ANNUAL PROGRESS REPORT

(January 2022 to December 2022)



KrishiVigan Kendra, Angul, Odisha ICAR-ATARI, Kolkata Zone-V

Odisha University of Agriculture & Technology, Bhubaneswar

ANNUAL PROGRESS REPORT 2022 (JANUARY 2022 - DECEMBER 2022) KVK, ANGUL

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	
KVK, Angul	-	-	kvkangul.ouat@gmail.com
At: Panchamahala			
P.O: Hulurisingha			
District: Angul			
PIN: 759132			
Odisha			

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

Address	Telephone		E mail
	Office	FAX	
Odisha University of	0674-	0674-2397818	registrarouat@gmail.com
Agriculture & Technology	2397424		
At: SiripurChowk,			
Bhubaneswar-3, ODISHA			

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

Name	Telephone / Contact					
	Residence	Mobile	Email			
Dr. Debasis Mishra	-	9438357962	demishra74@gmail.com			
		7978431371				

1.4. Year of sanction of KVK: 25th March 1995

1.5. Staff Position (as on 1st January, 2022)

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. Debasis Mishra	Senior Scientist & Head	Plant Protection	79800-211500 (89800)	04.06.2021	Permanent	Others
2	Subject Matter Specialist	Dharitri Patra	Scientist	Home Sc.	57700-182000 (89800)	20.06.2018	Permanent	Others
3	Subject Matter Specialist	Dr. Gyanranjan Sahoo	Scientist	Forestry	57700-182000 (79800)	06.10.2015	Permanent	OBC
4	Subject Matter Specialist	Dr. Tiryak Kumar Samant	Scientist	Agronomy	15600-39100 (23070+ 6000)	12.12.2012	Permanent	Others
5	Subject Matter Specialist	Dr. Monalisa Behera	Scientist	Animal Sc.	15600-39100 (20590+ 6000)	23.07.2015	Permanent	SC
6	Subject Matter Specialist	Dr. Ipsita Mishra	Scientist	Pl. Protection	15600-39100 (20590+ 6000)	06.11.2015	Permanent	Others
7	Subject Matter Specialist	Vacant						
8	Programme Assistant	Rashmi Prabha Mishra	Programme Assistant	Fishery	35,400-1,12,400 (47600)	30.07.2012	Permanent	Others
9	Computer Programmer	Biswajit Pradhan	Programme Assistant (Computer)	Computer Sc.	35,400-1,12,400 (56900)	04.06.2021	Permanent	OBC
10	Farm Manager	Dr. Tamalika Sarangi	Farm Manager	Nematology	35,400-1,12,400 (12430+4200)	05.02.2015	Permanent	Others
11	Accountant / Superintendent	Vacant		-				
12	Stenographer	Gyana Ranjan Das	Junior Steno-cum- Computer Operator	-	25500-81100 (39800)	04.06.2021	Permanent	Others
13.	Driver	Soumendra Kumar Mishra	Driver-cum-Mechanic	-	19900-63200 (27600)	17.06.2013	Permanent	Others
14.	Driver	Biswanath Parida	Driver-cum-Mechanic	-	19900-63200 (27600)	14.07.2014	Permanent	Others
16.	Supporting staff	Rabi Parida	Peon-cum-Watchman	-	16600-52400 (23600)	02.08.2008	Permanent	Others

1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	0.5
2.	Under Demonstration Units	0.4
3.	Under Crops	3.0
4.	Orchard/Agro-forestry	7.0
5.	Others with details	4.7
	Total	15.6

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					✓	688.65	Yes	ICAR
2.	Farmers Hostel					✓	304.71	Yes	ICAR
3.	Staff Quarters (6)					3 Nos.		Yes	ICAR
4.	Piggery unit	✓							
5	Fencing			✓					RKVY
6	Rain Water harvesting structure	√							
7	Threshing floor					~	185.80	No (since 5 years. Needs repairing)	ICAR
8	Farm go-down						15.60		
9.	Dairy unit	✓							
10.	Poultry unit					✓	13.93	Yes	ICAR
11.	Goatary unit	✓							
12.	Mushroom Lab					✓	13.38	Yes	RKVY
13.	Mushroom production unit					✓	16.00	Yes	ICAR
14.	Shade net house	✓							
15.	Soil test Lab					✓		Yes	ICAR
16	Apiary unit					✓		Yes	ICAR

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Bolero	2017	7,04,162	69,860	Running
TATA Sumo	2003	8,47,041	2,10,150	Not functional
Bajaj Kawasaki 4S Champion	1996	31,282	36,823	Not functional
Bajaj boxer CT-K-Tech	2002	34,990	35,059	Not functional
Tractor	2003	6,33,000	1614 hrs.	Not functional

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment	-			
Counter balance (10 kg cap)	05.10.00	780	Damaged	ICAR
Spring balance (100 kg cap)	08.10.00	570	Damaged	ICAR
Sewing machine	31.03.04	2,980	Damaged	ICAR
Mixture grinder	28.03.04	2,990	Damaged	ICAR
Refrigerator	31.03.07	9,000	Good	ICAR
Microprocessor based pH meter	31.03.07	19,463	Good	ICAR
Hot air oven	31.03.07	7,650	Good	ICAR
Digital analytical balance	28.03.07	1,14,750	Good	ICAR
Hot plate	28.03.07	2,475	Good	ICAR
Micro controlled based conductivity meter	31.03.07	11,090	Good	ICAR
Micro controlled based conductivity meter	31.03.07	32,976	Good	ICAR
Centre fuge	26.03.07	10,688	Good	ICAR
Seive size 30 mesh	31.03.07	450	Good	ICAR
Seive size 60 mesh	31.03.07	450	Good	ICAR
All purpose stirrer REMI make	31.03.07	4,580	Good	ICAR
Water bath	23.03.07	10,688	Good	ICAR

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

Digital spring balance	23.03.07	563	Good	ICAR
Binocular microscope	28.03.07	21,769	Good	ICAR
Triple distillation set	23.03.07	24,750	Good	ICAR
Gas with accessories	31.03.2011	5,483	Good	RKVY
Autoclave	31.03.2011	69,750	Good	RKVY
Laminar Air flow	31.03.2011	55,125	Good	RKVY
Hot Air Oven	31.03.2011	15,000	Good	RKVY
Iron Rack (1 No.), Lavatory Table (1 No),	31.03.2011	19,900	Good	RKVY
Revolving stool (1 No.), Lavatory Stool (1 no)				
Electronic Balance (1 no.)	31.03.2011	5,460	Good	RKVY
Refrigerator	31.03.2011	18,600	Good	RKVY
B.P. One Monitor	31.03.2016	2,610	Good	ICAR
b. Farm machinery				
c. AV Aids				
Camera Pentax 50 mm	30.03.1996	17,780	Out of order	ICAR
Overhead projector (Photophone)	13.03.1999	14,980	Out of order	ICAR
Desk top computer	20.02.2001	40,000	Not functional	ICAR
Inkjet printer	27.03.2002	4,990	Damaged	ICAR
P.A cassette amplifier	29.03.2004	3,390	Good	ICAR
Microphone	30.03.2004	580	Good	ICAR
Microphone stand	30.03.2004	330	Good	ICAR
Sound box	30.03.2004	1,875	Good	ICAR
Desk top computer	30.03.2006	37,500	Good	ICAR
Dot matrix printer	30.03.2006	10,690	Damaged	ICAR
Multifunctional laser jet	25.03.2006	25,272	Damaged	ICAR
Photo copier	25.03.2006	48,900	Damaged	ICAR
U.P.S	31.03.2006	3,500	Damaged	ICAR
Web camera	31.03.2006	865.40	Damaged	ICAR
L.C.D Projector	30.03.2006	49,899.99	Damaged	ICAR

D.V.D player	30.03.2006	2,989	Good	ICAR
Pen drive	31.03.2007	1,250	Damaged	ICAR
Colour T.V	31.03.2007	11,200	Good	ICAR
Laptop	31.03.2007	48,900	Not functional	ICAR
HP Laser Jet 1020 Plus Printer	10.01.2012	6,500	Good	ICAR
Digital Camera	31.03.2012	19,600	Not functional	ICAR
Desktop Computer	31.03.2012	39,520	Good	ICAR
Printer Samsung SCX 3401	31.03.2012	8,528	Good	ICAR
UPS for computer (Make Uniline)	31.03.2012	1,404	Good	ICAR
Web Camera	31.03.2016	6,600	Good	ICAR
Desktop Computer	31.03.2016	44,500	Good	ICAR
Digital Camera	31.03.2017	17,900	Good	ICAR
Desktop Computer (Make-Dell)	31.03.2017	44,500	Good	ICAR
Laptop (Make –HP)	31.03.2017	48,000	Good	ICAR
Desktop Computer (Make-Dell) 2 nos	31.03.2018	99,000	Good	ICAR
Laptop (Make – Dell)	31.03.2022	49,540	Good	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Diesel pump 3.5 HP	09.03.1999	19,500	Out of order	ICAR
Maruti sprayer (12 lit cap)	27.03.1999	4,874	Damaged	ICAR
Maruti sprayer (9 lit cap)	27.03.1999	3,990	Good	ICAR
Knapsak sprayer 16 lit cap.	27.03.1999	2,610	Good	ICAR
Jubilee duster	27.03.1999	2,300	Damaged	ICAR
Sprayer Brass	30.03.2002	690	Damaged	ICAR
Sprayer 5 lit cap	25.02.2006	600	Damaged	ICAR
Tulu pump 1` HP	19.01.2007	4,651	Damaged	ICAR
Automatic soil augur	31.03.2007	40,420	Good	ICAR
0.5 hp Monoblack Pump for Model	11.06.2012	3,229	Not functioning	ICAR
Brush Cutter and Tap & go (Make-Honda)	05.10.2012	26,000	Good	ICAR

1 no				
Water Pump (Make –Honda) (1 no.)	05.10.2012	22,450	Good	ICAR
Sprayer	05.08.2013	1,850	Good	ICAR
Chaff Cutter	19.03.2016	22,500	Good	ICAR
Ladder (Aluminium) 1 no	31.3.2016	8,500	Good	ICAR
Honeybee box	31.3.2016	5,375	Good	ICAR
Rotavator	31.03.2017	1,00,000	Good	ICAR

