Annual Progress Report 2022

KrishiVigyan Kendra, Kendrapara

ICAR-ATARI, Kolkata, Zone-V

Odisha University of Agriculture and Technology, Bhubaneswar

ANNUAL REPORT 2022 (January-December 2022)

1. GENERAL INFORMATION ABOUT THE KVK

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

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

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

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

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Surya Narayana Mishra		9437982254	suryakrishna4422@gmail.com

1.4. Year of sanction of KVK: 1994

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

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent/ Temporary	Category (SC/ST/ OBC/Others)
1	Senior Scientist& Head	Dr. Surya Narayan Mishra	Senior Scientist and Head	Pl. Protection	79,800-2,11,500 (87,200)	8.9.2017	Contractual	Others
2	Subject Matter Specialist	Namita Mahapatra	Scientist (Home Science)	Home Sc.	57,700-1,82,400 (79,800)	28.10.2011	Contractual	Others
3	Subject Matter Specialist	Prabhanjan Mishra	Scientist (Horticulture)	Horticulture	15,600-39,100 + AGP 6000 (22,220)	21.11.2018	Contractual	Others
4	Subject Matter Specialist	Dr. Tapas RanjanSahoo	SMS (Agronomy)	Agronomy	56,100-1,77,500 (61300)	21.11.2018	Contractual	OBC
5	Subject Matter Specialist	Manas Ranjan Behera	SMS (Fishery Sc.)	Fishery Sc.	56,100-1,77,500 (61300)	3.6.2021	Contractual	OBC
6	Subject Matter Specialist	-	-	-	-	-	-	-
7	Subject Matter Specialist	-	-	-	-	-	-	-
8	Programme Assistant	Pravat Kumar Sahoo	Prog. Assistant (Agril.)	Soil Sc.	35,400-1,12,400 (46,200)	4.1.2016	Contractual	OBC
9	Computer Programmer	Prasant Kumar Sahoo	Prog. Asst.(Computer)	Computer Sc.	35,400-1,12,400 (60,400)	3.6.2021	Contractual	OBC
10	Farm Manager	Rajesha Kumar Mohapatra	Farm Manager	Agronomy	35,400-1,12,400 (38,700)	1.2.2019	Contractual	Others
11	Accountant / Superintendent	-	-	-	-		-	-
12	Stenographer	Kishore Chandra Das	Jr. Steno-cum-Comp. Operator	-	25,500-81,100 (39,800)	23.12.2013	Contractual	Others
13.	Driver	Birendra Kumar Parida	Driver-cum-Mechanic	-	19,900-63,200 (23,800)	4.6.2021	Contractual	Others
14.	Driver	Anirudha Gochhayat	Driver-cum-Mechanic	-	19,900-63,200 (26,800)	7.7.2014	Contractual	SC
15.	Supporting staff	Bansidhar Parida	Peon-cum-Watchman	-	16,600-52,400 (24,300)	30.6.2014	Contractual	Others
16.	Supporting staff	Krushna Chandra Bhujabal	Peon-cum-watchman	-	16,600-52,400 (22,900)	29.7.2008	Contractual	Others

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.5
2.	Under Demonstration Units	1.5
3.	Under Crops	5
4.	Orchard/Agro-forestry	2.5
5.	Others with details	1.5
	Total	**12**

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					✓	552	Yes	ICAR
2.	Farmers Hostel					✓	305	Yes	ICAR
3.	Staff Quarters (6)					✓	265	Yes	ICAR
4.	Piggery unit					✓		Yes	ICAR
5	Fencing								
6	Rain Water harvesting structure								
7	Threshing floor					✓		Yes	ICAR
8	Farm godown					✓		Yes	ICAR
9.	Dairy unit								
10.	Poultry unit					✓		Yes	ICAR
11.	Goatary unit					✓		Yes	ICAR
12.	Mushroom Lab					✓		Yes	ICAR
13.	Mushroom production unit					✓		Yes	ICAR
14.	Shade house					✓		Yes	ICAR
15.	Soil test Lab					✓		Yes	ICAR
16	Others, Please Specify								

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Mahindra Bolero DI 2WD OR02BR6228	2011	460534	192405	Condemned
Hero Honda Super Splendor OR 04G4022	2007	42782	57773	15 years old may be condemned
Bolero	2023	900000	-	Yet to be delivered

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Flame Photometer	2005	0.66	Bad	ICAR
BOD incubator	2005	1.42	Bad	ICAR
Automatic Nitrogen estimation system (Kelp) analyser	2005	3.57	Bad	ICAR
Hot air oven	2005	0.11	Good	ICAR
pH meter	2005	0.10	Bad	ICAR
EC meter				
Micro Processor (PH) Meter	2005	0.102	Needs major repair	ICAR
Conductivity meter	2005	0.102	Needs major repair	ICAR
Refrigerator	2005	0.092	Needs major repair	ICAR
Electronic top balance	2005	0.95	Needs major repair	ICAR
Physical Balance	2005	0.045	Needs major repair	ICAR
Bouyous Hydrometer	2005	0.065	Needs major repair	ICAR
Mechanical stirrer	2005	0.082	Needs major repair	ICAR
Colony counter	2005	0.045	Needs major repair	ICAR
Plant sample grinder	2005	0.08	Needs major repair	ICAR
Hot water bath	2005	0.04	Needs major repair	ICAR
Horizontal Shaker	2005	0.11	Needs major repair	ICAR
Distil water unit	2005	0.072	Needs major repair	ICAR
Hot air oven	2005	0.105	Needs major repair	ICAR
Laboratory centrifuge	2005	0.09	Needs major repair	ICAR
Bod incubator	2005	1.420	Needs major repair	ICAR
Hot plate	2005	0.025	Needs major repair	ICAR
Spectro photometer	2005	0.301	Needs major repair	ICAR
Flame photometer	2005	0.352	Needs major repair	ICAR
Kelplus	2005	0.45	Needs major repair	ICAR
MridaParikshyak	2017	0.90	Functional	ICAR
Mini Lab	2019	1.24	Functional	ICAR
b. Farm machinery				
Tractor	2019	700000	Good	ICAR
c. AV Aids				
LCD Projector	2006-07		Spares are not available	ICAR
Digital camera	2009, 2015-16	27000	1 camera in working condition	ICAR
LED TV	2017-18	28000	Working	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Cage Wheel	2020	7,000	Good	ICAR

1.8. Details SAC meeting* conducted in the year

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	23.11.2022	30	Detail information on location, no. of beneficiary and area may be mentioned in the action taken report.	These detail information have already been included in Action taken report.	
			More focus should be given on organic and natural farming	Two nos. of farmers and farm women training programmes were conducted on organic farming at Korua, Kendrapara and Khulari, Rajkanika with 25 no of participants each. One Demonstration on Natural farming is continuing at Sanamangarajpur, Kendrapara with 4 nos. of Farmers. One farmers' fair cum exhibition for natural farming was conducted at KVK, Kendrapara on 26.04.2022 with 300 nos. of participants.	
			Interventions may be taken to solve weed problem in rice	One OFT is continuing in chemical weed management in direct seeded rice at Nilaknthapur and Ender with 7 no of beneficiary in 1 ha area. One FLD is continuing in chemical weed management in transplanted rice at Gandakula with 10 no of beneficiary in 2 ha area.	
			Jute crop may be given more focus with respect to technological interventions.	One FLD is continuing in chemical weed management in Jute at Gajapitha, Ragunathpur, Marshaghai with 10 no of beneficiary in 2 ha area. One 4days Training programme was conducted on value addition in jute fibre at KVK Campus with 25 nos. of participants.	

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
			Interventions may be taken for management of major pest and diseases in rice.	One OFT is continuing in Sheath blight management in rice at Gandakula and with 7 no of beneficiary in 1 ha area. Joint field conducted with Dept. of A&FE on BPH infestation to Mahakalpara, Kendrapara, Derabish and Pattamundai blocks.	
			Aromatic rice varieties may be promoted.	To be taken in the next year action plan.	
			Suitable variety of spine gourd may be introduced in the district.	One OFT is continuing on naturally pollinated varietal assessment at Gajapitha and Pakhyot with 7 nos. of beneficiary in 0.4 ha area.	
			Trials may be taken to evaluate the performance of grafted vegetables	One FLD is continuing on grafted brinjal variety VNR -212 at Gajapitha, Gandakula and Srirampur with 10 nos. of beneficiary in 0.4 ha area	
			Dragon fruit cultivation may be popularized in the district.	One FLD on dragon fruit cultivation is continuing at Ganakula and Nilakanthapur with 10 no.s of beneficiary in 0.1 ha area. One F & FW training programme was conducted on dragon fruit cultivation at Ender. One Demo. unit is maintained at the instructional farm of KVK for QPM production.	
			Initiative may be taken for pond water quality management	One OFT is continuing on application of Soil and water probiotics at village Gandakula and Tarando with 07 no.s of beneficiaries in 1.4 ha water area	

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
			Biofloc system of pisciculture need to be popularised.	One F&FW training programme was conducted on Biofloc pisciculture technology at Ender with 25 nos. of participants. Visited different Biofloc units of Pattamundai, Kendrapara, Rajkanika and Derabish blocks of the district and suggested better management practices. One FLD on Biofloc pisciculture technique is to be conducted during Rabi this year	
			New species of fish may be incorporated in Pisciculture	One FLD on intercropping of Java Punti with IMC at village Baro and Gandakula with 10 nos. of beneficiaries in 2 ha water area and another FLD on Improved Catla at village Gajapitha and Gandakula with 10 nos. of beneficiaries in 2 ha water area is going on. One OFT on growth performance of Amur carp in polyculture at village Ghigidia and Dosia with 07 no of beneficiaries in 1.4 ha water area	
			Interventions may be taken to earn more from poultry component in backyard.	One OFT on preparation of low cost poultry feed is continuing at Gandakula with 10 nos. farmwomen.	
			Value added products from oyster mushroom may be popularized.	To be conducted in Rabi 2022-23.	

