)	50	-
14. No of Staff members involved in the activities	14	-
15. No of VIP/VVIPs involved in the activities	7	-
16. Any other specific activity (in details)		
Total		34000/-

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

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 Door Darsan (Yes/ No)	Coverage by other channels (Number)
				MLAs Attended the programme	Chairman ZilaPan chatayat	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.	Plantation of bael, coconut & mango plants	10	300	2	Dr Amaresh Ku Nayak, Director , NRRI, Cuttack Dr Prashant Ku. Dash, Principal Scientist, ICAR, NIPB, New Delhi

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	1	3	30	2	Sj. RameshChandra Mohapatra Sj. Sushaban Sukla Sj. Kailash Chandra Sukla

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

9.13. Revenue generation

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

9.14. Resource Generation:

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

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							
Sl.No.	Item/Activity		Units	Targets/Achievements		No. of Beneficiaries	
				Annual Targets	Achievements	Annual Targets	Achievements
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 amendements (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.				
			(Man-months)				
8	Employment generation for livelihood						
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	Achievements	Annual Targets	Achievements
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.				
	Front Line Demonstrations (FLDs) and other demonstrations						
3			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 SCSP in 2023-24 (Rs. In lakh): 15.0 lakhs

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	
Azolla in rice	1	15	0.5					9	6	9	6	15	For improving soil fertility
Horticultural production through land embarkment development	1	20	4					12	18	12	18	30	Income generation under flood affected situation
Poly mulching in vegetables	1	10	0.3					5	5	5	5	10	For moisture conservation and weed control

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		
Direct seeded rice var-Swarna-sub-1 and CR-1009 sub-1	7					26	14	26	14	40	Low cost climate resilient technology under flood affected situation	
Community nursery in rice	5					10	15	10	15	25	For uniform and timely planting	
Rice fallow management with blackgram	10					15	15	15	15	30	Utilization of residual soil moisture	
IPM practices in summer rice	5					10	10	10	10	20	To reduce pest attack in summer rice crop	
IPM in cabbage	0.5					10	15	10	15	25	To reduce pest incidence in cabbage	
Mushroom production technology	NA					10	30	10	30	40	For income generation	
Marigold cultivation as a income generation activity	0.5					20	20	20	20	40	For income generation	
Tuber bank(Elephant foot yam)	1					15	15	15	15	30	For income generation	

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	
Backyard poultry with rainbow rooster bird	1000	50	NA					20	30	20	30	50	For income generation
Hybrid Napier	50	1	0.5					30	20	30	20	50	For income generation

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 center	1	10					60	40	60	40	100	Accessibility to farm equipment easily with affordable prices, cost minimization

Capacity building

Thematic area	No of Courses	No of beneficiaries									
		SC	ST	Other				Total			
		M	F	M	F	M	F	M	F	M	T
IPM in Sugarcane for early shoot borer & Red rot in sugarcane	1					15	15	15	15	30	
Integrated pest management in chilli	1					12	18	12	18	30	
Mushroom production technology	1					10	20	10	20	30	
Climate resilient and smart agriculture	1					15	15	15	15	30	
Rainwater harvesting and its efficient use	1					13	17	13	17	30	
Climate resilient technologies in horticultural crops	1					14	16	14	16	30	

Extension activities

Thematic area	No of activities	No of beneficiaries									
		SC		ST		Other			Total		
		M	F	M	F	M	F	M	F	T	
PRA survey	1					30	20	30	20	50	
Mission LiFE awareness programmes	3					40	50	40	50	90	
VCRMC meeting	7					100	110	100	110	210	
Group discussion	2					20	30	20	30	50	
Scientist field visit	15					150	170	150	170	320	
Method demonstration	2					30	30	30	30	60	

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 Farmers Award	Sri Deepak Swain	2023	KVK, Bhadrak	-	Best farmer in fish production
2	Best Farmers Award	Sri Purna Chandra Majhi	2023	KVK, Bhadrak	-	Best farmer in fish production
3	FPO	Akhimuthi FPO, Sri Pradeep Sahoo	2023	OUAT, Bhubaneswar	-	Best FPO

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 of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
1	Jagabandhu Farmers Producer Company Ltd, 2021			Integrated Farming (Vegetable, Floriculture, Poultry, Goatary, Fisheries)	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	771		
2	Chandabali Farmers Producer Company Ltd, 2018			Lilabati Rice, Poultry, Vegetable	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	557		
3	Akhandalmani Farmers Producer Company Ltd, 2021			Vegetable, Jersey, Milk	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	567		
4	Akhimuthi Agro Producer Company Ltd, 2018			Sunflower, Mustard, its Oil, Spices & Vegetable, Blackgram, Green Gram, Vermicompost & Paddy, Input supply of Paddy seeds	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	600		
5	Pirahat Farmers Producer Company Ltd, 2018			Prawn, Scented Rice	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	1000		
6	Kuteswar Farmers Producer Company Limited, 2020			Vegetable, Mushroom, Integrated farming and Poultry	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	610		
7	Baba Swopneswar Farmers Producer Company Limited, 2020			Mushroom, Pulses, Readymade Garment and CFL Bulb	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	501		
8	Astha Sri Jagannath			Marketing and input Supply	Paddy, Fish, Vegetable,	760		

	Producer Company Limited, 2015			of Mushroom, Honey, Paddy, Pulses, Oilseed, Mustard Oil, Pesticide, Fertiliser, Banana, Organic Manure	Mushroom, Mustard, Sunflower oil, vermicompost			
9	Sambhaban a Farmers Producer Company Limited, 2020			Marketing and input Supply of Vegetable, Paddy, Sunflower, Tender Coconut and Pulses	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	410		
10	Jagadish Bose Farmers Producer Company Limited, 2020			Marketing and input Supply of Vegetable, Paddy, Organic Manure	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	390		
11	Kalathakura Farmers Producer Organisation, 2022			Value addition and marketing of Blackgram, Greengram	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	625		
12	Utkal FPCL, 2021			As new Fpo, they are mobilising of members	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	110		
13	Bajarangi FPCL, 2021			Marketing and input supply Rice, Fishery	Paddy, Fish, Vegetable, Mushroom, Mustard, Sunflower oil, vermicompost	325		

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

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					
2					

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		

(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 mainstreaming 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
1	District level project Launching Workshop for FPOs	12/03/2024	KVK , campus	To aware about Management and Income empowerment.	121

24. Good quality action photographs of overall achievements of KVK during the year (best 10)



F/FW trg in IPM in rice



F/FW trg in Bio-intensive pest management in brinjal



F/FW trg in IPM in bittergourd



F/FW trg in IPM in sunflower



F/FW trg in IPM in rice



IS trg of pesticide dealers