1.8. Details of SAC meeting* conducted in the year

Date	Number of	Salient Recommendations	Action taken	If not conducted, state
	Participants			reason
21.12.2022	26	A new herbicide for Maize may be tested	Tembotrione 34.4% SC as post-emergence was	
		74 new heroicide for waize may be tested		
		New generation pesticides like	New generation pesticide Spinosad 45% SC	
		Spinetoram 11.7 % SC for managing	was demonstrated during Kharif 2022 against	
		DBM in cole crops should be assessed	managing DBM in cole crops	
		Popularization of pulses like Field pea	Included in OFT on assessment of INM in	
		and Bengal gram as paira crops to be	rice-pea paira cropping system during 2023-	
		undertaken	24	
		KVK should conduct different trainings	Conducted Awareness programme & Kisan	
		related to judicious use of water for	mela under Jala Shakti Abhiyan during 2022-	
		various crops	23 covering 300 farmers in 2 different villages	
		Popularization of millets in the district	One awareness programme on importance of	
		through trainings and awareness should	millets and its value addition was organized	
		be undertaken	during Millet Diwas, 2022	
			> KVK is conducting awareness	
		KVK to promote organic cultivation of	programme, trainings & demonstrations	
		cabbage & cauliflower and the effort to	under "Out Scaling of Natural Farming	
		be directed for promotion of new fruit	through KVKs" project	
		•		
			in KVK	
		Azolla as a fodder for sustainable	An Azolla unit has been established in KVK	
		promoted		
		Participants	21.12.2022 A new herbicide for Maize may be tested New generation pesticides like Spinetoram 11.7 % SC for managing DBM in cole crops should be assessed Popularization of pulses like Field pea and Bengal gram as paira crops to be undertaken KVK should conduct different trainings related to judicious use of water for various crops Popularization of millets in the district through trainings and awareness should be undertaken KVK to promote organic cultivation of cabbage & cauliflower and the effort to be directed for promotion of new fruit crops like apple ber, dragon fruit etc. Azolla as a fodder for sustainable livestock management should be	21.12.2022 A new herbicide for Maize may be tested New generation pesticides like Spinetoram 11.7 % SC for managing DBM in cole crops should be assessed Popularization of pulses like Field pea and Bengal gram as paira crops to be undertaken KVK should conduct different trainings related to judicious use of water for various crops Popularization of millets in the district through trainings and awareness should be undertaken KVK to promote organic cultivation of cabbage & cauliflower and the effort to be directed for promotion of new fruit crops like apple ber, dragon fruit etc. A new herbicide for Maize may be tested Itembotrione 34.4% SC as post-emergence was assessed in maize crop New generation pesticide Spinosad 45% SC was demonstrated during Kharif 2022 against managing DBM in cole crops anaging DBM in cole crops Included in OFT on assessment of INM in rice-pea paira cropping system during 2023-24 Conducted Awareness programme & Kisan mela under Jala Shakti Abhiyan during 2022-23 covering 300 farmers in 2 different villages One awareness programme on importance of millets and its value addition was organized during Millet Diwas, 2022 KVK is conducting awareness programme, trainings & demonstrations under "Out Scaling of Natural Farming through KVKs" project Vunit of dragon fruit is being established in KVK Azolla as a fodder for sustainable kivestock management should be campus and method demonstration on its

		<u> </u>
	2022	
Instead of conducting 1 ha FLD on cultivation of Greengram in Rice-fallow, the area and number of participants may	Demonstration on management of 25 ha Rice- fallow area with Rice-Greengram cropping system in two villages of the district has been initiated under Rice-fallow management project	
be increased	of Govt. of Odisha	
Exposure visit of the trainees to progressive farmers' fields should be undertaken for successful technology dissemination	Exposure visit of 60 trainees to ICAR_CHES &	
Under Agro-forestry, minimum 3 crops including spices may be taken as intercrops	commence Pineannie and Kam are being	
Fingerling production should be emphasized in KVK farm.	A total of 74,000 advanced fry/fingerlings of IMC/ Amur carp/ GIFT Tilapia were produced under RF	
Actively involved SHGs under OLM should be selected for different capacity building programme.	A total of 08 nos. of actively involved WSHGs have been selected and trained on Value addition of fish (under an SCSP project sponsored by ICAR-CIFT), Colour fish production & Poultry rearing	
Documentation of success stories and videos of successful farmers should be done and uploaded in social media.	A total of 04 numbers of video documentation of successful farmers on the domains of "Vegetable farming, IFS and Bee-keeping" were done & telecasted in "AMA CHAASA" of DD-Odia	

^{*} 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.	Item	Information
no.		
1	Major Farming system/enterprise	• Crop + vegetable + dairy
		• Crop + orchard + mushroom
		• Crop + vegetable + floriculture + dairy + pisciculture
		• Crop + poultry + goatery + mushroom + pisciculture
		• Crop + orchard + floriculture + livestock + pisciculture
		Commercial cultivation of Mango, Litchi and Banana
		Commercial cultivation of vegetables i.e. Tomato, Brinjal, Cauliflower & Onion
		Nursery raising
		Mushroom cultivation
		Pisciculture
		Poultry
		Bee keeping
		Cash crop like sugarcane, Groundnut
2	Agro-climatic Zone	Mid Central Table land zone
3	Agro ecological situation	Red loam soil with medium rainfall
		2. Black soil with low rainfall
		3. Black soil with medium rainfall
		4. Medium textured red loam soil with low rainfall
	0.11	5. Black soil low rainfall
4	Soil type	Red Laterite
		Black (Vertisol)
		Lateritic (Oxisol)
		• Alluvial
5	Productivity of major 2-3 crops under	Cereals: Rice-23.23 q/ha, Maize-19.18 q/ha
	cereals, pulses, oilseeds, vegetables, fruits and others	Pulses : Blackgram - 5.38 q/ha, Greengram - 5.52 q/ha; Pigeonpea: 8.15 q/ha Oilseeds : Groundnut-18.41 q/ha; Sesame – 6.41 q/ha; Mustard- 7.62 q/ha
	Truits and others	Vegetables: Tomato - 183.3 q/ha; Brinjal - 150.1 q/ha; Chilli - 19.89 q/ha
		Fruits: Mango-86.50 q/ha; Litchi-124.5 q/ha; Banana-91.0 q/ha
6	Mean yearly temperature, rainfall,	Temp (Max)- 41°C (May), Temp (Min)- 13°C (Dec)
0	humidity of the district	Rainfall - 1341 mm
L	nonnerty of the district	

		Humidity (Max): 84 % (July), Humidity (Min): 41 % (March)
7	Production of major livestock	Production/year
	products like milk, egg, meat etc.	Meat - 7.1 TMT,
		Milk - 47.26 TMT,
		Egg - 23.34 millions
		Pisciculture: 4985.99 tonnes

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	Talcher	Kaniha	Parabil	Paddy, Groundnut, Greengram, Blackgram, Arhar, Dairy, Goatery, Poultry, etc.	 Paddy- Occurrence of Sheath blight, Root Rot Groundnut-YMV Greengram- YMV, Root rot, aphid Arhar-sucking pest Cow-BQ, FMD Goat-PPR 	management • Increased production and
2	Athamallik	Kishorenagar	Sanjamura	Paddy, Greengram, Blackgram, Onion, Pisciculture, etc.	 infestation of purple blotch Traditional method of fish culture by stocking fingerlings Conventional method of IMC culture without using Pangas 	• Increased production and productivity of Paddy, oilseeds and pulses through

3		Athamallik	Sisukata	Paddy, Vegetables, Greengram, Blackgram, Poultry, Goatery, Pisciculture.	 Pod-borer in pigeonpea Root rot and Aphid problem in green gram Traditional method of fish culture by stocking fingerlings Increased production and productivity of Paddy, oilseeds and pulses through ICM Disease & production management in livestocks Creating avenues for self-employment
4	Angul	Banarpal	Sakosingha	Paddy, Vegetables, Greengram, Blackgram, Poultry, Dairy, Goatery, Pisciculture.	 Incidence of stem borer, blast disease and BPH in paddy YMV in green gram and okra Diamond back moth in cauliflower Fruit and shoot borer in brinjal Wilting in tomato Low milk yield cows Traditional method of fish culture by stocking fingerlings Increased production and productivity of Paddy, oilseeds and pulses through ICM Disease & production management in livestocks Integrated pest & disease management Value addition in fruits & vegetables
5	Angul	Angul	Sana kanjani	Paddy, Greengram, Blackgram, Vegetables, Dairy, Pisciculture.	 Incidence of stem borer, blast disease and BPH in paddy YMV in green gram and okra Fruit and shoot borer in brinjal Wilting in tomato Low milk yield cows Increased production and productivity of Paddy, oilseeds and pulses through ICM Integrated pest & disease management Disease & production management in livestocks Drudgery reduction by using small farm implements

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2021-22) for its development and action plan

Name of village	Block	Action taken for development
Parabil	Kaniha	
Sanjamura	Kishorenagar	Promoted two small scale Kadaknath poultry unit.
		• FLD programme on deworming and supplement feeding in goats was done.
		Training programmes on record keeping in poultry farming
Sisukata	Athamallik	Training programmes conducted on backyard poultry farming
		OFT on influence of probiotic on the growth performance of IMC fingerlings
		Training on use of pro-biotic for growth of IMC fingerlings
Sakosingha	Banarpal	Training on Nutritional Gardening for rural farmwomen
		Training programmes conducted on new trends of feeding in dairy animals
		Training programme on feeding and health management in goats
		Training on Management of mastitis in dairy animals was conducted
		FLD programme on improved backyard poultry farming kadaknath
		Deworming camp was conducted for goats
		OFT on stocking density of <i>Labeobata</i> in composite fish culture system
		Training on use of minor carp species in composite fish culture
		Animal Health Camp
		Demonstration on Hybrid napier cultivation
Sanakanjani	Angul	Training programmes conducted on Care and management of mastitis in animals

2.1 Priority thrust areas

		1110111	till did diddid
	S. No		Thrust area
	1.		Promotion of hybrid and high yielding variety cultivation in vegetables for increasing yield
Ī	2.		Substitution of unsuitable onion varieties with suitable kharif onion variety for increasing kharif onion yield
	3.		Promotion of improved variety of papaya for higher yield
Ī	4.		Popularisation of aromatic crops cultivation

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5.	Micro irrigation for increasing water use efficiency in cultivation of fruits and vegetables
6.	Improved methods of nursery raising in horticultural crops
7.	To utilize the seasonal water bodies & to meet the fish seed demands of the district through fingerling production technique
8.	To enhance productivity of fish through stunted yearling culture technique by repeated stocking & harvesting method
9.	To conserve the native fish sps. Through adoption of diversified Pisciculture Practices
10.	To increase income opportunities for rural youth and farm women by practicing small scale Ornamental fish rearing technique
11.	To develop entrepreneurship through capacity building measures
12	To enhance productivity of egg, milk and meat through scientific approach
13	Increase income opportunities for rural youth and farm women through poultry farming, scientific goat rearing and improved dairy
	managemental practices
14	To solve the problem of poor weight gain in local poultry varieties
15	Reduction in mortality of chicks during brooding by proper brooding management
16	Reduction in kid mortality
17	Improve milk production and quality of milk
18	To develop entrepreneurship through capacity building measures programmes on poultry dairy and goatery
19	Post-harvest technology and value addition of cereals, pulses, oil seeds, vegetables and fruits.
20	Drudgery reduction through use of farm implements.
21	Creating avenues for self-employment through entrepreneurship development.
22	Family food and nutritional security.
23	Production and management of organic input
24	To reduce the wilting incidence in brinjal with proper cultural and chemical practices
25	Identification of key pest and its management with proper cultural and chemical practices as a component of IPM
26	Promotion of improved variety of chilli for higher yield
27	Encourage farmers about need based safe use of pesticides