** 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 (2022)

Sl. no.	Item	Information
1	Major Farming system/enterprise	Rice-Fallow, Rice-Pulse, Rice-Pulse-Vegetable, Rice-Vegetable, Vegetable-Vegetable
2	Agro-climatic Zone	East & South-East Costal Plane Zone
3	Agro ecological situation	Coastal Irrigated alluvium (AES-1) Rainfed alluvium (AES-2) Coastal alluvial saline (AES-3) Coastal waterlogged (AES-4)
4	Soil type	Alluvial (Sandy loam) Saline Black Soil clay loam
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Rice, Greengram, Blackgram & Groundnut
6	Mean yearly temperature, rainfall, humidity of the district	26.8^0 1501.3 mm 78.5 %
7	Production of major livestock products like milk, egg, meat etc.	Fish

Category	Population	Production
Cattle		
Crossbred	29400	31000 MT/ year (milk)
Indigenous	188728	
Buffalo	31735	
Sheep		
Crossbred	43367	324 MT/ year (meat)
Indigenous		
Goats	104474	
Pigs		
Crossbred	9231	
Indigenous		
Rabbits		
Poultry		
Hens	301564	27 million eggs/ year
Desi		
Improved		
Ducks	94200	
Turkey and others		

Note: Please give recent data only

2.b. Details of operational area / villages (2022)

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1	Kendrapara	Marshaghai	Gajapitha	Rice, greengram , blackgram, groundnut, jute, mustard, brinjal, okra, tomato, cabbage, cauliflower, mushroom, poultry, apiary	Low yield in rice	IWM, INM, IPM, ICM
2		Patamundai	Gandakula		Low yield in pulses under rice fallow	INM, IPM, IWM
3		Mahakalpada	Itakandia		Low yield in groundnut due to weed	IWM
4		Derabish	Nilakanthapur		Low yield in vegetable	IPM, INM,
5		Rajnagar	Badakota		Low income from mushroom	Value addition
6		Derabish	Ender		Low body weight of backyard poultry	Health management, breed
7		Marshaghai	Raghunathpur			

2. c. Details of village adoption programme:
Name of the villages adopted by PC and SMS (2022) for its development and action plan

Name of village	Block	Action taken for development
-	-	-

2.1. Priority thrust areas

S. No	Thrust area
1.	Management of acid and saline soil.
2.	Management of water logged area
3.	Varietal substitution of major crops
4.	INM,IWM and IPM of major crops
5.	Value addition of tomato, milk and jute
6.	Introduction of small scale remunerative enterprises
7.	Drudgery reduction of farm women
8.	Breed up gradation in livestocks
9.	Introduction of improved poultry variety
10.	Fish health management
11	Integrated fish farming
12	Fish preservation and value addition
13	Feeding management in carp culture
14	Ornamental fish breeding and culture
15	Biofloc fish production
16	Fingerlings and yearlings production

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
10	10	70	-	1	4	1	40	24	44	26	70	24	24	240	2	2	26	7	128	75	156	84	240

Training												Extension activities										
Number of Courses		Number of Participants										Number of activities		Number of participants								
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement							
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
94	94	2115	122	38	15	4	994	942	1131	984	21115	500	471	12000	127	56	12	-	7137	3770	7276	3782	11268

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

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
200	222.4	0.31	0.33882

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
0.25	0.25	0.003	0.0026

** 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	1	-	1	11.45	-	-	-
Seminar/ conference/ symposia papers							
Books							
Bulletins							
News letter							
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature	6	3000	-	-	-	-	-
Technical reports							
Electronic Publication (CD/DVD etc)							
TOTAL							

1. Achievements on technologies assessed and refined

OFT-1

1.	Title of On Farm Trial	**Assessment of IWM in Direct seeded rice**
2.	Problem diagnosed	Lower yield of rice due to higher weed infestation
3.	Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)	**FP**: One manual weeding at 45 DAS **TO_1**: Application of pyrazosulfuron @ 20 g/ha as pre-emergence stage i.e 0-3 DAS followed by Bispyribac sodium @ 25 g/ha as post-emergence i.e 25 DAS **TO_2**: Application of Pretilachlor followed by Bispyribac sodium (1000ml & 25 g / ha at 2 & 25 DAS)+ 1 Hand weeding at 40 DAS
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on weed management, OUAT, Bhubaneswar 2017
5.	Production system and thematic area	Rice based cropping system, weed management
6.	Performance of the Technology with performance indicators	Application of Pretilachlor followed by Bispyribac sodium (1000ml & 25 g / ha at 2 & 25 DAS)+ 1 Hand weeding at 40 DAS resulted maximum yield (42.6 q/ha) with higher B:C ratio of 1.64.
7.	Final recommendation for micro level situation	Application of both pre and post emergence herbicides along with one hand weeding gives better weed control in DSR
8.	Constraints identified and feedback for research	Untimely rainfall affects the application of post emergence herbicides
9.	Process of farmers participation and their reaction	Farmers have actively participated and happy with technology. Manual weeding may be skipped as it is labour intensive.

Thematic area: IWM

Problem definition: Lower yield of rice due to higher weed infestation

Technology assessed: Application of Pretilachlor followed by Bispyribac sodium (1000ml & 25 g / ha at 2 & 25 DAS) + 1 Hand weeding at 40 DAS

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%) WCE	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7	211	107	22.1	63.8	36.5	45000	67525	22525	1.50
TO_1	7	228	112	22.5	83.7	40.2	46500	74370	27870	1.60
TO_2	7	236	116	22.8	89.3	42.6	48200	78810	30610	1.64

Results: Application of Pretilachlor followed by Bispyribac sodium (1000ml & 25 g / ha at 2 & 25 DAS) + 1 Hand weeding at 40 DAS resulted maximum yield (42.6 q/ha) with higher B:C ratio of 1.64.

OFT-2

1.	Title of On Farm Trial	Assessment of Decomposer for in-situ residue management in Rice
2.	Problem diagnosed	Environmental pollution due to residue burning
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 TO_1: NRRI decomposer @ 1kg /t of straw with 5 kg urea with 0.5 % jaggery solution in 100 litr of cowdung slurry for 1 ha TO_2: PUSA decomposer @ 4 capsules in 25 lit of water with 2 % jaggery solution and pulse powder for 1 ha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	NRRI,2020 & IARI,2018
5.	Production system and thematic area	Rice pulse cropping system, NRM
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	Farmers have actively participated and happy with technology.

Thematic area: INM

Problem definition: Lower yield due to improper nutrient management

Technology assessed:

Table:

Technology option	No. of trials	Yield component			Decomposition %(2 months)	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	Initial organic carbon						
FP	7			0.43	-	-	500	-	-	-
TO_1	7			0.43	30	-	3000	-	-	-
TO_2	7			0.43	65	-	2000	-	-	-

Results: Awaited

OFT-3

1.	Title of On Farm Trial	**Assessment of spine gourd varietiesof Arka Neelachal Shanti and Arka Neelachal Gaurav**
2.	Problem diagnosed	Flower drop leading to low yield
3.	Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)	**FP**: Growing of locally available Varieties **TO_1**: Cultivation of spine gourd variety Arka Neelanchal Shanti **TO_2**: Cultivation of spine gourd variety Arka Neelachal Gaurav
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CHES, Annual report, 2015
5.	Production system and thematic area	Irrigated upland with mulching in trellis system
6.	Performance of the Technology with performance indicators	39 % higher yield
7.	Final recommendation for micro level situation	Cultivation of spine gourd variety Arka Neelachal Shanti
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Farmers have actively participated and happy with technology.

Thematic area: Varietal evaluation

Problem definition:

Technology assessed: Spine gourd variety Arka Neelanchal Shanti

Table:

Treatment	No. of trials	% of fruit set	Days to first fruit	Yield (q/ha)	% increase in yield	BC ratio
FP	7	79	41	93	-	2.59
TO_1	7	87	36	129	39	3.26
TO_2	7	83	39	155	67	3.02

Results:

OFT-4

1.	Title of On Farm Trial	**Assessment of INM in Coconut**
2.	Problem diagnosed	Less number of nuts in Coconut due to improper nutrient management
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**FP**: Only FYM application @20-30 kg/palm **TO_1: :** 50% of RDF (560:320:1200 g/palm) + vermicompost @ 30kg+ Azospirillum @ 200 g+ PSB @ 200 g/palm **TO_2**: 50% of RDF (560:320:1200 g/palm) + Azospirillum @200 g+ PSB @ 200 g/palm FYM 30 kg + Goat Manure 30 kg/palm
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Annual report, CPCRI-2020
5.	Production system and thematic area	Irrigated medium/up land
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	

Thematic area:

Problem definition:

Technology assessed:

Table:

Treatment	No. of trials	Yield (q/ha)	% increase in yield	BC ratio
FP	7	Continuing…		
TO_1	7			
TO_2	7			

Results: Awaited

OFT-5

1.	Title of On Farm Trial	**Assessment of management of sheath blight in rice**
2.	Problem diagnosed	Low yield of rice due to sheath blight
3.	Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)	**FP**: Spraying of copper oxychloride @ 2.5 g/lit **TO_1:** Seed treatment with *Trichoderma viride* @ 10g/ l water and 2-3 sprayings of *Trichoderma viride* @ 10g/ l at 10-15 days interval **TO_2:** Spraying of the combination fungicide Azoxystrobin+ difenconazole @ 1ml/l twice at 15 days interval starting from initiation of the infection
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT,SLREC 2015 & 2018
5.	Production system and thematic area	Rice –pulse, Rainfed medium land
6.	Performance of the Technology with performance indicators	18.42 % higher Yield
7.	Final recommendation for micro level situation	Spraying of the combination fungicide Azoxystrobin+ difenconazole @ 1ml/l twice at 15 days interval starting from initiation of the infection
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Farmers have actively participated and happy with technology.

Thematic area:

Problem definition:

Technology assessed:

Table:

Treatment	No. of trials	Disease incidence (%)	Yield (q/ha)	% increase in yield	BC ratio
FP	7	21.6 %	38		1.43
TO_1	7	7.8 %	43	13.15	1.54
TO_2	7	3.4 %	45	18.42	1.62

Results:

OFT-6

1.	Title of On Farm Trial	**Assessment of IPM strategy for management of YVMV in greengram**
2.	Problem diagnosed	Low yield of green gram due to YVMV
3.	Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)	**FP**: No vector management **TO_1:** Seed treatment with Thiamethoxam 25 WG @ 5g/kg seed followed by installation of yellow sticky trap (YST) 50/ha and spraying of Acetamiprid @ 0.03% twice at 30 days after sowing at 15 days interval **TO_2:** Seed treatment with Imidachloprid 70%WS @ 7gm/kg seed, Installation of yellow sticky trap @12/ha & Need based spraying of B .bassiana @5gm/lt
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT, SLREC proceeding, 2019
5.	Production system and thematic area	Rice – Pulse, Rainfed, medium and lowland
6.	Performance of the Technology with performance indicators	26.19 % higher productivity over FP
7.	Final recommendation for micro level situation	Seed treatment with Thiamethoxam 25 WG @ 5g/kg seed followed by installation of yellow sticky trap (YST) 50/ha and spraying of Acetamiprid @ 0.03% twice at 30 days after sowing at 15 days interval
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Farmers have actively participated and happy with technology.

Thematic area:

Problem definition:

Technology assessed:

Table:

Technology option	No. of trials	Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	23	4.2	19300	29400	10100	1.52
TO_1	7	4	5.3	21500	37100	15600	1.72
TO_2	7	9	4.7	21000	32900	11900	1.56

Results:

OFT-7

1.	Title of On Farm Trial	**Assessment of preparation of low cost poultry feed for higher income**
2.	Problem diagnosed	Low income from colour birds due to high cost of commercial feed
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**FP**: Use of commercial feed **TO_1:** Addition ground maize 35%, GNOC 22%, Fish meal 10%, wheat barn 20%, broken rice 10%, dicalcium phosphate 1%, aminoacids 1.6%, salt 0.4% **TO_2:** Addition ground maize 30%, GNOC 22%, Fish meal 10%, wheat barn 15%, broken rice 20%, dicalcium phosphate 1%, aminoacids 1.6%, salt 0.4%
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-CIWA, 2016
5.	Production system and thematic area	Homestead
6.	Performance of the Technology with performance indicators	24.5 % higher income over FP
7.	Final recommendation for micro level situation	Addition ground maize 30%, GNOC 22%, Fish meal 10%, wheat barn 15%, broken rice 20%, dicalcium phosphate 1%, aminoacids 1.6%, salt 0.4%
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Farmers have actively participated and happy with technology.