3. <u>TECHNICAL ACHIEVEMENTS</u>

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

	OFT													FLD										
No. of tech	o. of technologies tested:													No. of technologies demonstrated:										
Nun	ber of OFTs				Num	ber (of fa	rmer	S				Number of FLDs Number of farmers											
Target	Achievement	Target	A	chie	evem	ent							Target	Achievement	Target	Achi	Achievement							
			S	C		ST		Oth	ners	To	tal					SC		ST		Othe	rs	Total		
			N	Л	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
1	1 1	0 8	32	2	2	8	5	60	:	2 44	1 !	5 49	18	17	7 105	3	10	1	. 0	76	10	80	20	100

	Training													Extension activities									
Numl	Number of Courses Number of Participants												Number of activities Number of participants										
Target	Achievement	Target	Target Achievement										Achievement	Target	Achi	Achievement							
			SC		ST		Other	Others Total							SC		ST		Others		Total		
			M	F	M	F	M	F	M F T					M	F	M	F	M	F	M	F	T	
63	59	1490	48	72	40	43	708	465	796	579	1375	1200	1236	7000	533	403	56	48	4343	3224	4932	3675	8607

	In		Impact of Extension activities																		
Number of Participants trained Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)										e/	Number of Participants attended Number of participants got employment (self/wage/entrepreneur/engaged as skilled manpower)								lf/		
Target	Achievement	SC		ST		Other	s	Tot	al		Target	Achievement	SC		ST		Othe	rs	Tota	al	
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T
280	280	5	7	1	1	17	44	23	52	75	200	151	9	4	3	1	97	37	109	42	151

Seed prod	luction (q)	Planting material (in Lakh)				
7.0	ố q	0.28272no.				
Target	Achievement	Target	Achievement			
23 q	7.6 q	0.34	0.28272			

Livestock strains and fish f	ngerlings produced (in lakh)*	Soil, water, plant, manure	s samples tested (in lakh)
Target	Achievement	Target	Achievement
60000 no. fish fingerling	69000 . fish fingerling		
0.03 chicks	0.03093 chicks		

^{*} Give no. only in case of fish fingerlings

			Publication by K	VKs			
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	6	-	6	6.67	5.53		Dr.J.S.P Yadav Best Paper award by ICAR-CSSRI, West Bengal
Seminar/conference/ symposia							
papers							
Books							
Bulletins							
News letter	2	1000					
Popular Articles	1	-					
Book Chapter	1						
Extension Pamphlets/ literature	7	3500					
Technical reports	11	-					
Electronic Publication (CD/DVD etc)							
TOTAL	30	4500	8	6.67	5.53		Dr.J.S.P Yadav Best Paper award by ICAR-CSSRI, West Bengal

1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of nutrient management in groundnut
2.	Problem diagnosed	Low yield in groundnut due to imbalance nutrient application
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	75% STBF + lime 0.2 LR + Biofertilisers (<i>Rhizobium</i> @ 20g/kg of seed + PSB @20g/kg of seed) (Assessed)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	SAU (AINP on soil on Biodiversity and Biofertiliser, OUAT, 2014)
5.	Production system and thematic area	Rice based cropping system, Integrated nutrient management
6.	Performance of the Technology with performance indicators	Plant height, pods/plant, No of nodules/plant, Pod weight/ plant, No of kernels/pod, 100 seed weight, pod yield, net income & B:C ratio
7.	Final recommendation for micro level situation	Integrated use of 75% STBF + lime 0.2 LR + Biofertilisers (<i>Rhizobium</i> + PSB) enhances the growth and yield parameters of groundnut crop resulting in significantly higher pod yield than 100% STBF and Farmer's practice i.e. 3.9 and 16.8% respectively with higher net return (Rs.45,475/ha) net return(1.61)
8.	Constraints identified and feedback for research	Unavailability of biofertilisers in local market
9.	Process of farmers participation and their reaction	Farmers were actively participated and convinced with the integrated use of chemical and biofertilisers as it enhances 16.8% pod yield in groundnut with additional net income of Rs.11,175/ha and decided to practice the technology in next cropping season

Thematic area: Integrated nutrient management

Problem definition: Low yield in groundnut due to imbalance nutrient application

Technology assessed:

Farmers Practice (FP): Imbalanced application of fertilizers (40:28:15 N-P₂O₅-K₂O/ha)
Technology option-I (TO-I): Soil test based fertilizers (STBF)
Technology option-II (TO-II): 75% STBF + lime 0.2 LR + Biofertilisers (*Rhizobium* @ 20g/kg of seed + PSB @20g/kg of seed)

Table: 1

Technology	No. of	Y	ield component		Dry matter	Yield	Cost of	Gross return	Net return	BC
option	trials	No. of	Pod	Test wt.	production		cultivation	(Rs/ha)		ratio
		pods/plant	weight/plant	(100 seed	(g/plant)	(q/ha)			(Rs./ha)	
				weight)			(Rs./ha)			
Farmers Practice	10	16.5	14.2	60	23.1	18.4	67818	102118	34300	1.51
(FP):										
Technology	10	19.2	17.5	64.2	25.2	20.7	72357	114782	42425	1.59
option-I (TO-I):										
Technology	10	20.3	18.2	67.0	26.5	21.5	74082	119557	45475	1.61
option-II (TO-II):										

Results: 75% STBF + lime 0.2 LR + Biofertilisers (*Rhizobium*+ PSB) enhances the growth and yield parameters of groundnut crop resulting in significantly higher pod yield than 100% STBF and Farmer's practice i.e. 3.9 and 16.8% respectively with higher net return (Rs.45,475/ha) net return(1.61)

1.	Title of On farm Trial	Assessment of nutrient management in maize
2.	Problem diagnosed	Low yield in in maize due to heavy weed infestation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Post-emergence application of tembotrion 34.4% SC @100g/ha at 20 DAS (Assessed)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on Weed management, OUAT, 2019-20

5.	Production system and thematic area	Maize based cropping system, Weed management
6.	Performance of the Technology with performance indicators	Plant height, length of cob, no of rows/cob, no of grains/cob, grain yield, no of weeds/m ² , weed dry weight/m ² , weed control efficiency, net income & B:C ratio
7.	Final recommendation for micro level situation	Post-emergence application of tembotrione 34.4% SC @ 100 g/ha at 20 DAS significantly reduced the weed density and weed dry weight resulting 18% higher grain yield and net return (Rs.37,014/ha) over farmer's practice in maize.
8.	Constraints identified and feedback for research	Unavailability of herbicide (Tembitrion 34.4% SC) in local market
9.	Process of farmers participation and their reaction	Farmers were actively participated and convinced with application of herbicide (tembotrione0 as it enhances 18% grain yield in maize over farmers practice with additional net income of Rs.2,670/ha and decided to practice the technology in next cropping season

Thematic area: Weed management

Problem definition: Low yield in in maize due to heavy weed infestation

Technology assessed:

Farmers Practice (FP): One hoeing and earthing up at 20 DAS
Technology option-I (TO-I): Pre-emergence application of pendimethalin 30% EC @ 1.0 kg/ha
Technology option-II (TO-II): Post-emergence application of tembotrione 34.4% SC @ 100 g/ha at 20 DAS (4-5 leaf stage

Table: 2

Technology	No. of	Yield component			Weed	Yield	Cost of	Gross	Net return	BC
option	trials	Length of	No of	Test wt.	density/m ²		cultivation	return		ratio
		cob (cm)	Grains/cob	(100		(q/ha)		(Rs/ha)	(Rs./ha)	

				seed weight)			(Rs./ha)			
Farmers Practice (FP):	10	14.6	291.6	28.3	31.3	42.7	32014	58350	24336	1.72
Technology option-I (TO-I):	10	14.8	301.3	31.3	25.5	48.9	32454	66797	34343	2.06
Technology option-II (TO-II):	10	15.7	305.4	32.1	22.3	50.9	32014	69028	37014	2.16

Results: Post-emergence application of tembotrione 34.4% SC @ 100 g/ha at 20 DAS significantly reduced the weed density and weed dry weight resulting 18% higher grain yield and net return (Rs.37,014/ha) over farmer's practice in maize.

1.	Title of On farm Trial	Assessment on Integrated Management of Sheath Blight in Rice
3.	Problem diagnosed Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Yield loss due to heavy incidence of sheath blight TO ₁ -Seed treatment with thiophanate methyl @ 1.5gm/Kg of seeds. Alternate Spraying of the combination fungicide Azoxystrobin+ difenoconazole (Godiwa super) and thifluzamide @ 1ml/lit at 15 days interval starting from initiation of the
		infection TO ₂ - Alternate spraying of Trifloxystrobin 25%+Tebuconazole 50% 75 WG (Nativo) @ 0.5gm/liter and Propiconazole 13.9% +Difenoconazole 13.9% EC (Taspa) @ 1ml/lit after 30 & 60 DAT (Refined)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT, AICRP Rice, Chiplima-2018
5.	Production system and thematic area	Irrigated medium land, IDM (Integrated Disease Management)

6.	Performance of the Technology with performance indicators	% Disease incidence-7.51, Yield-39.38, BCR-1.53
7.	Final recommendation for micro level situation	Seed treatment should be done properly. Excess dose of fertilizer application should be avoided. Optimum spacing should be maintained. Avoid flow of irrigation water from infected field to main field. Farmers should practice deep ploughing in summer and burning of stubbles
8.	Constraints identified and feedback for research	Farmers were used to apply excess doses of fertilizers,instead of that farmers should go for foliar spraying of recommended fungicides
9.	Process of farmers participation and their reaction	Farmers were interested to know the technology by which the disease can be controlled and they promised to continue the same in the next season.