Thematic area:

Problem definition:

Technology assessed:

Table:

Treatment	No. of trials	Body Wt. at 3 months (kg)	Gross return	Cost of feed	Net return	BC ratio
FP	7	2.3	Rs.345/-	Rs.116.10	Rs.228.90	2.97
TO_1	7	2.1	Rs.315/-	Rs.91.80	Rs.223.20	3.43
TO_2	7	2.2	R.330/-	Rs.89.10	Rs.240.90	3.70

Results:

OFT-8

1.	Title of On Farm Trial	**Assessment of value added products of Oyster mushroom**
2.	Problem diagnosed	Low income due to less market demand
3.	Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)	**FP**: Selling of fresh Oyster mushroom **TO_1:** Oyster mushroom powder preparation: Sun drying for three consecutive days until crackling sound comes, storing in air tight container, grinding **TO_2:** Preparation of mushroom soup powder: Fresh mushroom- 125 gm, corn flour 50 gm, milk powder- 25 gm, salt- 08 gm, sugar- 03 gm, black pepper- 02 gm, oregano- 02 gm
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on mushroom, OUAT,2020
5.	Production system and thematic area	Homestead
6.	Performance of the Technology with performance indicators	46.78 % higher income
7.	Final recommendation for micro level situation	Preparation of mushroom soup powder: Fresh mushroom- 125 gm, corn flour 50 gm, milk powder- 25 gm, salt- 08 gm, sugar- 03 gm, black pepper- 02 gm, oregano- 02 gm
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Farmers have actively participated and happy with technology.

Thematic area:

Problem definition:

Technology assessed:

Table:

Treatment	No. of trials	Sensory evaluation			Gross return from 1.5 kg mushroom (Rs.)	Gross Cost (Rs.)	BC ratio
		Colour	Flavour	Texture			
FP	7	-	-	-	105	45	2.33
TO_1	7	6.1	6.3	6.8	480 (0.5 kg)	150	3.20
TO_2	7	7.2	6.5	7.1	720 (0.6 kg)	210	3.42

Results:

OFT-9

1.	Title of On Farm Trial	**Assessment of efficacy of different probiotics on growth performance of carps**
2.	Problem diagnosed	Low fish yield due to disease incidence
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**FP**: Feeding with artificial supplementary feed (GNOC and rice bran at 1:1) and no use of probiotics **TO_1:** Application of Soil probiotics @ 1 kg/Ac-mt water area **TO_2:** Application of Water Probiotics @ 5 Lit/ Ac-mt water area
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	College of Fisheries, OUAT, 2010
5.	Production system and thematic area	Pond based
6.	Performance of the Technology with performance indicators	25.96 % higher yield
7.	Final recommendation for micro level situation	Application of Water Probiotics @ 5 Lit/ Ac-mt water area
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Farmers have actively participated and happy with technology.

Thematic area:

Problem definition:

Technology assessed:

Table:

Treatment	No. of trials	Avg. body wt. of carps (kg)	Yield (q/ha)	% increase in yield	BC ratio
FP	7	-	30.27	-	-
TO_1	7	0.820	36.85	21.73	2.29
TO_2	7	0.855	38.13	25.96	2.32

Results:

OFT-10

1.	Title of On Farm Trial	**Assessment of growth performance of Amur carp in carp polyculture**
2.	Problem diagnosed	Low yield due to slow growth rate of common carp
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**FP**: Stocking of Catla:Rohu:Mrigal = 3:4:3 **TO_1:** Stocking of Catla:Rohu:Mrigal:Amur carp= 3:4:2:1 **TO_2:** Stocking of Catla:Rohu:Mrigal:Amur carp= 3:4:1:2 **TO_3:** Stocking of Catla:Rohu:Amur carp= 3:4:3
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	UAS, Bangalore, 2015
5.	Production system and thematic area	Pond based
6.	Performance of the Technology with performance indicators	21.12 % higher yield over Farmers practice
7.	Final recommendation for micro level situation	Stocking of Catla:Rohu:Amur carp= 3:4:3
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Farmers have actively participated and happy with technology

Thematic area:

Problem definition:

Technology assessed:

Table:

Treatment	No. of trials	Avg. body wt. of Amur carp (kg)	Plankton density (ml/50 L water)	Yield (q/ha)	% increase in yield	BC ratio
FP	7	-	-	29.82	-	
TO_1	7	0.730	1.8	34.36	15.22	2.21
TO_2	7	0.745	1.7	34.95	17.20	2.38
TO_3	7	0.760	2.0	36.12	21.12	2.42

Results:

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Rice	IWM	Post-emergence application of Bispyribac-Sodium @ 20 g/ ha + Almix (Metsulfuron methyl 10%+ Chlorimuron ethyl 10%) @ 4 g/ ha at 25 DAT	2	2	2	1	0	0	6	1	8	2	10	
2.	Rice	INM	STBFR (NPK) + 5t FYM /ha + Zn @ 2.5 kg/ha	2	2	1	1	0	0	6	2	7	3	10	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P_2O_5	K_2O					
Rice	Kharif	Rainfed	Clay loam	132	12.5	248	Greengram	14.7.2022	28.11.2022	1104.2	86
Rice	Kharif	Rainfed	Clay loam	146	13.2	262	Greengram	21.7.2022	04.12.2022	1104.2	86

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

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Groundnut	IWM	Pre-emergence application of pendimethalin 30%+ imazethyper 2%@ 1.0 kg/ha ready mix fb post emergence application of quizalfop-p-ethyl @50g/ha at 20 DAS	10	2	20.4	17.8	14.6	54800	102000	47200	1.86	51500	89000	37500	1.73
Groundnut	IDM	Seed treatment with carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/ kg seeds during sowing and need base alternative spraying of chlorothalonil 75% wp (Kavach) @ 1.5 gm/lt. and carbendazim 2 gm/lt at 15 days interval	10	2	21.3	18.2	17.1	56900	106500	49600	1.87	52000	91000	39000	1.75
Total															

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

Pulses

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Greengram	INM	Application of 75% STBFR + Foliar application of WSF (18:18:18) @ 2% at 25 and 40 DAS	10	2	5.3	4.7	12.7	21500	37100	15600	1.72	20200	32900	12700	1.63
Greengram	INM	Soil test based NPK with FYM @ 5 t/ha and seed inoculation with Rhizobium @ 20g/kg seed and treatment with ammonium molybdate @ 10 g /25 kg of seed	10	2	5.2	4.7	10.6	20100	36400	16300	1.81	19500	32900	13400	1.68
	Total														

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

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Jute	IWM	Pre emergence application of Pretilachlor @1.5 kg/ha + one hand weeding at 25 DAS	10	2	24.8	21.4	15.8	WCE (%): 72	86	72400	133920	61520	1.85	67200	115560	48360	1.72

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
Brinjal	Varietal evaluation	Grafted brinjal cultivation (grafted brinjal Var. VNR 212)	10	0.4	447.3	323.6	38.0			127800	357840	230040	2.8	102700	258880	156180	2.52
Dragon fruit		Cultivation of dragon fruit (Planting geometry 3m. x 3 m. Pit size 60x60x60 cm3)	10	0.1	Cont…												
Banana		Macro propagation method in Banana Variety Bantala (From single rhizome through macro propagation 40- 45 suckers produce over a period of 4-5 months)	10	2.0	Cont…												

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
Tomato	Varietal evaluation	Demonstration on cultivation of multiple disease resistant tomato variety Arka Abhed (Leaf curl virus, Early blight, Late blight and bacterial wilt)	10	2	513	425	21			121600	307800	186200	2.53	116400	255000	138600	2.19
Brinjal	IDM	Seed treatment with metalaxyl + mancozeb MZ 72 @ 2 g/kg followed by soil application of carbofuran 3G @ 1 kg a.i./ha at planting and soil drenching of carbendazim 0.15% + streptocycline 0.015%	10	1	243	208	16.8	Infestation %: 4.26	31.6	82300	194400	112100	2.36	79200	166400	87200	2.10

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
Chilli	IPM	Seed treatment with Imidachloprid 600FS @ 5ml /kg seed, Yellow sticky trap (50/ha),Blue sticky trap 50/ha) and need base alternate spraying of spiromesifen 22.9%SC @ 1 ml/ l and Acetamiprid 25 % SP @ 0.2 g./lit. of water	10	0.4	121	102	18.62	Infestation %: 3.4	18.4	88500	181500	93000	2.05	80500	153000	72500	1.90
Jute	IPM	Spraying of Spiromesifen 240SC 0.7ml/lit at 35 and 50 DAS	10	1	23.8	20.6	15.5	Infestation % 6.2	16.5	69000	128520	59520	1.86	65000	111240	46240	1.71
Cauliflower	INM	Two foliar spray of Borax @ 0.25% at 10 days interval starting from 30 days after sowing	10	0.4	477	405	17.7			132000	381600	249600	2.89	126500	324000	197500	2.56

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
Tomato	INM	Foliar spray of Arka Vegetable Micronutrient Formulation @20g/litre after flowering (Contains most of the Micronutrients Such as Zn, B, Fe, Cu, Mn, Mo, Cl and the Secondary Nutrients Such as Ca, Mg, S and can be mixed with any fungicide or insecticide for spraying)	10	0.4	322	280	15	-	-	104700	257600	152900	2.46	101300	224000	122700	2.21
	Total																

Livestock

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

Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
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(Yield q/ha)**		**% change in major parameter**	**Other parameter**		***Economics of demonstration (Rs.)**				***Economics of check (Rs.)**			
					Demonstration	**Check**		**Demonstration**	**Check**	**Gross Cost**	**Gross Return**	**Net Return**	**** BCR**	**Gross Cost**	**Gross Return**	**Net Return**	**** BCR**
Common carps																	
Mussels																	
Java Punti		Incorporation of Java Punti with IMC i.e. stocking of Catla:Rohu:Mrigal:Java Punti::3:4:3:2 @ 12000 nos/ha	10	2	39.76	31.65	24.84			161600	397600	236000	2.46	140600	316500	175900	2.25

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters(Yield q/ha)		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Tilapia		Stocking of 800 numbers of GIFT Tilapia fingerlings in a Biofloc culture tank of 10 ton capacity with addition of 2-3 litres of Fermented Carbon Organic (FCO) on daily basis	10	2	38.4	27.8	38.12			107400	307200	199800	2.86	95800	222400	126600	2.32
Fish		Incorporation of GI Catla in composite carp culture with species ratio of GI Catla: Rohu: Mrigal:: 3:4:3 @ 10000 nos/ha	10	2	38.96	32.7	19.14			158300	389600	231300	2.46	145300	327000	181700	2.25

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters(Yield q/ha)		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Fish		Application of Paracure IV (Ivermectin 2 % w/w) @ 250 gm/ 1 ton traditional fish feed @ 5-3 % of body weight daily for 4 days to control Argulosis	10	2	37.68	28.52	32.11			170500	376800	206300	2.21	163900	285200	121300	1.74
Ornamental fishes																	
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*