Thematic area: IDM

Problem definition: Yield loss due to heavy incidence of sheath blight

Technology assessed: Integrated management practices against sheath blight in rice

Table:3

Technology	No. of	Y	ield component		Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of	No. of	Test wt.	insect pest		cultivation	return		ratio
		effective	spikelet per	(100	incidence	(q/ha)		(Rs/ha)	(Rs./ha)	
		tillers/hill	panicle	grain	(%)		(Rs./ha)			
				wt.)						
FP	10				15.26	30.64	36600	45960	9360	1.25
TO_1	10				10.49	33.11	37200	49665	12465	1.33
TO_2	10				7.51	39.38	38500	59070	20570	1.53

Results: Alternate spraying of Trifloxystrobin 25%+Tebuconazole 50% 75 WG (Nativo) @ 0.5gm/liter and Propiconazole 13.9% +Difenoconazole 13.9% EC (Taspa) @ 1ml/lit after 30 & 60 DAT effectively controls the disease incidence in rice and reduce the disease incidence to 7.51%

OFT-4

1.	Title of On farm Trial	Assessment of Fall Army Worm management in maize
2.	Problem diagnosed	Low yield due to high incidence of Fall Army Worm
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO ₁ - Hand picking and destruction of egg masses and neonate larvae and alternate spraying of 1500 ppm Azatirachtin at the initiation of damage and <i>Beauveria bassiana</i> @ 2ml/lit at 10 days interval TO ₂ - Spraying of Chlorantraniliprole 18.5 % SC @ 0.4 ml /lit at the initiation of the infestation followed by a spraying of Emamectin Benzoate 5% SG @ 0.5 gm/lit after 15 days (Assessed)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	NCIPM, Annual Report-2020 ICAR-RC for NEHR, Meghalaya, 2019
5.	Production system and thematic area	Commercial and mixed, IPM
6.	Performance of the Technology with performance indicators	% Damage-22.52,Green cob yield-127.0,BCR-4.6
7.	Final recommendation for micro level situation	Seed treatment should be done by farmers. Need base and alternate use of pesticides should be followed by the farmers for better result.
8.	Constraints identified and feedback for research	Indiscriminate spraying of pesticides should be avoided
9.	Process of farmers participation and their reaction	Farmers accepted the technology demonstrated and promised for need base use of pesticides in time.

Thematic area: IPM

Problem definition: Low yield due to high incidence of Fall Army Worm Technology assessed: Management practices for fall army worm in maize

Table: 4

Technology	No. of	Yield component		Disease/	Yield	Cost of	Gross	Net return	BC	
option	trials	No. of	No. of	Test wt.	insect pest		cultivation	return		ratio
		effective	spikelet per	(100	incidence	(q/ha)		(Rs/ha)	(Rs./ha)	
		tillers/hill	panicle	grain	(%)		(Rs./ha)			
				wt.)						
FP	10				75.8	66.14	40000	145508	105508	3.63
TO ₁	10				44.06	105.3				
					44.86	2	47500	231704	184204	4.87
TO_2	10				22.52	127.0				
					22.52	2	50000	279444	229444	5.58

Results: Hand picking and destruction of egg masses and neonate larvae and Spraying of Chlorantraniliprole 18.5 % SC @ 0.4 ml /lit at the initiation of the infestation followed by a spraying of Emamectin Benzoate 5% SG @ 0.5 gm/lit after 15 days effectively control this notorious pest and gives 20% higher yield than farmers practice

1.	Title of On farm Trial	Assessment of collar rot disease management in Groundnut during Kharif
2.	Problem diagnosed	High incidence of collar rot disease
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO ₁ -Seed treatment with Carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/kg seeds during sowing and need-based spraying of Chlorothalonil 75% WP @ 1.5 gm/lt. and Carbendazim @ 2 gm/lt alternatively at 15 days interval TO ₂ -Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application of T. viride @ 4kg incubated in 50 kg FYM/ha at sowing, broadcasting of T. viride @ 4kg incubated in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. starting from initiation of the diseases and after 15 days

4.	Source of Technology (ICAR/	Ann. Report, OUAT-2016
	AICRP/SAU/other, please specify)	Ann. Report, TNAU-2015
5.	Production system and thematic area	Rainfed upland, IDM
6.	Performance of the Technology with performance indicators	% Disease incidence-7.54, Yield-21.79, BCR-1.99
7.	Final recommendation for micro level	Seed treatment should be done by farmers. Need base and alternate use
	situation	of fungicides should be followed by the farmers for better result.
8.	Constraints identified and feedback for	Indiscriminate spraying of fungicides should be avoided
	research	
9.	Process of farmers participation and their	Farmers accepted the technology demonstrated and promised for need
	reaction	base use of fungicides in time.

Thematic area: IDM

Problem definition: High incidence of collar rot disease

Technology assessed: Management practices for collar rot disease in groundnut

Table: 5

Technology	No. of	Y	ield component		Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of	No. of	Test wt.	insect pest		cultivation	return		ratio
		effective	spikelet per	(100	incidence	(q/ha)		(Rs/ha)	(Rs./ha)	
		tillers/hill	panicle	grain	(%)		(Rs./ha)			
				wt.)						
FP	10				17.25	14.04	45000	58968	13968	1.31
TO_1	10				11.93	18.66	45700	78372	32672	1.71
TO_2	10				7.54	21.79	45900	91518	45618	1.99

Results: Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application of T. viride @ 4kg incubated in 50 kg FYM/ha at sowing, broadcasting of T. viride @ 4kg incubated in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. starting from initiation of the diseases and after 15 days can reduce the disease incidence to 7.54%.

OFT-6

1.	Title of On farm Trial	Assessment of different maize hybrids in Agri-Silvi Agroforestry model
2.	Problem diagnosed	Un-utilization of interspaces in different forest plantations
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Maize hybrids Viz., VNR 4226 and Kalinga Raj are sown at a spacing of 60x30 cm with proper seed treatment and land preparation. These seeds are sown in teak plantation leaving 1ft. from tree base.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Annual Report, OUAT, 2019
5.	Production system and thematic area	Agroforestry management
6.	Performance of the Technology with performance indicators	Gives additional income to the farmers within 4 months besides tree plantation
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	Whether cash crops are to be sown or planted in any agroforestry system
9.	Process of farmers participation and their reaction	At first, they were unwilling to do the task but later on they did to some extent

Thematic area: Agroforestry management

Problem definition: Un-utilization of interspaces in different forest plantations

Technology assessed: Maize hybrids Viz., VNR 4226 and Kalinga Raj are sown at a spacing of 60x30 cm with proper seed treatment and land preparation. These seeds are sown in teak plantation leaving 1ft. from tree base.

Table: 6

Technology	No. of	Yield component		Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of	Test wt.	insect pest		cultivation	return		ratio
		cobs/plant	(100 grain wt.)	incidence	(t/ha)		(Rs/ha)	(Rs./ha)	
				(%)		(Rs./ha)			
VNR 4226	5	2.00	35.2	-	6.21	63,400	1,58,600	95,200	2.5
Kalinga Raj		2.00	41.2	-	7.11	65,300	1,86,500	1,21,200	2.9

Results: OUAT released maize hybrid "Kalinga Raj" has yielded 17 % more than the ruling hybrid "VNR 4226" with no significant disease and pest incidences. This hybrid is performing well in utilized interspaces in different forest plantations

1.	Title of on farm Trial	Assessment of intercropping in mango farming system
2.	Problem diagnosed	Most of the mango plantations are remained vacant and no intercropping is practiced in the farming situation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Pine apple suckers were trimmed and treated with Bavistin and planted between mango trees at as pacing of 60x30 cm. besides this, yam suckers also planted at mango tree base with seed treatment with Bavistin in kharif season.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CHES, 2016
5.	Production system and thematic area	Agroforestry management
6.	Performance of the Technology with performance indicators	Gives additional income to the farmers within 8 months besides mango fruits
7.	Final recommendation for micro level situation	

8.	Constraints identified and feedback for	Wild animals somewhat damaged the pine apple and yam plantation after
	research	fences with wire. So, wild protection to be carried how?
9.	Process of farmers participation and their	Farmers were planted lately after repeated follow up and fruiting comes
	reaction	out very lately.

Thematic area: Agroforestry

Problem definition: Agroforestry management

Technology assessed: Pine apple suckers were trimmed and treated with Bavistin and planted between mango trees at as pacing of 60x30 cm. besides this, yam suckers also planted at mango tree base with seed treatment with Bavistin in kharif season.

Table: 7

Technology	No. of	Yield c	omponent	Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of	Test wt.	insect pest		cultivation	return		ratio
		cobs/plant	(100 grain wt.)	incidence	(q/ha)		(Rs/ha)	(Rs./ha)	
		_		(%)		(Rs./ha)			
Pine apple	5	Cont							
Yam		Cont							

Results:

1.	Title of On farm Trial	Assessment of multi-enzyme mixture and probiotics on growth performance of chickens
2.	Problem diagnosed	High feed consumption in chicken farming. High cost of feeding and unfeasibility of poultry rearing. Low FCR

3.	Details of technologies selected for assessment/refinement	Assessment
	(Mention either Assessed or Refined)	Technology option-I (TO ₁): Feeding of commercial broiler feed (added with probiotics mixture @ 0.05%) @50% of daily requirement and free range feeding for improved gut health and nutrient utilization
		Technology option-II (TO ₂): Feeding of commercial broiler feed (added with multi-enzyme mixture @ 0.05%) @50% of daily requirement and free range feeding and free range feeding improved nutrient utilization
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	PDP, 2017-18 CARI 2017-18
5.	Production system and thematic area	Poultry based & Poultry production and management
6.	Performance of the Technology with performance indicators	FP: Average Body weight at 12 weeks: 1.43 kg TO1: Average Body weight at 12 weeks: 2.13 kg TO1:Average Body weight at 12 weeks: 1.75 kg
		B:C ratio FP: 2.52 T.O ₁ : 3.64 T.O ₂ : 3.0
7.	Final recommendation for micro level situation	Supplementtion of probiotics in poultry feed has positive effect on weight gain performance of chickens reared under semi-intensive system
8.	Constraints identified and feedback for research	Selection of farmers for the trial was a constraint in field situation. For this constraints there should be an provision for carring out the assessment at KVK level at first then it will be tested at farmers field.
9.	Process of farmers participation and their reaction	Farmers took part in the assessment programme with interest. After the end of assessment they are satisfied with the final weight gain noticed in case of poultry birds.

Thematic area: Poultry production & management

Problem definition: High feed consumption in chicken farming. High cost of feeding and unfeasibility of poultry rearing. Low FCR

Technology assessed: Assessment of multi-enzyme mixture and probiotics on growth performance of chickens

Table:8

Technology	No.	of	Y	ield component		Increase	Yield/	Cost of	Gross return	Net return	BC
option	trials		Average	Average Body	Average	over FP (%)	unit of	cultivation	(Rs/ha)		ratio
			Body	weight at 8	Body		40			(Rs./ha)	
			weight at 3	weeks	weight at		birds	(Rs./unit)			
			weeks		12 weeks		(Kg)				
FP (No	15		202 gms	1.16 kg	1.43 kg	-	57.2	4080	10,296	6216	2.52
supplement							kg live				
feeding)							weight				
TO1: Feeding of			306 gms	1.54 kg	2.13 kg	48.95%	85.2	4212	15,336	11,124	3.64
probiotics							kg live				
mixture @							weight				
0.05%											
TO2: Feeding of			242 gms	1.35 kg	1.75 kg	22.37%	70 kg	4195	12,600	8405	3.0
multienxyme							live				
mixture @							weight				
0.05%											

Results: Feeding of commercial broiler feed (added with probiotics mixture @ 0.05%) @50% of daily requirement and free range feeding improved gut health and nutrient utilization with positive effect on weight gain performance of chickens reared under semi-intensive system.

1.	Title of On farm Trial	Assessment of low cost concentrate mixtures to attain correct time puberty in CB Heifers
2.	Problem diagnosed	Improper nutrition to dairy heifer animals leading to delayed puberty
3.	Details of technologies selected for assessment/refinement	FP: Feeding of straw and wheat bran
	(Mention either Assessed or Refined)	T.O ₁ : Straw + Concentrate mixture 1 (Maize-50%, Wheat bran -13%, mustard oil cake- 35%, mineral mix -1%, salt -1%)
		T.O ₂ : Straw + Concentrate mixture 2 (Maize- 0, Wheat bran – 80%, mustard oil cake- 18%, mineral mix -1%, salt -1%)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IGFRI 2017
5.	Production system and thematic area	Livestock based and feed management
6.	Performance of the Technology with performance indicators	FP: Body weight at puberty-244.17 kg;, age at first heat-29 months, conception rate-33.3% TO₁: Body weight at puberty-256.8 kg, age at first heat-26.17 months, conception rate-83.33%
		TO₂: Body weight at puberty-267.17 kg, age at first heat-22 months, conception rate-83.33%
7.	Final recommendation for micro level situation	Continuing
8.	Constraints identified and feedback for research	Continuing
9.	Process of farmers participation and their reaction	Continuing

Thematic area: feed management

Problem definition: Improper nutrition to dairy heifer animals leading to delayed puberty

Technology assessed: Assessment of low cost concentrate mixtures to attain correct time puberty in CB Heifers

Table: 9

Technology	No. of	Y	ield component		Increase	Yield	Cost of	Gross	Net return	BC
option	trials	Body	Age at first	concepti	over FF	/unit	cultivation	return		ratio
		weight at	heat	on rate	(%)	(Kg)		(Rs/ha)	(Rs./ha)	
		puberty					(Rs./ha)			
FP : Feeding	6	244.17 kg;	29 months	33.3%	-	Conti				
of straw and						nuing				
wheat bran										
TO1: Straw +		256.8 kg;	26.17	83.33%	5.17%					
Concentrate			months							
mixture 1										
TO2: Straw +		267.17 kg	22 months	83.33%	9.41%					
Concentrate										
mixture 2										

Results:

1.	Title of On farm Trial	Assessment of different Probiotics on the growth performance of IMC fingerlings
2.	Problem diagnosed	Lower yield and income due to poor growth & survivability status of fish seed
		Unscientific Feed Management
3.	Details of technologies selected for assessment/refinement	Use of Soil probiotic @ 1 kg/ac-m water area
		Use of water probiotic @ 5 Litre/ac-m water area
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR,CIFA,2004
5.	Production system and thematic area	Intensive culture method and feed management
6.	Performance of the Technology with performance indicators	Fish Yield in (no./ha.), % change in yield and B:C ratio
7.	Final recommendation for micro level situation	Use of water probiotic @ 5 Litre/ac-m water area twice daily at the time of feed application for rearing of fingerlings enhanced survival rate of fingerlings by 123.80 %.
8.	Constraints identified and feedback for research	Non availability of quality seed in proper time, Non adoption of scientific techniques by farmers.
9.	Process of farmers participation and their reaction	About 78 Farmers are interested in practising this type of feeding management practice for enhancing the seed survival rate.

Thematic area: Feed management

Problem definition: Unscientific Feed Management, Poor growth & survivability status of fish seed resulting lower yield and income.

Technology assessed: Assessment of different Probiotics on the growth performance of IMC fingerlings

Table: 10

Technology option	No. of trials	Yield component Avg. fish growth after 3 months of observation (Fish wt. in gm)	Change in paramet er (%)	Yield (no./ha) & survival percentage	Cost of cultivati on (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	3	8	-	84000/2 crops/3 month	55000	168000	1,13,000	3.05
TO ₁	3	15	87.5	1,70,000/2 crops/3 months (102.38 %)	70000	3,40,000	2,70,000	4.85
TO ₂	3	18	125	1,88,000/2 crops/3 months (123.80%)	72000	3,76,000	3,04,000	5.22

Results: Use of water probiotic @ 5 Litre/ac-m water area twice daily at the time of feed application for rearing of fingerlings enhanced survival rate of fingerlings by 123.80 %.

Please provide all the OFTs in same format

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area	(ha)			farmers/ stration		Reasons for shortfall in achievement
				Proposed	Actual	SC	ST	Others	Total	
						M F	M F	M F	M F T	
1.	Rice	Varietal evaluation	Demonstration on medium duration HYV rice, Maudamani: CR Dhan 307	1.0	1.0	0- 0	0 -	10-0	10-0-	No

Details of farming situation

Crop	Season	ng situation Trrigated)	oil type		Status of soi (Kg/ha)	1	rious crop	ving date	vest date	nal rainfall (mm)	f rainy days
	Se		So	N	P_2O_5	K ₂ O	Prev	Sov	Har	Seaso	No. of
Rice	Kharif Rainfed medium		Red loam soil	285	10.5	178.2	Rice	28.06.22	14.11.2 2	1056	74

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.

	Thematic	Name of the technology	No. of	Area	Yield	(q/ha)	%	*Ecor	nomics of (Rs.	demonstra/ha)	ation	*I	Economic (Rs.		k
Crop	Area	demonstrated	Farmers	(ha)	Demo	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR

		Demonstration on	10	1.0	48.3	45.8	5.5	98572	62790	35782	1.57	62400	93432	31032	1.50
		medium duration HYV													
	Varietal	rice, Maudamani: CR													
1	evaluation	Dhan 307													
Total			10	1.0	48.3	45.8	5.5	98572	62790	35782	1.57	62400	93432	31032	1.50

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Cross	Thomasic Asso	Name of the technology	No. of	Area	Yield	(q/ha)	%	*Ecor	nomics of (Rs.	demonstr /ha)	ation	*]	Economic (Rs.	s of checha)	k
Crop	Thematic Area	demonstrated	Farmers	(ha)	Demo	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
1	Integrated nutrient management	Demonstration of nutrient management in sunflower	10	1.0	15.6	12.8	21.9	61635	99904	38269	1.62	53885	81945	28060	1.52
Total			10	1.0	15.6	12.8	21.9	61635	99904	38269	1.62	53885	81945	28060	1.52

^{*} 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

		· · · · · · · · · · · · · · · · · · ·													
					Viold	(g/ha)		*Ecc	onomics of	f demonstrat	ion	,	*Economic	es of check	
Cron	Thematic	Name of the technology demonstrated	No. of	Area	1 leiu	(q/IIa)	%		(Rs	./ha)			(Rs	./ha)	
Crop	Area	Name of the technology demonstrated	Farmers	(ha)	Domo	Chaole	Increase	Gross	Gross	Net	**	Gross	Gross	Net	**
					Demo	Check		Cost	Return	Return	BCR	Cost	Return	Return	BCR

1	Blackgram	Demonstration of nutrient management in blackgram	10	1.0	6.47	4.86	33.1	30270	42675	12405	1.25	25810	32056	6246	1.25
	Total		10	1.0	6.47	4.86	33.1	30270	42675	12405	1.25	25810	32056	6246	1.25

^{*} 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 Farm er	Are a (ha)	Yield (q/ha)		%	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo ns ration	Check	chan ge in yield	Demo	Check	Gross Cost	Gross Return	Net Return	** BC R	Gross Cost	Gross Return	Net Return	** BC R
	IDM	Demonstratio n of Integrated	5	2		223.8		% Disease Incidenc e	% Disease Incidenc e								
		management of wilt						3.04									
		complex of Brinjal during							14.12								
Brinjal		Kharif			296.5		32.48			8270 0	3245 44	2418 44	3.9 2	8050 0	2688 84	1883 84	3.3 4
Chilli	IPM	Demonstratio n on	5	2	103.0	81.9	25.8 1	No. of thrips/twig-11.4	No. of thrips/ twig- 24.7								
		management of sucking pest complex						No. of white- fly/ twig-	No. of white- fly/ twig-	7040	1020	2264		6560	0400	1630	1.2
		1						11.92	25	7040 0	1030 40	3264 0	1.4 6	6560 0	8190 0	1630 0	1.2 4

		in Chilli						No. of aphids/ twig- 11.46	No. of aphids/ twig- 14.86								
Banana	IDM	Demonstrat ion of IDM practice for manageme nt of Sigatoka disease in Banana	5	2	383.4	288.9	32.6 9	% Disease Incidenc e 12.74	% Disease Incidenc e 23.7	1456 80	3067 36	1610 56	2.1	1365 10	2311 52	9464 2	1.6
Greengr am	IDM	Demonstrat ion on manageme nt of root rot in greengram	5	2	7.3	5.86	24.5	% damage 11.16	% damage 22.28	2620 0	5110 0	2490 0	1.9	2340 0	4102 0	1762 0	1.7
Cashew apple	IPM	Demonstrat ion on manageme nt of tea mosquito bug	5	2	281.9	178.9 6	57.5 3	% Infestati on 11.96	% Infestati on 23.02	4820 0	1409 60	9276 0	2.9	4560 0	8948 0	4388 0	1.9
Chilli	Productio n managem ent	Chilli seedlings (Arka Harita) are planted at a spacing of 90x60x45 cm in the paired row system, using ropes marked at 60 cm spacing	5	0.4				43.5 cm	25.8 cm	1,24,90				1,02,50 0			

Turmeric+man	A C	C11:4	_	0.4			64.5 cm	1 20 10	I		I	1	ı	- 50
	Agrofores	Small pits are	5	0.4		-	04.5 cm	1,28,10						
go	try	made with a hand						0						
	managem	hoe on the beds												
	ent	with a spacing of												
		15 cm x 30 cm.												
		Pits are filled with												
		well decomposed												
		cattle manure or												
		compost, seed												
		rhizomes are												
		placed over it then												
		covered with soil.												
		The optimum												
		spacing is 30 - 45												
		cm between the												
		rows and 25 cm												
		between the												
		plants.												
		piants.												
Bamboo	Productio	Culm cuttings are	5		Cont									
Daniooo	n manage	prepared during	3		Cont									
	ment	January to												
	ment													
		February and after 6 months it will be												
		ready for												
		plantation. Rotted												
		culm cuttings are												
		planted at 6 x 6 m												
		during July to												
		August following												
		all the												
		recommended												
		cultural operations												
		_												
		Total												

Livestock

Category	Thematic	Name of the	No.	No. of	Major	%	Other parameter	*Economics of demonstration (Rs.)	*Economics of check
Category	area	technology	of	units	parameters	change	Other parameter	*Economics of demonstration (Rs.)	(Rs.)