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Milky mushroom	Milky mushroom cultivation with casing on top of the bed using crumpled straw	10	10	1.2 kg/bed	-				40	120	80	3.0	-	-	-	-
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Value addition	Preparation of tomato Ketchup: after extraction of pulp from tomato and addition of spices, salt and sodium benzoate	10	10	-	-	-	-	-	170	520	350	3.06	27.50	60.00	32.50	2.18
Value addition	Preparation of coloured fibre (belched dry fibre soak in 1 lit warm water + 50 gram fabric colour)	10	10	-	-	-	-	-	5600	9500	3900	2.11	3000	5000	2000	1.66
Total																

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

Women empowerment

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

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)	Cost reduction (Rs./ha or Rs./Unit)
					Demons ration	Check			
Grain cleaner	Rice	Use of Hanging type grain cleaner with capacity 225 kg. hour for cleaning of rice grains	10	10	170 kg	24 kg	63	40.5	

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

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (Pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (Pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (Pl.specify)										
Total										
Commercial crops										
Cotton										
Coconut										
Others (Pl.specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl.specify)										
Total										

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	17.10.2022 16.11.2022 25.11.2022 12.12.2022 19.12.2022 23.12.2022 9.03.2023 25.03.2023	8	800	-
2.	Farmers Training				
3.	Media coverage				
4.	Training for extension functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2022 and Rabi 2022-2023:

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	Mustard	Local	5.2	-	-	680	Line sowing of PUSA M 28 variety with seed treatment of carboxin 37.5 % + thiram 37.5 % @ 2 g/kg of seed with pre emergence application of herbicide pendimethalin for control of weed, Control of powdery mildew and other fungal disease by application of metalaxyl + mancozeb @ 2g/lit of water and control of siliqua borer through application of emamectin benzoate @0.4g/lit and sucking pest through application of thiomethoxam @ 5g/15 l of water. Foliar nutrition of NPK @ 2% spray was given at pre flowering and pod development stage.	25	10	7.6	6.2	6.8	-	-	17.64

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
2	Blackgram	Local Blackgram	4.6	-	-	290	Improved management practices of Blackgram Variety PU-31(C) @ 20 kg/ha, Soil test based fertilizer application, seed Inoculation with 20gm Rhizobium /kg of seed, Line sowing and need based plant protection measures.	25	10	6.4	5.3	5.85	-	-	43.10

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	Improved management practices of Blackgram Variety PU-31(C)IPM 02-3(F)@ 20 kg/ha, Soil test based fertilizer application , seed Inoculation with 20gm Rhizobium /kg of seed , Line sowing and need based plant protection measures.	21000	32200	11200	1.53	23500	40950	17450	1.74

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	Improved management practices of Blackgram Variety PU-31(C)@ 20 kg/ha, Soil test based fertilizer application , seed Inoculation with 20gm Rhizobium /kg of seed , Line sowing and need based plant protection measures.	585	250	7000	40	330	For day today need	6

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	Improved management practices of BlackgramVariety PU-31(C) @ 20 kg/ha, Soil test based fertilizer application , seed Inoculation with 20gm Rhizobium /kg of seed , Line sowing and need based plant protection measures.	Yes	Yes	Yes	Less market demand by trader	Yes	Establishment of processing unit for value addition and awareness about line sowing.

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Variety PU-31(C)70-72 days duration. INM & IPM	Improved management practices of Blackgramwith variety PU-31(C) enhance the avg.yield 5.85 Q/ha during Rabi 2022-23.	Resistant to YMV, large seed, Improved management practices of Blackgram with variety PU-31(C) enhance the yield 27 % over farmer practices.	Farmers are satisfied with the variety and technology.

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Field Day	**27.03.2023** at Balia	**50**

Crop	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Mustard	i) Critical input	81000	81000	Nil
	ii) TA/DA/POL etc. for monitoring	4000	4000	Nil
	iii) Extension Activities (Field day)	3750	3750	Nil
	iv) Miscellaneous	1250	1250	Nil
	Total	**90000**	**90000**	**Nil**

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

A) Farmers and farm women (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	1										16	9	25
Resource Conservation Technologies	1										23	2	25
Cropping Systems	1										14	11	25
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management	1										13	12	25
Production of organic inputs	1										14	11	25
Others													
Total													
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops													
Offseason vegetables													
Nursery raising	1										21	04	25
Exotic vegetables	1										16	09	25
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Processing and value addition													
Total (a)													
b) Fruits													
Training and Pruning	1										16	09	25
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards	1										14	11	25
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards	1										13	12	25
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													

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
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology	1										14	11	25
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management	1										19	06	25
Integrated water management													
Integrated Nutrient Management	1										11	14	25
Production and use of organic inputs													
Management of Problematic soils	1										06	19	25
Micro nutrient deficiency in crops	2										38	12	50
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
others													
Total													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													

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
Minimization of nutrient loss in processing													
Processing & cooking													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition	1										0	25	25
Women empowerment													
Location specific drudgery reduction technologies	1										0	25	25
Rural Crafts	1										0	25	25
Women and child care													
Others (Mushroom)	1										0	25	25
Total													
VI. Agril. Engineering													
Farm machinery & its maintenance													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management	2										31	19	50
Integrated Disease Management	2										38	12	50
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total													
VIII. Fisheries													
Integrated fish farming	1										16	09	25
Carp breeding and hatchery management	1										21	04	25
Carp fry and fingerling rearing													
Composite fish culture	1										19	06	25
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes	1										17	08	25
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total													
IX. Production of Input at site													
Seed Production													

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
Planting material production													
Bioagents production													
Biopesticides production													
Biofertilizer production													
Vermicompost production													
Organic manures production													
Production of fry and fingerlings													
Production of Beecolonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL													

B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming													
Seed production	1										12	03	15
Production of organic inputs	1										08	07	15
Planting material production	2										22	08	30
Vermiculture	1												
Mushroom Production													
Beekeeping	1										03	12	15
Sericulture													

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
Repair and maintenance of farm machinery and implements													
Value addition	2										0	30	30
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture	1										06	09	15
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing	1										12	03	15
Others(Soil Sampling & testing)	1										11	04	15
Making & Use of traps	1										09	06	15
Total	**12**										**83**	**82**	**165**

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management	1										08	07	15
Integrated Nutrient management													
INM in Medicinal crops	1										11	04	15
River bed plantation	1										12	03	15
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs	1										0	15	15
Formation and Management of SHGs													
Women and Child care	1										0	15	15
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													

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
Livestock feed and fodder production													
Household food security													
Bee Keeping	1										09	06	15
Natural farming	1										11	04	15
Climate resilient Agriculture	1										08	07	15
Biofloc fish farming	1										09	06	15
Fish health management	1										08	07	15
Total	**10**										**76**	**74**	**150**

D) Farmers and farm women (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	3										58	17	75
Resource Conservation Technologies	1										12	13	25
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management	3										46	29	75
Production of organic inputs													
Others													
Total													
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops	2										36	14	50
Offseason vegetables	1										17	8	25
Nursery raising													
Exotic vegetables	1										19	6	25
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards	1										14	11	25
Plant propagation techniques	1										12	13	25
Others													
Total (b)													
c) Ornamental Plants													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Aquatic crop													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													
Soil fertility management	2										23	27	50
Integrated water management													
Integrated Nutrient Management	1										12	13	25
Production and use of organic inputs													
Management of Problematic soils	1										15	10	25
Micro nutrient deficiency in crops	2										36	14	50
Nutrient Use Efficiency													
Balance Use of fertilizer	1										16	09	25
Soil & water testing	1										14	11	25
others													
Total													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	1										0	25	25
Design and development of low/minimum cost diet	1										0	25	25
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Processing & cooking	1										0	25	25
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition	1										0	25	25
Women empowerment													
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care	1										0	25	25
Others(Mushroom)	3										0	75	75
Total													
VI. Agril. Engineering													
Farm machinery & its maintenance													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management	5										86	39	125
Integrated Disease Management	3										52	23	75
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total													
VIII. Fisheries													
Integrated fish farming	3										46	29	75
Carp breeding and hatchery management	1										16	09	25
Carp fry and fingerling rearing													
Composite fish culture	3										52	23	75

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
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL													

E)RURAL YOUTH (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming													
Seed production													
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping													
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others													
Total													

F) Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													

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
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other													
Total													

G) Consolidated table (ON and OFF Campus)

i. Farmers& Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	4										74	26	100
Resource Conservation Technologies	2										35	15	50
Cropping Systems	1										14	11	25
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management	4										59	41	100
Production of organic inputs	1										14	11	25
Others													
Total													
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops	2										36	14	50
Off0season vegetables	1										17	8	25
Nursery raising	1										21	4	25
Exotic vegetables	2										35	15	50
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)													

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
b) Fruits													
Training and Pruning	1										16	9	25
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards	1										14	11	25
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards	2										27	23	50
Plant propagation techniques	1										12	13	25
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology	1										14	11	25
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility Management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Soil fertility management	3										42	33	75
Integrated water management													
Integrated Nutrient Management	2										23	27	50
Production and use of organic inputs													
Management of Problematic soils	2										21	29	50
Micro nutrient deficiency in crops	4										74	26	100
Nutrient Use Efficiency													
Balance Use of fertilizer	1										16	9	25
Soil & water testing	1										14	11	25
others													
Total													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal products													
Others													
Total													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	1										0	25	25
Design and development of low/minimum cost diet	1										0	25	25
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Processing & cooking	1										0	25	25
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Value addition	2										0	50	50
Women empowerment													
Location specific drudgery reduction technologies	1										0	25	25
Rural Crafts	1										0	25	25
Women and child care	1										0	25	25
Others	4										0	100	100
Total													
VI. Agril. Engineering													
Farm machinery & its maintenance													

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
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management	7										117	58	175
Integrated Disease Management	5										90	35	125
Bio0control of pests and diseases													
Production of bio control agents and bio pesticides													
Others													
Total													
VIII. Fisheries													
Integrated fish farming	4										62	38	100
Carp breeding and hatchery management	2										37	13	50
Carp fry and fingerling rearing													
Composite fish culture	4										71	29	100
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes	1										17	8	25
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													

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 of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	**72**										**972**	**828**	**1800**

B) Rural Youth (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming													
Seed production	1										12	03	15
Production of organic inputs	1										08	07	15
Planting material production	2										22	08	30
Vermiculture	1												
Mushroom Production													
Beekeeping	1										03	12	15
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition	2										0	30	30
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													

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
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture	1										06	09	15
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing	1										12	03	15
Others(Soil Sampling & testing)	1										11	04	15
Making & Use of traps	1										09	06	15
Total	**12**										**83**	**82**	**165**

C) Extension Personnel (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management	1										08	07	15
Integrated Nutrient management													
INM in Medicinal crops	1										11	04	15
River bed plantation	1										12	03	15
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs	1										0	15	15
Formation and Management of SHGs													
Women and Child care	1										0	15	15
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													
Bee Keeping	1										09	06	15
Natural farming	1										11	04	15
Climate resilient Agriculture	1										08	07	15
Biofloc fish farming	1										09	06	15
Fish health management	1										08	07	15
Total	**10**										**76**	**74**	**150**