		demonstrate d	Farm er		Demo ns ration	Check	in major parame ter	Demon s ration	Check	Gross Cost	Gross Return	Net Return	** BC R	Gross Cost	Gross Return	Net Return	** BC R
Dairy	Feed &	Demonstrati	5	5 (20	Avera	Avera	13.9%	-	-	3040/co	7332/co	4,292	2.4	3084/co	6430/co	3,348/c	2.1
	fodder	on on		cows)	ge	ge				w	w	/cow		w	w	ow	
	technologie	Hybrid			daily	daily											
	S	Napier (CO-			milk	milk											
		4) fodder			yield-	yield-											
		production			6.11	5.36 lt											
		for low cost			lts												
		milk															
		production															
		in dairy															
		cows															
Cow																	
Buffalo																	
Poultry	Poultry	Demonstrati	5	5 (100	Avera	Avera	16.56%	Mortali	Mortality	5440/-	13061/-	7621/-	2.4	4340/-	9768/-	5428/-	2.2
	Manageme	on on		birds/un	ge	ge		ty %-	%- 15%								
	nt	artificial		it)	body	body		2.5%									
		brooding			weight	weight											
		management			at 16	at 16											
		in chicks			weeks-	weeks-											
					1.97	1.69											
					kg	kg											

Poultry	Poultry	Demonstrati	5	5(40	Avera	Avera	47.94	-	-	4232/u	15,552/u	11 220	3.6	4100/u	10,512/u	6,412	2.5
	Manageme	on on		birds/un	ge	ge	%			nit	nit	11,320	3.6	nit	nit	6,412	2.5
	nt	probiotics		it)	body	body							7				6
		supplementa			weight	weight											
		tion on			at 12	at 12											
		growth			weeks-	weeks-											
		performance			2.16	1.46											
		of chickens			kg	kg											
		in semi-			C												
		intensive															
		rearing															
		system															
		(Breed-															
		Barred															
		Plymouth															
		rock)															
		,															
Rabbitry Pigerry																	
Sheep	Animal	Demonstrati	5	5 (3	Weani	Weani	28.06%	Kid	Kid	18,180/	43,674/1	25,494/	2.4	13,500/	29,400/1	15,900/	2.1
and goat	Nutrition	on on		goats/un	ng	ng		mortali	mortality	15	5 goats	15		15	5 goats	15 goats	7
	Managem	concentrate		it)	body	body		ty % -	%-	goats		goats		goats			
	ent	feeding in			weight	weight		3.3%	16.66%								
	Cit	mother goats			of	of											
		(Does) for			kids-	kids-											
		reducing kid			5.02	3.92											
		mortality			kg	kg											
Duckery																	
Others																	
(pl.speci																	
fy)															<u> </u>		

Total									
									i

^{*} 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

		Name of the	No. of	No. of	Major pa	arameters	% change	Other pa	arameter	*Ecoi	nomics of der	nonstration (Rs.)		*Economics (Rs.		
Category	Thematic area	technology demonstrated	Farme r	unit s	Demons ration	Check	in major paramet er	Demon s ration	Check	Gross Cost	Gross Return	Net Return	** BC R	Gross Cost	Gross Return	Net Return	BC R
IMC	Production	Demonstrati	05	02	Yield	Yield	113.95	Wt.	Wt.	6000	3,68,00	3,08,00	6.1	5000	1,72,00	12200	3.4
Fingerlin	Manageme	on on			(fingerlin	(fingerlin		after 3	after 3	0	0	0	3	0	0	0	4
gs	nt	fingerling			gs no.	gs		month	month								
		raising of in			/ha.) =	no./ha.) =		s (gm)	s (gm)								
		seasonal			1,84,000 /	86,000 / 2		=	=								
		ponds			2 crops/3	crops / 3		20	08								
					months	months											
Mussels																	
Ornamental fishes																	
Others (GIFT	Production Manageme nt	Demonstrati on on growth performance of Monosex Nile Tilapia through the use of floating feed	05	05	30.2	17.5	72.57	Wt. of after 2 month s (gm) = 165	Wt. after 2 month s (gm) = 50	8500	302000	217000	3.5	7000	175000	10500	2.5

	T	T		~ ~	T	40.4						10.1000		=		10110	
	Production	Demonstrati	05	05	41.2	18.6	121.5	Wt. of	Wt.	9000	576800	486800	6.4	7600	260400	18440	3.4
	Manageme	on on						after 6	after 6	0				0		0	3
	nt	stocking						month	month								
		density of						s (gm)	s (gm)								
		Labeo bata						=	=								
		in composite						840	390								
		fish culture															
		system															
Amur Carp																	
		Total	15	12													

^{*} 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

C :	Name of the	No. of	No. of	Major par	rameters	% change	Other pa	rameter	*Econor	nics of den Rs./		(Rs.) or			ics of chec r Rs./unit	k
Category	technology demonstrated	Farmer	units	Demons ration	Check	in major parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Enterprise development															
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl. specify)																
	Total															
	o be worked out OSS RETURN/C			of product	ion per un	it area and n	ot on critica	al inputs a	lone.							

Women empowerment

Catalana	Name of tools also.	No of domestications	Observa	tions	Demonles
Category	Name of technology	No. of demonstrations	Demonstration	Check	Remarks
Farm Women					
Pregnant women					
Adolescent Girl					
Other women					

Children			
Neonatal			
Infants			

Farm implements and machinery

Name of the	Crop	Name of the technology	No. of	Area	Filed obs (output/m		% change in major	La	bor reduction	on (man day	rs)	Cost red	luction (Rs./	ha or Rs./U	Jnit)
implement	Сюр	demonstrated	Farmer	(ha)	Demons ration	Check	parameter								

^{*} 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) / r	najor pai	rameter		Economic	s (Rs./ha)	
Cereals				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (Pl. specify)										
Total										
Oilseeds										
Castor										
Mustard										

					
Safflower					
Sesame					
Sunflower					
Groundnut					
Soybean					
Others (Pl. specify)					
Total					
Pulses					
Green gram					
Black gram					
Bengal gram					
Red gram					
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
1.	Rice	Farmers appreciated the HYV rice cv-Maudamani as it produced 5% higher yield in comparison to existing old variety MTU1001and higher panicle length and grain number per panicle and non-lodging
2.	Sunflower	Farmers appreciated the technology of integrated use of STBF + Lime 0.2 LR + FYM @ 5t/ha + Sulphur 40kg/ha+Biofertiliser in sunflower as it produced 21.9 % higher grain yield with additional net return of Rs.10209/ha as compared to local check
3.	Blackgram	Farmers appreciated the technology of application of 75% STBF + Foliar spray of WSF (18:18:18) @ 2% at 25 and 40 DAS in blackgram as it produced 33.1 % higher grain yield with additional net return of Rs.6159/ha as compared to local check
4.	Brinjal	Wilting disease is very common in solanaceous vegetable.to keep this disease under control it is necessary to follow proper integrated disease management practices including need based use of fungicides
5.	Chilli	Sucking pest attack in chilli leads to leaf curl which is a very common problem in angul district. Cultural practices, organic pest control strategies and Need based use of chemical practice can control the pest population effectively
6.	Banana	Sigatokka disease in banana is widely spread in angul district.Before going for spraying it is very necessary to clean and cut off the dried plant leaves
7.	Greengram	Grrengram root rot is commonly observed in rabi season at angul district proper need base use of fungicides should be sprayed as per scientist recommendation
8.	Cashew apple	TMB are very common problem found in angul district so alternate and need base use of pesticides was recommended at flushing and flowering stage.
9.	Turmeric	Turmeric grown well under mango plantation if proper care and fertigation will be done
10.	Chilli	This variety though resistant but affected by thrips so many times. So proper care should be carried out.
11.	Poultry	Brooding management in semi-intensive poultry will be helpful in reducing early chick mortality and higher weight gain in birds
12.	Goatery	concentrate feed for does during late gestation and early lactation periods created positive impact on growth performance of kids and reduced kid mortality
13.	Dairy	Cultivation of Hybrid Napier var CO4 and feeding to dairy cows has increased the milk yield upto 13.9%.
14.	Poultry	Probiotics supplementation improved gut health and nutrient utilization with positive effect on weight gain performance of chickens reared under semi-intensive system.
15.	Amur Carp fish with IMC	About 48 no. of farmers of Chhendipada, Banarpal & Kishorenagar block of Angul District are interested to adopt the culture practice of Amur Carp fish due to its fast growth rate i.e. 800-900 gm within 6 months. So more Trg. & demonstration programmes need to be conducted to enhance the knowledge regarding economic benefits of Diversified fish culture practices i.e. Amur Carp, Labeo bata, Labeo gonious, Puntius gonionotus & jayanti rohu etc.
16.	IMC Fingerlings	Though the fingerling raising technique does a short term income generating avenue with more profit from a small area with less time period, so farmers (68 no.) comprising 12.8 ha. area and Women SHG groups (12) are very much interested for practising this technique to get more income by utilizing the small seasonal water bodies.

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training	21.09.2022, 05.11.2022, 10.1.22, 4.2.22, 6.8.22, 16.8.22-17.8.22, 12.9.22, 28.10.22, 6.8.22, 25.8.22, 03.11.22, 09.12.22, 23.02.22	13	325	
3.	Media coverage				
4.	Training for extension				
	functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2022 and Rabi 2021-22:

A. Technical Parameters:

Sl	Crop	Existi	Exist	Yield	gap (Kg/ha)	Name of Variety	Num	Area		l obtai	ned		eld ga _l	
	demonst	ng	ing		w.r.to)	+ Technology	ber	in ha	((q/ha)		mi	nimize	d
N	rated	(Farm	yield	Dist	Sta	Poten	demonstrated	of						(%)	
о.		er's)	(q/ha	rict	te	tial		farm		Ma	Mi	Av	D	S	P
		variet)	yiel	yie	yield		ers		х.	n.	11,			
		у		d	ld	(P)				Λ.	11.	•			
		name		(D)	(S)	, ,									
1.	Ground		14.5	14.	14	26	Use of HYV	1.	Groun		14.	14	14	26	
	nut			7	.6		seed : Dharani		dnut		5	.7	.6		
	(Kharif,			,	.0		,Seed treatment		(Kharif			• /	.0		
	22)						with bio-control		,22)						
	22)						agent		,22)						
							Trichoderma								
							viride @ 10								
							gm/kg of seeds								
							and seed dressing with bio-								
							fertilisers like								
							Rhizobium								
							@20g/kg and								
							PSB @25g/kg								
							Spraying of								
							Imazethapyr @								
							1lit /ha for weed								
							control at 20								
							DAS, Application								
							of Boron 20%@ 1								
							kg/ha and Sulphur								
							@ 1 lit/ha at pre-								
							flowering								
							stage,Spraying of								
							Carbendazim +								
							Mancozeb @								
							1kg/ha against Tikka disease,								
							Spraying of								
							Thiomethoxam								
							@160 g/ha								
							against Aphids								
							vegetative stage,								