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agronomy	F&FW	Integrated weed management in rice	1	Off	23	2	25	4	1	5
Agronomy	F&FW	Integrated weed management in Jute	1	Off	13	12	25	3		3
Agronomy	F&FW	Organic rice production	1	On	20	5	25	2		2
Agronomy	F&FW	Green manuring& its effect on soil health	1	Off	18	7	25	3	1	4
Agronomy	F&FW	Improved production technology of Jute	1	On	17	8	25	4	1	5
Agronomy	F&FW	Insitu residue management in rice	1	On	25		25	3		3
Agronomy	F&FW	Integrated nutrient management in Toria under rainfed condition	1	Off	21	4	25	2	1	3
Agronomy	F&FW	Chemical weed management in groundnut	1	Off	19	6	25	4	2	6
Agronomy	F&FW	Micronutrient nutrient management in Greengram/ Blackgram	1	Off	14	11	25	3	3	6
Agronomy	F&FW	Integrated weed management in pulses	1	On	22	3	25	10	1	11
Agronomy	F&FW	Integrated nutrient management in Groundnut	1	Off	18	7	25	3	1	4
Agronomy	F&FW	Physiological disorder, its Symptoms and their management in pulses	1	On	13	12	25	3		3
Agronomy	RY	Preparation of liquid organic manure	2	On	13	2	15	3	1	4
Agronomy	RY	Seed production in paddy	2	On	14	1	15	2		2
Agronomy	IS	Climate resilient Agriculture	1	On	13	2	15	3	1	4
Agronomy	IS	Zero budget natural farming	1	On	15		15	2		2
Horticulture	F&FW	QPM production of pointed gourd and spine gourd	1	Off	23	2	25	2	2	4
Horticulture	F&FW	Suitable varieties of Coconut for costal area and it's INM	1	Off	25		25	1		1
Horticulture	F&FW	Scientific cultivation of Dragon fruit	1	On	19	22	25		6	6
Horticulture	F&FW	Scientific QPM production by grafting method in Brinjal and other vegetables	1	Off	13	12	25	8	7	15
Horticulture	F&FW	Canopy management in mango	1	On	25		25			
Horticulture	F&FW	Scientific cultivation of Onion	1	Off	25		25	9		9

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
Horticulture	F&FW	Scientific cultivation multiple disease resistant tomato varieties	1	Off	25		25	10		10
Horticulture	F&FW	QPM production of Banana Var. Bantala by macropropagation	1	On	21	4	25	5	1	6
Horticulture	F&FW	Protected cultivation of capsicum	1	Off	17	8	25	4	3	7
Horticulture	F&FW	Scientific cultivation of Broccoli, coloured cauliflower and capsicum in open field cultivation	1	Off	10	15	25	4	4	8
Horticulture	F&FW	Integrated pest and disease management of water melon	1	On	25		25	12		12
Horticulture	F&FW	Drip & Fertigation installation in banana plantation	1	Off	21	4	25	5	1	6
Horticulture	RY	QPM production in floricultural crops	2	On	15		12	3		3
Horticulture	RY	QPM production of pointed gourd and spine gourd	2	On	15		15	1		1
Horticulture	IS	River bed cashew plantation and processing of cashew nuts.	1	On	15		15	1		15
Horticulture	IS	Production and INM of medicinal and aromatic plants	1	On		15	15		8	8
Pl. Protection	F&FW	Sheath blight management in rice	1	Off	23	2	25		3	25
Pl. Protection	F&FW	IPM strategy for management of major pest of rice	1	Off	20	5	25	5		5
Pl. Protection	F&FW	Major disease management in jute	1	On	19	6	25	6		6
Pl. Protection	F&FW	Management of wilt complex in brinjal	1	Off		25	25			
Pl. Protection	F&FW	Sucking pest management in chilli	1	On	18	7	25	7		7
Pl. Protection	F&FW	Fruit fly management in cucurbits	1	Off	23	2	25	2		2
Pl. Protection	F&FW	Management of collar rot in ground nut	1	Off	24	1	25		1	1
Pl. Protection	F&FW	IPM strategy for disease management in potato	1	On	22	3	25	2		2
Pl. Protection	F&FW	Management of rugose spiraling white fly in coconut	1	Off	19	6	25	6		6

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
Pl. Protection	F&FW	IPM strategy for YMV management in blackgram	1	Off	15	10	25	1		1
Pl. Protection	F&FW	Management of serpentine leaf minor in tomato	1	On	23	2	25		1	1
Pl. Protection	F&FW	Management of hawk moth in greengram	1	Off	22	3	25			
Pl. Protection	RY	Use of traps in pest management	2	On	15		15			
Pl. Protection	RY	Bee keeping for income generation	2	On	12	3	15	3		3
Pl. Protection	IS	IPM strategy for major pest management in rice	2	On	15		15	1		1
Pl. Protection	IS	Bee keeping	2	On	15		15	1		15
Soil Science	F&FW	Management of acidic soil	1	Off	20	5	25		3	3
Soil Science	F&FW	Method & time of application of Zinc in rice	1	Off	20	5	25	3		3
Soil Science	F&FW	Green manuring of dhaincha in Saline soil management	1	On	19	6	25	4		4
Soil Science	F&FW	Soil test based fertilizer application in Jute	1	Off	25		25			
Soil Science	F&FW	Nitrogen management in Rice.	1	On	18	7	25	2		2
Soil Science	F&FW	Deficiency symptoms of micronutrients and their management	1	Off	23	2	25	1		1
Soil Science	F&FW	Soil test based fertilizer application in Cabbage	1	Off	24	1	25		1	1
Soil Science	F&FW	Nutrient management in cauliflower	1	Off	22	3	25	2		2
Soil Science	F&FW	Nutrient management in brinjal	1	On	19	6	25	3		3
Soil Science	F&FW	Management of micronutrient deficiency in tomato	1	Off	15	10	25	1		1
Soil Science	F&FW	Soil test based fertilizer application in greengram and blackgram	1	On	23	2	25		1	1
Soil Science	F&FW	Importance of soil Health card for sustainable Agriculture	1	Off	20	5	25	2		2
Soil Science	RY	Methods of preparation of Vermicompost and vermiculture	2	On	12	3	15		2	2
Soil Science	RY	Methods of Soil sample collection, processing of soil sample and testing of different nutrient by Mridaparikshyak	2	On	14	1	15	1		1

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 Sc.	F&FW	Nutritional gardening for nutritional security	1	Off		25	25	2		2
Home Sc.	F&FW	Milky mushroom cultivation	1	Off		25	25	3		3
Home Sc.	F&FW	Management of paddy straw mushroom bed for higher yield	1	On		25	25	1		1
Home Sc.	F&FW	Packaging methods for better shelf life of paddy straw mushroom	1	Off		25	25	2		2
Home Sc.	F&FW	Use of drudgery reduction tools for weed management in vegetables	1	On		20	20	3		3
Home Sc.	F&FW	Use of hanging type grain cleaner in rice	1	On		25	25	4	1	5
Home Sc.	F&FW	Preparation of low-cost poultry feed for higher income	1	Off		25	25	2		2
Home Sc.	F&FW	Seedling raising technique for women SHG	1	Off		25	25	3		3
Home Sc.	F&FW	Manufacture of golden grass handicraft	2	On		25	25	1		1
Home Sc.	F&FW	Preparation of value-added products of oyster mushroom	2	Off		25	25	2		2
Home Sc.	F&FW	Preparation of value-added products of tomato	1	On		20	20	3		3
Home Sc.	F&FW	Reduction of nutrient loss in cooking	1	Off		25	25	4	1	5
Home Sc.	RY	Value addition in milk	2	On		15	15			
Home Sc.	RY	Process of bleaching, Scouring and dyeing of jute fiber	3	On		15	15	3		3
Home Sc.	IS	Nutritional needs for adolescent girls	1	On		15	15	1		1
Home Sc.	IS	Principles and advantages of gender mainstreaming through SHGs in agriculture	1	On		15	15		2	2
Fishery	F&FW	Pre-stocking pond management	1	Off	17	8	25	2		2
Fishery	F&FW	Stocking and post stocking pond management	1	Off	19	6	25	3		3
Fishery	F&FW	Composite carp culture	1	On	22	3	25	1		1
Fishery	F&FW	Short term culture of minor carps in seasonal ponds	1	Off	16	9	25	2		2
Fishery	F&FW	Feeding management for carp culture	1	On	18	7	25	3		3
Fishery	F&FW	Culture practices of Amur carp with IMC	1	Off	12	13	25	4	1	5

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
Fishery	F&FW	Multiple stocking and multiple harvesting method of pisciculture	1	Off	17	8	25		2	2
Fishery	F&FW	Biofloc fish production technique	1	Off	23	2	25	1	2	3
Fishery	F&FW	Ornamental fish culture	1	On	20	5	25	2	2	4
Fishery	F&FW	Production of fingerlings and yearlings	1	Off	22	3	25	2		2
Fishery	F&FW	Techniques of fish feed preparation	1	On	19	6	25	6		6
Fishery	F&FW	Fish diseases and their management	1	Off	15	10	25	1		1
Fishery	RY	Breeding and culture of ornamental fish	3	On	12	3	15	2		2
Fishery	RY	Carp seed production technique	2	On	10	5	15	1		1
Fishery	IS	Biofloc fish production technique	1	On	13	2	15	2		2
Fishery	IS	Fish health management	1	On	15		15	1		1

H) Vocational training programmes for Rural Youth

a) Details of training programmes for Rural Youth

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

**training title should specify the major technology /skill transferred*

b) Details of participation

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Crop production and management													
Commercial floriculture													
Commercial fruit production													
Commercial vegetable production													
Integrated crop management													
Organic farming													

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

I) Sponsored Training Programmes

a) Details of Sponsored Training Programme

Sl. No	Title	Thematic area	Month	Duration (days)	Client PF/RY/EF	No. of courses	No. of participants	Sponsoring Agency
1	Awareness training programme on pump technicians		March	1	PF	1	70	Engineer-in-Chief, Electricity-cum-Principal, Chief Electrical Inspector, Government of Odisha

b) Details of participation

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Crop production and management													
Increasing production and productivity of crops													
Commercial production of vegetables													
Production and value addition													
Fruit Plants													
Ornamental plants													
Spices crops													
Soil health and fertility management													
Production of Inputs at site													
Methods of protective cultivation													
Other													
Total													
Post harvest technology and value addition													
Processing and value addition													
Other													
Total													
Farm machinery													
Farm machinery, tools and implements													
Pump Technician training	1	40	17	57	7	6	13	0	0	0	47	23	70
Total													
Livestock and fisheries													
Livestock production and management													
Animal Nutrition Management													
Animal Disease Management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Fisheries Nutrition													
Fisheries Management													
Other													
Total													
Home Science													
Household nutritional security													
Economic empowerment of women													
Drudgery reduction of women													
Other													
Total													
Agricultural Extension													
Capacity Building and Group Dynamics													
Other													
Total													
Grant Total													

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

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	M	F	Total	M	F	Total
Field Day	8	175	75	250	5	5	2	7	180	77	257
Kisan Mela	1	42	58	100	12	4	1	5	46	59	105
Kisan Ghosthi											
Exhibition	2	225	25	450	34				225	25	450
Film Show	4	95	25	120	8				95	25	120
Method Demonstrations	6	64	11	75	4				64	11	75
Farmers Seminar											
Workshop											
Group meetings	11	228	34	262	12	24	7	31	252	41	293
Lectures delivered as resource persons	58	230	140	370	15	84	32	116	314	172	486
Advisory Services	36										
Scientific visit to farmers field	182	860	285	1145	16	156	23	179	1016	308	1324
Farmers visit to KVK	1	2910	2330	5240	18				2910	2330	5240
Diagnostic visits	132	700	140	840	14	112	23	135	812	163	985
Exposure visits											
Ex-trainees Sammelan	4	71	23	94	6	24	7	31	95	30	125
Soil health Camp	2	335	85	420	10	15	5	20	350	90	440
Animal Health Camp	2	80	46	126	13	4	3	7	84	49	133
Agri mobile clinic	-										
Soil test campaigns	2	32	14	46	4	2	-	2	34	14	48
Farm Science Club Conveners meet	1	25	3	28	2	2	1	3	27	4	31
Self Help Group Conveners meetings	6	-	126	126	4	4	8	12	4	134	138
Mahila Mandals Conveners meetings	1	-	24	24	2	-	2	2	-	26	26
Celebration of important days (Vigilance Awareness Week, International Womens Day, Women in Agriculture Day, World Food Day, , World Soil Day, Mahila Kisan Diwas, OUAT Foundation Day, ICAR Foundation Day)	12	734	216	950	16	34	8	42	768	224	992
Total	471	6806	3660	10666	195	470	122	592	7276	3782	11268

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	6
Radio talks	7
TV talks	2
Popular articles	2
Extension Literature	4
Other, if any	

3.5 a. Production and supply of Technological products

Village seed

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided							
					SC		ST		Other		Total	
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
Paddy	Kalachampa	222.4	7,90,000	3	1	28	12	466	54	497	67
Grand Total		**222.4**	**7,90,000**	**3**	**1**	**28**	**12**	**466**	**54**	**497**	**67**

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											
Tomato	Arka abhed	12300	24600	36	16	8	1	180	39	224	56
Brinjal	Utkal Keshari	6630	13260	28	8	7		180	104	215	112
Chilli	Utkal Ava, Utkal Rashmi	1925	3850	12		6		54	30	72	30
Cabbage	NS-43, BC-76, Xenith	5475	10950	32	4	11	2	199	110	242	116
Cauliflower	Megha, White Short, Julee	5440	10880	18	1	6		212	104	236	105
Drumstick	ODC-3, PKM-1	596	11920	22	2	3		173	72	198	74
Arecanut	Mohitnagar, Srimangala	502	12550	6		1		29	14	36	14
Fruits											
Mango											
Guava											
Lime											
Papaya	Pusa Nanha, Arka Surya, Arka Pravat	814	16280	6	2	3	1	133	15	142	18
Banana	Bantala	200	4000	4		1		33	12	38	12
Others											
Ornamental plants											
Medicinal and Aromatic											
Plantation											
Spices											
Turmeric											
Cinnamon											
Tuber											
Elephant yams											
Fodder crop saplings											
Forest Species											
Others, pl.specify											
Total		**33882**	**108290**	**164**	**33**	**46**	**4**	**1193**	**500**	**1403**	**537**

Production of Bio-Products

Name of product	Quantity (Kg)	Value (Rs.)	No. of Farmers benefitted							
			SC		ST		Other		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizers	1000	20000	22	3			240	61	262	64
Bio-pesticide										
Bio-fungicide										
Bio-agents	51	25500	8	1			79	8	87	9
Others, please specify.										
Total	**1051**	**45500**	**30**	**4**			**319**	**69**	**349**	**73**

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)	RIR, Kuroiler, Kadaknath, Aseel, Banaraja	3919	156760	61	8	3	1	100	47	164	56
Japanese Quail											
Turkey											
Emu											
Ducks	Khaki campbell	200	5000	2				7	3	9	3
Others (Pl. specify)											
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings	Catla, Rohu, Mrigal	25000	50000	5				33	9	38	9
Spawn											
Others (Pl. specify)											
Grand Total		**29119**	**211760**	**68**	**8**	**3**	**1**	**140**	**59**	**211**	**68**

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

i) Name of Seed Hub Centre:

Name of Nodal Officer :	
Address :	
e-mail :	
Phone No. : Mobile :	

ii) Quality Seed Production Reports

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

iii) Financial Progress

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

iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

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

Item	Title	Author's name	Number	Circulation
Research paper	Efficient native strains of rhizobia improved nodulation and productivity of French bean (Phaseolus vulgaris L.) under rainfed condition	Puthan Purayil Athul, Ranjan Kumar Patra, Debadatta Sethi, Narayan Panda, Sujit Kumar Mukhi, Kshitipati Padhan, Sanjib Kumar Sahoo, Tapas Ranjan Sahoo, Satyabrata Mangaraj, Shriram Ratan Pradhan and Sushanta Kumar Pattanayak	1(In Journal Frontier in Plant Science)	-

Item	Title	Author's name	Number	Circulation
Seminar/ conference/ symposia papers	Yearling stocking in Seasonal pond- An economically profitable composite carp culture technique in Kendrapara, Odisha	M R Behera and S N Mishra	In the proceedings of International Conference on Reimagining Rainfed Agro-ecosystems: Challenges & Opportunities	
	Effect of different mulching on weed dynamics and yield of tomato (*Lycopersicon esculentum)* in post flood situation in Kendrapara, Odisha	T R Sahoo, P Mishra, P J Mishra, H K Sahoo, F H Rahman, A Phonglosa, M R Behera, N. Mohapatra and S N Mishra	In the proceedings of International Conference on Reimagining Rainfed Agro-ecosystems: Challenges & Opportunities	
Books				
Bulletins				
News letter	TULASI	S N Mishra, N Mohapata, T R Sahoo	1	500
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature	Natural farming	Mishra S. N., Sahoo, T.R., Mishra P. and Sahoo P K	1	500
	Rice Seed Production	Mishra S. N., Mohapatra, R K, Sahoo, T.R., and Mohanty M P	1	500
	Dragon fruit Cultivation	Mishra S. N., Mishra P. Mohapatra, N and Mohanty M P	1	500
	Water chestnut cultivation	Mishra S. N., Mishra P., Behera, M R, and Mohapatra R K	1	500
	Mushroom Value addition and processing	Mishra S. N., Mohaptara, N., Mishra P. and Behera, M R ,	1	500
	Fish Preservation	Mishra S. N., Behera, M.R., and Mohapatra, N	1	500
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	Zonal Workshop of KVKs		Dr Surya Narayan Mishra, SS&H	27.05.2022-29.05.2022	ICAR-ATARI, Kolkata
2	National Workshop of KVKs		Dr Surya Narayan Mishra, SS&H	01.06.2022-02.06.2022	ICAR
3	FPO Workshop		Dr Surya Narayan Mishra, SS&H	19.12.2022-21.12.2022	DEE, OUAT
4	Refresher Training		Smt Namita Mohapatra, Scientist (Home Sc.)	04.01.2023-06.01.2023	DEE, OUAT
5	NICRA workshop		Sri Prabhanjan Mishra, Scientist (Horticulture)	22.08.2022-23.08.2022	NICRA, Hederabad
6	Drone Training		Sri Prabhanjan Mishra, Scientist (Horticulture)	23.03.2023-25.03.2023	NRRI, Cuttack
7	Refresher Training		Sri Prabhanjan Mishra, Scientist (Horticulture)	16.01.2023-18.01.2023	DEE, OUAT
8	Winter School		Sri Prabhanjan Mishra, Scientist (Horticulture)	15.02.2023-06.03.2023	NRRI, Cuttack
9	IFS Training		Dr Tapas Ranjan Sahoo, SMS (Agronomy)	27.03.2023-28.03. 2023	DEE, OUAT
10	Workshop on Natural Farming		Dr Tapas Ranjan Sahoo, SMS (Agronomy)	03.12.2022	
11	Training-cum-workshop on Natural Farming		Dr Tapas Ranjan Sahoo, SMS (Agronomy)	12.12.2022-13.12.2022	
12	Workshop-cum capacity Building	Natural Farming	Dr Tapas Ranjan Sahoo, SMS (Agronomy)	15.02.2023-16.02.2023	
13	International Conference	Reimagining Rainfed Agro-ecosystem: Challenges & Opportunities	Dr Tapas Ranjan Sahoo, SMS (Agronomy)	22.12.2022-24.12.2022	
14	Advanced Agriculture Conclave		Dr Tapas Ranjan Sahoo, SMS (Agronomy)	02.02.2023	
15	International Conference	Reimagining Rainfed Agro-ecosystem: Challenges & Opportunities	Sri Manas Ranjan Behera, SMS (Fishery Sc.)	22.12.2022-24.12.2022	

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

<table>
<tr><td>Name of farmer</td><td>Pramod Biswal</td></tr>
<tr><td>Address</td><td>At/Po-Pakshyot
Kendrapara,754210</td></tr>
<tr><td>Contact details (Phone, mobile, email Id)</td><td>9040929146</td></tr>
<tr><td>Landholding (in ha.)</td><td>4.8 ha</td></tr>
<tr><td>Name and description of the farm/ enterprise</td><td>
<table>
<tr><th>Crops</th><th>Area (ha)</th><th>Yield (q)</th><th>Net return (Rs.)</th></tr>
<tr><td>Paddy(Kharif)</td><td>3</td><td>123</td><td>54,000</td></tr>
<tr><td>Greengram(Rabi)</td><td>1</td><td>6</td><td>20,000</td></tr>
<tr><td>Groundnut(Rabi)</td><td>0.4</td><td>7.5</td><td>28,000</td></tr>
<tr><td>Vegetables(Round the year) Brinjal and Tomato</td><td>1.8</td><td>570</td><td>2,16,000</td></tr>
</table>
<table>
<tr><th>Enterprise</th><th>Type of Enterprise (Production / Processing / Marketing)</th><th>Area / No.</th><th>Annual production</th><th>Annual turn-over (Rs.)</th><th>Net return (Rs.)</th></tr>
<tr><td>Apiary</td><td>Production</td><td>12 nos box</td><td>62 kg</td><td>40300</td><td>32600</td></tr>
<tr><td>Pisciculture</td><td>Spawn Production</td><td>0.1 acre</td><td>3q</td><td>42000</td><td>23500</td></tr>
</table>
</td></tr>
<tr><td>Economic impact</td><td>He is getting an annual net income of Rs 374100/-from the enterprises and crops grown round the year.</td></tr>
<tr><td>Social impact</td><td>He is creating annual 230 man days in his farm and give employment to the local people.</td></tr>
<tr><td>Environmental impact</td><td>He is practicing organic farming in a small patch in his farm and avoids using synthetic chemicals in that particular patch and maintains ecological balance.</td></tr>
<tr><td>Horizontal/ Vertical spread</td><td>Others farmers are visiting his farm and are being influenced very much for adopting the innovative technologies like Trellis material from damaged fishing nets and locally available bamboo is being used for vegetable cultivation. On farm production of vermicompost from farm waste in ring method.</td></tr>
</table>

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
-	-	-	-

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
01	Fruit and ornamental cuttings	Aloevera gel is used for rooting promotion in seedlings	Fast and proper root development in cuttings

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1	Rice	25 ha	125 q	15	N

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

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

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

Sl. No	Name of the Equipment	Qty.
1.	Flame Photometer Micro Processor (PH) Meter	1 No.
2.	BOD incubator Conductivity meter	1 No.
3.	Automatic Nitrogen estimation system(Kelp) analyser Refrigerator	1 No.
4.	Distillation unit Electronic top balance	1 No.
5.	Hot air oven Physical Balance	1 No.
6.	Electronic top pan balanceBouyous Hydrometer	1 No.
7.	Conductivity meter Mechanical stirrer	1 No.
8.	Bouyous Hydrometer	1 No.
9.	Mechanical stirrer	1 No.
10.	Colony counter	1 No.
11.	Plant sample grinder	1 No.
12.	Hot water bath	1 No.