	ı	1	1	1			T = -	1	T	T			1		10
							Spraying of Cartap hydrochloride@1 kg/ha against Red hairy caterpillar at pod formation stage								
2	Sesame (Kharif, 22)		4.15	3.9	3. 99	16.1	Use of HYV seed: GT 6, Seed dressing with biofertilizers (Rhizobium @ 20g and PSB @ 25g /kg seed), Application of micronutrients (Boron 20.5% @ 1.0 kg/ha and Zinc 21 % @ .2.0 kg/ha at preflowering stage) as foliar spray, Application of herbicide (Spraying of Imazethapyr 10% SL @ 1litre/ha at 20 DAS) for effective control of weed, Plant protection measures (Spraying of Thiomethoxam @ 160g/ha against thrips, Spraying of Cartap hydrochloride 50% SP@ 1kg/ha against leaf webber and capsule borer at pod formation stage	2	Sesam e (Kharif , 22)		4.1 5	3. 96	3. 99	16.	
3.	Blackgr am (Kharif, 22)	Khunt i biri	4.2	-42	35	1080	Use of HYV: PU 31 (Farmers' share); Seed dressing with bio- fertilizer (Rhizobium @20g and PSB @ 25g /kg seed); Application of herbicide(Sprayin g of Imazethapyr 10% SL	3.	Blackg ram (Kharif ,22)	Khu nti biri	4.2	42	35	108	

DAS) for effective control of weed); Application of micronutrient (Boron 20.5% @ 1.0 kg/ha at pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids, Spraying of Cartap hydrochloride 50%SP@ 1kg/ha against pod borer at pod formation stage and Carbendazim 12% + Mancozeb 63% @ 1kg/ha for powdery mildew) 4. Pigeomp Nati 8.9 -80 - Use of HYV: pea hard (Kharif, 22) A. Pigeomp Nati 8.9 -80 - Horo formation stage and Carbendazim 12% + Mancozeb 63% @ 1kg/ha for powdery mildew) Seed dressing with bio-fertilizer (Khizobiam @ 20g and PSB @ 25g /kg seed); Application of herbicide(Sprayin g of Imazethapyr 10% SL @ 1litre/ha at 20 DAS) for		т	1	ı	1	1		T =	1	1	1	1	1	1	1	
effective control of weed); Application of micronutrient (Boron 20.5% @1.0 kg/ha at pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @160g/ha against aphids, Spraying of Cartap hydrochloride 50% SP@1kg/ha against pab dorer at pod formation stage and Carbendazim 12% + Mancozeb 63% @1kg/ha for powdery mildew) 4. Pigeonp Nali 8.9 -80 - Use of HYV: 4 Pigeon Nali 8.9								@1litre/ha at 20								
of weed); Application of micronutrient (Boron 20.5% @1.0 kg/ha at pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids, Spraying of Cartap hydrochloride 50% SP@ 1kg/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @1kg/ha for powdery mildew) 4. Pigeonp ea (Kharif, 22) 4. Pigeonp (Samarada) 4. Pigeonp (Cartap) A (Carbendazim) 12%+ Mancozeb 63% @1kg/ha for powdery mildew) 50% SP@ 1kg/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @1kg/ha for powdery mildew) 4. Pigeon Nali (Samarada) (Kharif, 22) 4. Pigeon Nali (Kharif, 22) 5. Ced dressing with bio-fertilizer (Rhizobium @20g and PSB @ 25g /kg seed); Application of herbicide(Sprayin g of Imazethapyr 10% SL @1 litre/ha at 20 DAS) for																
Application of micronutrient (Boron 20.5% @1.0 kg/ha at pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @160g/ha against aphids, Spraying of Cartap hydrochloride 50% SP@1kg/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% 0 kg/ha for powdery mildew) 4. Pigeonp Nali can be a ca																
Micronutrient (Boron 20.5% @ 1.0 kg/ha at pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids, Spraying of Cartap hydrochloride 50% SP@ 1kg/ha against pod borer at pod formation stage and Carbendazim 12% + Mancozeb 63% @ 1kg/ha for powdery mildew) 4. Pigeonp Nali 8.9 -80 - Use of HYV: 4 Pigeon Nali 8.9																
(Boron 20.5% @ 1.0 kg/ha at pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids, Spraying of Cartap hydrochloride 50% SP@ 1kg/ha against aphid of Ormation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew) 4. Pigeonp Nali 8.9 -80 - Use of HYV: 4 Pigeon hara 80 63 1610 PRG 176 (ICARDA share); Seed dressing with bio-fertilizer (Rhizobium @ 20g and PSB @ 25g /kg seed); Application of herbicide(Sprayin g of Imazethapyr 10% SL @ 11mz/ha at 20 DAS) for																
## Pigeonp Nali 8.9 -80 - Use of HYV: 4 Pigeon harada (Kharif, 22) ## Pigeonp Nali 8.9 -80 - Use of HYV: 4 Pigeon harada (Kharif, 22) ## Pigeonp Nali 8.9 -80 - Osa 1610 PRG 176 (ICARDA share); Seed dressing with bio-fertilizer (Rhizoblum @20g and PSB @ 25g /kg seed); Application of herbicide(Sprayin g of Imazethapyr 10% SL. @ Ilitre/ha at 20 DAS) for																
pre-flowering stages); Plant protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids, Spraying of Cartap hydrochloride 50%SP@ lkg/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ lkg/ha for powdery mildew) 4. Pigeonp Nali 8.9 -80 - Use of HYV: 4 Pigeon pea hara (Kharif, 22) 4. Pigeonp Nali 8.9 -63 1610 PRG 176 (ICARDA share); Seed dressing with bio-fertilizer (Rhizobium @ 20g and PSB @ 25g /kg seed); Application of herbicide(Sprayin g of Imazethapyr 10% SL @ Ilitre/ha at 20 DAS) for																
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hydrochloride 50% SP@ 1kg/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew 4. Pigeon Nali 8.9 -80 - Use of HYV : 4 Pigeon Nali 8.9 - - - - -								Spraying of								
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against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew) 4. Pigeonp Nali 8.9 -80 - Use of HYV: 4 Pigeon pea hara (Kharif, 22) 4. Pigeonp Nali harada (Kharif, 22) 4. Pigeonp Nali 8.9 - Osa - Osa 1610 PRG 176 (ICARDA share); Seed dressing with bio-fertilizer (Rhizobium @20g and PSB @ 25g /kg seed); Application of herbicide(Sprayin g of Imazethapyr 10% SL @1litre/ha at 20 DAS) for								hydrochloride								
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A. Pigeonp Nali 8.9 -80 - Use of HYV 4 Pigeon Nali 8.9 - - -								against pod borer								
A. Pigeonp Nali 8.9 -80 -8								at pod formation								
12%+ Mancozeb 63% @ 1kg/ha for powdery mildew								stage and								
4. Pigeonp Nali 8.9 -80 - Use of HYV: 4 Pigeon Nali 8.9																
A. Pigeonp Nali 8.9 -80 - - Use of HYV : 4 Pigeon Nali 8.9 - - - - - - - - -								12%+ Mancozeb								
4. Pigeonp Nali 8.9 -80 - Use of HYV: 4 Pigeon pea hara (Kharif, 22) 4. Pigeonp harada (Kharif, 22) 4. Pigeonp harada (ICARDA share); Seed dressing with bio-fertilizer (Rhizobium @20g and PSB @ 25g /kg seed); Application of herbicide(Sprayin g of Imazethapyr 10% SL @1litre/ha at 20 DAS) for								63% @ 1kg/ha for								
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(Kharif, 22) (ICARDA share); (Kharif da) Seed dressing with bio-fertilizer (Rhizobium @20g and PSB @ 25g /kg seed); Application of herbicide(Sprayin g of Imazethapyr 10% SL @1litre/ha at 20 DAS) for						63	1610			_			80	63	161	
Seed dressing with bio-fertilizer (Rhizobium @20g and PSB @ 25g /kg seed); Application of herbicide(Sprayin g of Imazethapyr 10% SL @1litre/ha at 20 DAS) for																
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and PSB @ 25g /kg seed); Application of herbicide(Sprayin g of Imazethapyr 10% SL @ 1litre/ha at 20 DAS) for																
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10% SL @1litre/ha at 20 DAS) for																
@1litre/ha at 20 DAS) for																
DAS) for																
ı ı l l l l ettective control l l l l l l l								effective control								
of weed);																
Application of																
secondary &																
micronutrient																
(Sulphur 80%																
WDG @								_								
1.0kg/ha, Boron																
20.5% @1.0																
kg/ha and Zinc																
21% @ 2.5 kg/ha																
at pre-flowering																
stages); Plant																
stages), Flaiit	1							stages), rialli	I					1	1	

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protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids/white fly , Spraying of Cartap hydrochloride 50%SP@ 1kg/ha and Trichogramma chilonis 10 cards/ha against pod borer at pod	
(Spraying of Thiamethoxam @ 160g/ha against aphids/white fly , Spraying of Cartap hydrochloride 50%SP@ 1kg/ha and Trichogramma chilonis 10 cards/ha against	
Thiamethoxam @ 160g/ha against aphids/white fly , Spraying of Cartap hydrochloride 50%SP@ 1kg/ha and Trichogramma chilonis 10 cards/ha against	
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Spraying of Cartap hydrochloride 50% SP@ 1kg/ha and Trichogramma chilonis 10 cards/ha against	
Cartap hydrochloride 50%SP@ 1kg/ha and Trichogramma chilonis 10 cards/ha against	
hydrochloride 50% SP@ 1kg/ha and Trichogramma chilonis 10 cards/ha against	
50% SP@ 1kg/ha and Trichogramma chilonis 10 cards/ha against	
and Trichogramma chilonis 10 cards/ha against	
Trichogramma chilonis 10 cards/ha against	
chilonis 10 cards/ha against	
cards/ha against	
pod borer at pod	
formation stage	
and Carbendazim	
12%+ Mancozeb	
63% @ 1kg/ha for	
powdery mildew	
5. Ground 16.5 19. 19 37 Use of HYV seed 5. Groun 16 19 19	37
nut 7 .8 of dnut .5 .7 .8	<i>"</i>
(Rabi, 22) / .8 groundnut:Dharan (Rabi, .5 .7 .8	
i(Farmers' share), 22 23)	
with bio-control	
agent Trichoderma	
viride @10g/kg of	
seed;	
Application of	
herbicide(Sprayin	
g of Imazethapyr	
@1 litre/ha for	
effective control	
of weed) 5. Application of	
Application of Sulphur@1 kg/ha	
at pre-flowering	
stages);	
Application of Application of	
micronutrient(Bor	
on 20% @ 1.0	
kg/ha at pre-	
flowering stage	
Plant protection measures(Sprayin	
g of Cartap	
hydrochloride@1	
kg/ha against	
Bihari caterpillar	
at pod formation	
stage,	
carbendazim+Ma	
ncozeb @1 kg/ha	
for Tikka disease, thiamethoxam	
unamenoxam	

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			160g/ha against					
			thrips and					
			Trichogramma					
			chilonis-10					
			cards/ha)					