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (inRs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
206	54	260	260	14	

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1.	World Soil Day	50	-	-	50	50

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

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

3.13. Technology week celebration

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

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

No of student trained	No of days stayed
-	-

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
12.04.2022	Sj. R.C. Jena, Addl. Secretary to Govt. of Odisha	Visit to KVK
22.04.2022	Prof. S.S. Mahapatra, Dept. of Pl. Pathology, CA, BBSR	Resource person for Pesticide dealers training
22.04.2022	Prof. M.K. Mishra, Dept. of Pl. Pathology, CA, BBSR	Resource person for Pesticide dealers training
03.05.2022	Sj. S.B. Behera, Hon'ble MLA, Kendrapara	Celebration of District level Akshya Tritiya
13.05.2022	Prof. C.R. Satpathy, Dept. of Entomology, CA, BBSR	Resource person for Pesticide dealers training
13.05.2022	Prof. R.K. Mohapatra, Dept. of Entomology, CA, BBSR	Resource person for Pesticide dealers training
15.07.2022	Dr. R.K. Samant, Chairman, QRT, CIWA	QRT (CIWA) visit of KVK
20.11.2022	Dr. Keshab, Principal Scientist, ICAR	Natural farming field visit
23.11.2022	Prof. P.K. Roul, Hon'ble Vice Chancellor, OUAT	SAC meeting
23.11.2022	Prof. P.J. Mishra, Dean Extension Education, OUAT	SAC meeting
21.12.2022	Sj. P.C. Choudhury, IAS, Director, Dept. of Agril & F.E, Odisha	Visit to KVK
21.12.2022	Sj. Amrit Ruturaj, IAS, Collector & District Magistrate, Kendrapara	Visit to KVK
09.03.2023	Dr. Tadayoshi Masuda	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)
Chemical weed management in transplanted rice	30	70%	Rs 25000/ha	Rs 32000/ha
IPM module for sucking pest management in chilli	40	82%	Rs 65000/ha	Rs 90000/ha
Cultivation of grafted brinjal	40	80%	Rs 194960/ha	Rs 287699/ha
Value addition in Tomato	50	70%	Rs 60/10 kg	Rs 520/10 kg
Application of floating fish feed in composite carp culture	30	75%	Rs 140000/ha	Rs 190000/ha

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

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

Horizontal spread of technologies	
Technology	**Horizontal spread**
Cultivation of flood tolerant rice variety Swarna Sub 1	250 ha
Cultivation of Tripple disease resistant variety of Tamato Arka Rakshyak	60 ha
Cultivation of Dhanicha for green manuring in rice	150 ha
Cultivation of Paddy straw Mushroom	350 nos
Intercropping of Java Punti With IMC	130 ha

Give information in the same format as in case studies

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

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

4.4. Details of innovations recorded by the KVK

Thematic area	**Water conservation**
Name of the Innovation	Zero energy drip irrigation system for newly established arecanut plantation
Details of Innovator	Pabitra Nayak At: Gajapitha P.O: R.K. Patna Via: Jamapada P.S: Patkura Dist: Kendrapara PIN: 754244 (Odisha) Phone: 8018680404 Mobile: 7326072026
Back ground of innovation	The main of the innovation is to conserve water and to develop controlled irrigation system to check the over saturation.
Technology details	Improved varieties of arecanut are planted. A new concept of irrigation i.e. Zero energy (gravitational flow) drip irrigation system is installed for irrigation of the newly established arecanut plantation. A plastic drum is kept at a height of 5 feet from the arecanut plant which is loaded with water. Low cost plastic pipe is connected from the drum to each plant in a line. At the point of root zone of each plant a small pin hole is created through which water drops from the pipe in a regulated manner to wet the root zone only. Rice husk also spread over the root zone as mulching to increase the water holding capacity of the soil. In case of excessive watering a tap is there to close the flow at the drum outlet.
Practical utility of innovation	As Zero energy drip irrigation is advocated there is conservation of 65% of water as compared to flood irrigation. Also there is no energy consumption, as system is operating under gravitational work force. The labour consumption is very low in this system as a result the cost of cultivation of the crop is reduced.

4.5. Details of entrepreneurship development

Name of the enterprise	**Mushroom Spawn Production**
Name & complete address of the entrepreneur	At/Po-Purusottampur Kendrapara,
Role of KVK with quantitative data support:	He was given training on mushroom and spawn production technology at KVK Kendrapara. He is always in regular touch with KVK scientist for technical guidance regarding spawn production. KVK Kendrapara facilitates availability of quality mother

	spawn culture for him from OUAT. He is also practicing off season paddy straw mushroom cultivation after getting technical guidance from KVK, Kendrapara.
Timeline of the entrepreneurship development	2021-22 -1st year 2022-23-2nd year
Technical Components of the Enterprise	Mushroom spawn production with Autoclave, Laminar air flow etc.
Status of entrepreneur before and after the enterprise	He owns, Motor cycle, TV, Refrigerator, Pucca house and provides employment to 3 persons round the year.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	300 spawn bottle production capacity with annual 60000 Nos of spawn production.
Horizontal spread of enterprise	2 other farmers started producing mushroom spawn.

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
ICAR-ATARI, Kolkata	As a funding source, HRD of Scientists
OUAT, Bhubaneswar	Holistic approach and development as Host Institute, procurement of paddy seeds, planting materials, Tricho cards, poultry, mushroom mother spawn, etc.
JRS, Jajanga	Research Extension Linkage, regional programmes, preparation of different agricultural and allied strategies for development, technology transfer, participation in zonal meeting
CIFA, Bhubaneswar	Procurement of IMC spawn & fry
CHES, Bhubaneswar	Procurement of Inputs, Training programmes, participation in SAC Meeting, Exposure visit, Organization of a field day on Mango sooty blotch treatment during post-harvest period to get quality fruits
ICAR-MANAGE, Hyderabad	Participation in training programmes
NABARD	Contribution for Establishment of farmers clubs, Contribution for Pilot project on technology transfer, Marketing credit counselling
District Administration	District technical committee meeting, all technical activities pertaining to farmers

Name of organization	Nature of linkage
D.R.D.A, Kendrapara	District development discussion, collaborative programme, involvement of KVK beneficiaries for NREGS, organizing training for watershed management, rural youth and agro-entrepreneurs, construction assistance
DSWO, Kendrapara	In-service training programme for AWWs & Extension Functionaries on Supplementary diet for pregnant, Lactating Mother and children from location specific food, Calorie & Protein value estimated for additional SNP for severely underweight children in the district, Method, capacity building training to SHGs under Mission Shakti for poultry farming & Goat farming, celebration of International Women Day
Dept. Mission Shakti	Rural youth training, celebration of women in agriculture day
OSSC, Bhubaneswar	Procurement of seeds for demonstration, Sale of foundation seed of paddy
State Agril. Deptt., ATMA, NFSM	Assessment and validation Programme, cluster demonstration, BPH infested field visit with line dept. field functionaries, World Soil Day, Strategy & RE meeting
State Horticultural Deptt.	Convergence programme, training on programmes, verification of Nursery, associated with NHB
State Veterinary Deptt.	Small animal development programme, vaccination and deworming, AI Scheme, verification of schemes along with bank linkage & Animal Health Camps
State Fishery Dept.	Distribution of IMC fingerlings, Verification of Schemes
Watershed, Kendrapara	RAD programme, QPM for cashew improvement, Supply of seedlings & saplings
Forestry Department	Plantation programme
RING KVK (Jagatsinghpur, Jajpur)	Planning and implementation of programmes for agroclimatic journal, Sharing of Resource person
NGOs	Acceleration of activities of SHGs and rural youth clubs, Capacity building of NGO functionaries through various interventions

5.2. List of special programmes undertaken during 2022by 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.)

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/ breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Vermi compost	2010-11	24	Eisenia foetida	Vermi compost & vermi	10q & 51 kg	9000	40500	
2.	Azolla	2018-19	20			20 kg	-	200	
3.	BGA	2018-19	22			30 kg	-	300	
4.	Medicinal unit	2016-17	310				-	-	
5.	Net house	2009-10	112				48331	108290	
6.	Areca nut unit	2018-19	290	Mohitnagar					
7.	Mango orchard	2007-08	755						
8	Fodder unit	2019-20	335						
9	Sweet potato	2016-17	32						
10	Dragon fruit	2019-20	22		Fruit	72 nos.	400	2860	
11	Mushroom unit	2010-11	48	PSM & Oyster	Mushroom	1.3 q	7700	15600	
12	Mushroom spawn unit	2010-11	16	PSM & Oyster	Spawn bottle	2235	20115	35760	
13	Poultry unit	2009-10	64	Kadaknath, Kuroiler, Aseel, RIR	Birds	3919	88000	156760	
14	Duckery unit	2009-10	15	Khaki Campbell	birds	200	4500	8000	
15	Pointed gourd	2019-20	8						
16	Bi-pesticidal unit	2018-19	16						
17	Fishery pond	2021-22	2000	IMC	Fingerling	25000	18000	50000	

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	12.07.2022	25.12.2022	5	Kalachampa	FS	222.4	336738	783640	

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.					

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.							

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)
Total :			

(For whole of the year)

6.6. Utilization of staff quarters

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

Months	Q I	QII	Q III	QIV	Q V	QVI
	All the quarters are filled up					

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK	SBI, Kendrapara	Kendrapara	11387961417
Revolving Fund	SBI, Kendrapara	Kendrapara	30878179008
ATMA	SBI, Kendrapara	Kendrapara	3241924619

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April, 2021
	Kharif	Rabi	Kharif	Rabi	
Mustard	-	90,000	-	90,000	Nil

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2021
	Kharif	Rabi	Kharif	Rabi	
Blackgram	-	60,000	-	60,000	Nil

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

Sl.No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	1,16,68,000	1,09,44,056	1,08,24,011
2	Traveling allowances	1,20,000	1,20,000	1,20,000
3	Contingencies			
A	R. Contingency	26,40,000	26,40,000	26,40,000
B	Library	10,000	10,000	10,000
C	Swachhta Expenditure/ SAP Fund	17,250	17,250	17,250
TOTAL (A)		**1,44,55,250**	**1,37,31,306**	**1,36,11,261**

B. Non-Recurring Contingencies				
1	Vehicle	9,00,000	9,00,000	9,00,000
2	IT	50,000	50,000	50,000
3	Furniture	1,80,000	1,80,000	1,80,000
4	Hostel	9,99,000	9,99,000	9,99,000
TOTAL (B)		**21,29,000**	**21,29,000**	**21,29,000**
C. REVOLVING FUND		-	-	-
GRAND TOTAL (A+B+C)		**1,65,84,250**	**1,58,60,306**	**1,57,40,261**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2020-21	1,20,041	6,49,953	5,20,061	Cash: 2,49,933 Kind: 4,26,356
2021-22	2,49,933	8,16,887	7,38,186	Cash: 3,28,634 Kind: 14,880
2022-23	3,28,634	5,16,198	6,54,833	Cash: 1,89,999 Kind: 7,90,000

7.6. (i) Number of SHGs formed by KVKs: 4
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities: Imparting training
(iii) Details of marketing channels created for the SHGs: Linkage with OLM and mission shakti

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
Exposure visit	1	Kharif	-	With ATMA Kendrapara	-

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
Sheath Blight	Rice	October	1500	45%	50
Wilting	Brinjal	August	450	60 %	20

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)
LSD	Cattle	December	5	-	-
Argulosis	IMC	November	20	-	650

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	46	1,49,026
Livestock	5	1,08,208
Fishery	13	64,230
Weather	3	1,51,033
Marketing	2	1,01,042
Awareness	14	1,49,340
Training information	-	-
Other	11	1,49,450
Total	**94**	**8,72,329**

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	67,047
2.	No. of farmers registered in the portal	60,500
3.	Mobile Apps developed by KVK	-
4.	Name of the App	-
5.	Language of the App	-
6.	Meant for crop/ livestock/ fishery/ others	-
7.	No. of times downloaded	-

9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
25th Sept to 2nd October	• Cleaning of office premises • Vermicomposting • Swachhta Awareness at local level

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office		
2. Basic maintenance		
3. Sanitation and SBM	4	2500
4. Cleaning and beautification of surrounding areas	12	2500
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	2	7250
6. Used water for agriculture/ horticulture application		

Activities	Number	Expenditure (in Rs.)
7. Swachhta Awareness at local level	2	5000
8. Swachhta Workshops		
9. Swachhta Pledge		
10. Display and Banner		
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)		
14. No of Staff members involved in the activities		
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total	**20**	**172 50**

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 Swachhta Hi Suraksha programme (16-31.12.2021) organized

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

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

Sl.No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Awareness on women empowerment	4	30	-	-

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

Sl.No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Mrs. Amita Rout	At: Padini , Block Rajnagar, Dist: Kendrapara	Leading in enterprise
2	Mrs. Ipsita Swain	At : AdhangaMalikeswarpur Block: Derabis, Dist: Kendrapara	Leading in enterprise
3	Mrs. SailabalaSamal	At: Bhratpur Block: KendraparaDist: Kendrapara	Leading in enterprise
4	Mrs. GitanjaliNayak	At: Napanga, Block: PatamundaiDist: Kendrapara	Leading in enterprise

9.12. Revenue generation

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

9.13. Resource Generation:

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

9.14. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ ICAR/ Others (pl. specify)	Present status of functioning
2015	IMD	Functional

9.15. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Odisha	Kendrapara	ICM under flood condition	2	70	• Growing of seedlings in community nursery • Post flood situation pulse cultivation • Early harvest of crop during untimely rainfall

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	-					
..						
Others (If any)						

11. Celebration of World Food Day in 2021

Sl. No.	Activities undertaken	No. of VIPs attended	No. of participants		
			M	F	T
1	Distribution of planting materials, mushroom spawn	-	25	35	60

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

Natural Resource Management

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
Low cost poly tunnel for seedling raising	1	3	0.01					3		3		3	
Poly mulching in vegetable	1	25	2					25		25		25	
Vegetable cultivation in grow bag	1	10	0.05						10		10	10	
Vermicompost production	1	6	200 m^2					6		6		6	
Piara cropping (Rice-black gram)	1	20	5							25		25	

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	
Rice- CR 1009 sub 1	2					10		10		10	
Rice-Swarna sub-1	3					10		10		10	
Tomato - Chieernjeevi	1					5		5		5	
Sweet corn cultivation	.6					5		5		5	
Greengram IPM-02-14	2					10		10		10	

Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
Portable poultry housing system	150	5	250 m^2		5						5	5	
Improved goat housing system	22	2	500 m^2	2						2		2	
Composite Pisciculture	4000	3	.4					3		3		3	
Management of cattle shed	6	3	1000 m^2							3		3	
Back yard poultry Kadaknath	500	5	500		5							5	
Stress tolerant duck breed Khaki campbell	200	3	200		3							3	

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	
Mushroom cultivation	10	10		3				7		10	10	
Value addition in jute	10	10		3				7		10	10	
Community fodder bank	5	1							5		5	

Capacity building

Thematic area	No of Courses	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T
Crop Production	2	8				30	12	38	12	50
Soil health management	2	13	2			26	9	39	11	50
Composite fish culture	2	17				33		50		50
Protected cultivation	2	9	5			22	4	31	9	50
Crop Protection	2	13				37		50		50
Processing &Value addition	2		23				27		50	50

Extension activities

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

Detailed report should be provided in the circulated Performa

13. Awards/ Recognition received by the KVK

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

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
1	Best Farmer Award	Mr Amar Kumar Rout, Biswanathpur, Rajkanika	2022-23	OUAT	-	OUAT Foundation Day

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

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

Sl. No.	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator

16. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1	Pisciculture	0.2	40000 IMC fingerlings	45000	67000	17	60
2	Arecanut	115 plants	Newly planted	37200			
3	Tomato & brinjal with mulching	0.05	Cont…				
4	Betelvine	0.01	Cont…				

17. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Demonstration on Chemical weed management in Transplanted rice	Post-emergence application of Bispyribac-Sodium @ 20 g/ ha + Almix (Metsulfuron methyl 10%+ Chlorimuron ethyl 10%) @ 4 g/ ha at 25 DAT	39392	120	
2	Demonstration on INM in Greengram	Application of 75% STBFR + Foliar application of WSF (18:18:18) @ 2% at 25 and 40 DAS	16100	80	
3	Demonstration on cultivation of grafted brinjal	Grafted brinjal cultivation (grafted brinjal Var. VNR 212)	287699	110	
4	Demonstration on cultivation of multiple disease resistant tomato variety Arka Abhed	Demonstration on cultivation of multiple disease resistant tomato variety Arka Abhed (Leaf curl virus, Early blight, Late blight and bacterial wilt)	185970	130	
5	Demonstration on ZINC application in low land rice	STBFR (NPK) + 5t FYM /ha + Zn @ 2.5 kg/ha	36740	170	
6	Demonstration on Boron application in cauliflower	Two foliar spray of Borax @ 0.25% at 10 days interval starting from 30 days after sowing	177400	150	

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
7	Demonstration on sucking pest management in chilli	Seed treatment with Imidachloprid 600FS @ 5ml /kg seed, Yellow sticky trap (50/ha),Blue sticky trap 50/ha) and need base alternate spraying of spiromesifen 22.9%SC @ 1 ml/ l and Acetamiprid 25 % SP @ 0.2 g./lit. of water	130000	140	
8	Demonstration on wilting management in brinjal	Seed treatment with Carbendazim @ 3 gram/kg, application of carbofuran 3G @ 25 kg/ha at planting time and soil drenching copper oxychloride 50 % WP @ 3 g/l + streptocycline @ 2 ml/15 l twice at 10 days interval	130000	120	
9	Demonstration on Milky mushroom cultivation	Milky mushroom cultivation with casing on top of the bed using crumpled straw	80/bed	60	
10	Demonstration on preparation of dyed jute fibre	Preparation of coloured fibre (belched dry fibre soak in 1 lit warm water + 50 gram fabric colour)	3900/q	70	
11	Demonstration of Java Punti as intercrop in composite fish culture	Incorporation of Java Punti with IMC i.e. stocking of Catla:Rohu: Mrigal:Java Punti::3:4:3:2 @ 12000 nos/ha	227000	120	
12	Demonstration of Genetically improved (GI) Catla in composite carp culture	Incorporation of GI Catla in composite carp culture with species ratio of GI Catla: Rohu: Mrigal:: 3:4:3 @ 10000 nos/ha	208500	140	

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

Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants						Whether uploaded to SIP Portal (Y/N)	Fund utilized for the training (Rs.)
				SC		ST		Other			
				M	F	M	F	M	F		
Honey Bee Farmer	Dr. S.N. Mishra	27.03.2023	22.04.2023					11	9	Y	204275

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

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

19. Information on NARI Project(if applicable)

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

20. Specific programmes for the period

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

Sl. No.	Activity	No. of SC farmers/ stakeholders		
		Male	Female	Total
1	On- farm trials	-	-	-
2	Frontline demonstrations	306	169	475
3	No. of Training programmes for farmers		12	
4	Farmers trained	172	128	240
5	No. of Training programmes for Extension Personnel		-	
6	Extension Personnel trained	-	-	-
7	Participants in extension activities	492	288	780
8	Distribution of seed	26	24	50
9	Planting material distributed	126	74	200
10	Livestock strains and fingerlings distributed	13	07	20
11	Soil, water, plant, manures samples tested	20	16	36
12	Mobile agro-advisory provided to farmers			
13	Other (Please specify)			

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

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

iii. Status of Natural Farming

Crop/ Commodity involved in Natural farming	Area covered under such farming (ha)	No. of farmers practicing Natural farming at present	Details of individual farmers (Name and Contact No.)	Organic component/ inputs used for such farming
Brinjal, Tomato, Cow pea, Beans, Marigold	3.2 ha	8	Balunkeswar Sahoo(9556556768) Maheswar Sahoo(9937717700) Narahari Bhuyan(9556317519) Nrusigha Das(9938982512)	Jeebamruta, Beejamruta, Neemastra, Dashaparni Arka

iv. Farmer Producer Organizations

a) General information

Sl. No.	Name & Address of FPO	Name & Contact No. of Head of FPO	No. of farmer members of FPO			Crop/ Enterprise dealt with by FPO	Kind of support provided by KVK in running/ starting of FPO (in brief)
			M	F	T		
1	Maa Kharakhai FPCL, Rajakanika	Rabindra Ku Sahoo, CEO, Mob:7008995701	317	186	493	Fish Pickle, Steps taken for opening of Aquashop and KIOSK	Capacity building
2	Baulakani FPCL, Mahakalpara	Pabitra Ku Samanray, CEO, Mob: 7894501910	322	204	526	Seed Licence, Applied for fertiliser Licence, Facilitated Potato cultivation by member farmers, Collectivisation of Coconut, Steps for collection of milk from farmers	Capacity building

b) Financial information

Name & Address of FPO	Date of Registration	FPO Registered (Y/N)	Application Submitted for Registration (Y/N)	No. of share-holding farmer members	Equity Amount Collected (Rs.)	Bank Account Opened (Y/N)	Board Reconstituted after attaining minimum membership (Y/N)
Maa Kharakhai FPCL, Rajakanika	23.04.2019	Y	-	493	500000	Y	Y
Baulakani FPCL, Mahakalpara	31.08.2018	Y	-	526	506800	Y	Y

v. Nutri-gardens (Village wise)

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

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

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

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

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

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

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