B. Economic parameters

		paramete							
S1.	Variety	l	Farmer's Ex	isting plot			Demoi	nstration plo	t
No.	demonstra								
	ted &	Gross	Gross	Net	B:C	Gross	Gross	Net	B:C
	Technolog	Cost	return	Return	ratio	Cost	return	Return	ratio
	у	(Rs/ha)	(Rs/ha)	(Rs/ha)		(Rs/ha)	(Rs/ha)	(Rs/ha)	
	demonstra						(,		
	ted								
	teu								
	TT C	40.400	05.410	26,000	1.76				
1.	Use of HYV seed:	48,430	85,410	36,980	1.76	58305	107628	49323	1.85
	Dharani								
	,Seed								
	treatment								
	with bio-								
	control								
	agent								
	Trichoderm								
	<i>a viride</i> @ 10 gm/kg								
	of seeds								
	and seed								
	dressing								
	with bio-								
	fertilisers								
	like								
	Rhizobium								
	@20g/kg and PSB								
	@25g/kg								
	Spraying,								
	of								
	Imazethapy								
	r @ 1lit /ha								
	for weed								
	control at								
	20 DAS,								
	Application of Boron								
	20%@1								
	kg/ha and								
	Sulphur @								
	1 lit/ha at								
	pre-								
	flowering								
	stage,Spray								
	ing of Carbendazi								
	m +								
	Mancozeb								
	@ 1kg/ha								
	against								
	Tikka								

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									54
	disease, Spraying of Thiometho xam @160 g/ha against Aphids vegetative stage, Spraying of Cartap hydrochlori de@1 kg/ha against Red hairy caterpillar at pod formation stage								
2.	Use of HYV seed: GT 6, Seed dressing with bio- fertilizers (Rhizobium @20g and PSB @ 25g /kg seed), Appli cation of micronutrie nts (Boron 20.5% @1.0 kg/ha and Zinc 21 % @.2.0 kg/ha at pre- flowering stage) as foliar spray, Appli cation of herbicide (Spraying of Imazethapy r 10% SL @1litre/ha at 20 DAS) for effective control of weed, Plant protection measures (Spraying of Thiometho	22,800	32,495	9,694	1.43	27850	42877	15027	1.54

									53
	xam @ 160g/ha against thrips, Spraying of Cartap hydrochlori de 50% SP@ 1kg/ha against leaf webber and capsule borer at pod formation stage								
3.	Use of HYV: PU 31 (Farmers' share); Seed dressing with bio- fertilizer (Rhizobium @20g and PSB @ 25g /kg seed); Application of herbicide(S praying of Imazethapy r 10% SL @1litre/ha at 20 DAS) for effective control of weed); Application of micronutrie nt (Boron 20.5% @1.0 kg/ha at pre- flowering stages); Plant protection measures	20450	27720	7270	1.36	23650	34980	11330	1.48

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(Spraying of Thiametho xam @								
Thiametho								
		i						
$x_{a_{111}} \omega$								
160g/ha								
against								
aphids,								
Spraying Spraying								
de								
50%SP@								
1kg/ha								
against pod								
borer at								
	10888	58740	17852	1 11	48641	80520	31970	1.66
	40000	J0/4U	1/032	1.44	TUU#1	00320	310/9	1.00
share);								
Seed								
dressing								
with bio-								
fertilizer								
(Rhizobium								
for								
effective								
control of								
weed);								
Application								
of								
secondary								
	of Cartap hydrochlori de 50%SP@ 1kg/ha against pod borer at pod formation stage and Carbendazi m 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew) Use of HYV: PRG 176 (ICRIDA share); Seed dressing with bio- fertilizer (Rhizobium @ 20g and PSB @ 25g /kg seed); Application of herbicide(S praying of Imazethapy r 10% SL @ 1litre/ha at 20 DAS) for effective control of weed); Application of	of Cartap hydrochlori de 50%SP@ 1kg/ha against pod borer at pod formation stage and Carbendazi m 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew) Use of HYV: PRG 176 (ICRIDA share); Seed dressing with bio- fertilizer (Rhizobium @ 20g and PSB @ 25g /kg seed); Application of herbicide(S praying of Imazethapy r 10% SL @ 1litre/ha at 20 DAS) for effective control of weed); Application of	of Cartap hydrochlori de 50%SP@ 1kg/ha against pod borer at pod formation stage and Carbendazi m 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew) Use of HYV: PRG 176 (ICRIDA share); Seed dressing with bio- fertilizer (Rhizobium @ 20g and PSB @ 25g /kg seed); Application of herbicide(S praying of Imazethapy r 10% SL @ 1litre/ha at 20 DAS) for effective control of weed); Application of	of Cartap hydrochlori de 50%SP@ 1kg/ha against pod borer at pod formation stage and Carbendazi m 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew) Use of HYV: PRG 176 (ICRIDA share); Seed dressing with bio- fertilizer (Rhizobium @20g and PSB @ 25g /kg seed); Application of herbicide(S praying of Imazethapy r 10% SL @1litre/ha at 20 DAS) for effective control of weed); Application of	of Cartap hydrochlori de 50%SP@ lkg/ha against pod borer at pod formation stage and Carbendazi m 12%+ Mancozeb 63% @ lkg/ha for powdery mildew) Use of HYV: PRG 176 (ICRIDA share); Seed dressing with bio- fertilizer (Rhizobium @ 20g and PSB @ 25g /kg seed); Application of herbicide(S praying of Imazethapy r 10% SL @ litre/ha at 20 DAS) for effective control of weed); Application of weed); Application of	of Cartap hydrochlori de S0%SP@ 1kg/ha against pod borer at pod formation stage and Carbendazi m 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew) Use of HYV: PRG 176 (ICRIDA share); Seed dressing with biofertilizer (Rhizobium @ 20g and PSB @ 25g /kg seed); Application of herbicide(S praying of Imazethapy r 10% SL @ 1litre/ha at 20 DAS) for effective control of weed); Application of weed); Application of	of Cartap hydrochlori de 50%SP@ 1kg/ha against pod borer at pod formation stage and Carbendazi m 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew) Use of HYY : PRG 176 (ICRIDA share); Seed dressing with biofertilizer (Rhizobium @20g and PSB @ 25g /kg seed); Application of herbicide(S praying of Imazethapy r 10% SL @1litre/ha at 20 DAS) for effective control of weed); Application of feeficitive control of weed); Application of feeficitive control of weed); Application of	of Cartap hydrochlori de 50%SP@ ltg/ha against pod borer at pod formation stage and Carbendazi m 12%+ Mancozeb 63% @ ltg/ha for powdery mildew) Use of HYY: PRG 176 (ICRIDA share); Seed dressing with biofertilizer (Rhizobium @20g and PSB @ 25g /kg seed); Application of herbicide(S praying of Imazethapy r 10% SL @ llitre/ha at 20 DAS) for effective control of weed); Application of f effective control of weed); Application of f

	&								
	micronutrie								
	nt (Sulphur								
	80% WDG								
	@								
	1.0kg/ha,								
	Boron								
	20.5%								
	@1.0 kg/ha								
	and Zinc								
	21% @ 2.5								
	kg/ha at								
	pre-								
	flowering								
	stages);								
	Plant								
	protection								
	measures								
	(Spraying								
	of								
	Thiametho								
	xam @								
	160g/ha								
	against								
	aphids/whit								
	e fly ,								
	Spraying								
	of Cartap								
	hydrochlori								
	de								
	50%SP@								
	1kg/ha and								
	Trichogram								
	ma chilonis								
	10 cards/ha								
	against pod								
	borer at								
	pod								
	formation								
	stage and								
	Carbendazi								
	m 12%+								
	Mancozeb								
	63% @								
	1kg/ha for								
	powdery								
	mildew								
5.	Use of	56440	96525	40085	1.71	59541	121703	62162	2.04
	HYV seed								
	of groundnut:								
	Dharani(Fa								
	rmers'								
	share),								
	Seed								
							•		

treatment with bio- control agent Trichoderm a viride @ 10g/kg of sccd; Application of herbicide(S praying of Imazethapy r @ 1 litreha for effective control of weed) 5. Application of Sulphur @ 1 kg/ha at pre- litwering stages); Application of filmicromutric nn(Boron 20% @ 1.0 kg/ha ut pro- flowering stages); Application of of control of micromutric nn(Boron 20% @ 1.0 kg/ha ut pro- flowering stage Plant protection measures/S praying of Cartap hydrocelhori do@1 kg/ha against Bihari cateryillar ul of formation stage caenedazi m-Moncoz eb @ 1 kg/ha against bihari cateryillar ul of formation stage caenedazi m-Moncoz eb @ 1 kg/ha against bihari cateryillar ul of formation stage caenedazi m-Moncoz eb @ 1 kg/ha against bihari cateryillar ul of formation stage caenedazi m-Moncoz eb @ 1 kg/ha for Trikka disease. diamethox an 100g/ha against thirps and Trichogram ma chilonis-1 O					50
control agent Trichoderm a viride @10g/kg of seed: Application of herbicide(S praying of limazethapy r @1 litre/ha for effective control of weed) \$ \$ Application of Suphur @1 kg/ha at pre- flowering stages); Application of of micronutric an(Boron 20% @1.0 kg/ha at pre- flowering stages) Application of Crital physhochori de@1 kg/ha at pre- flowering stages) Suphur @1 kg/ha at pre- flowering stages) Application of micronutric an(Boron 20% @1.0 kg/ha at pre- flowering stage Plant protection measures(S praying of Curtup bydrochlori de@1 kg/ha against Bihari caterpillar at pod formation stage . carbenduzi m+Maneoz eb @1 kg/ha for Trikhsa disease, thiumethox am 160g/ha against thrips and Trichogram ma chiloins-10					
agent Trichoderm a viride @ log/skg of seed: Application of berbicides(S praying of Irmacthupy r e l limer-ha for effective control of weed! 5. Application of Sulphur e l kg-ha at pre- Bowering stages); Application of of micronutric off effective filtoron 20% @ 1.0 kg-ha at pre- flowering stages); Application of of micronutric off (Boron 20% @ 1.0 kg-ha at pre- flowering stage Plant protection measures(S praying of Cartap hydrochlorio de-ef l kg-ha against Bilbart caterpillar at pod formation stage: carbendazi m+Mancoz cb e l kg-ha for Tikka discase, diamethox am 160g/ba against thrips and Trichogram ma chilonis-10					
Trichoderm a viride @ 10g/kg of sccd: Application of herbicide(S praying of Innacchapy r @ I litre ha for effective control of weed) 5. Application of Sulphur@ I kg/ha at pre- flowering stages): Application of micronutrie an(Boron 20% @ 1.0 kg/ha at pre- flowering stage Plant protection measures(S praying of Cartap hydrochlori de@ I kg/ha against filhari caterpillar at pod formation stage . carbendazi m-Mancoz eb @ I kg/ha for Trikka disease. thiamethox am 160g/ha against thirps and Trichogram ma chilonis-10					
a viride @ 10g/kg of seed: Application of herbicide(S praying of Imazethapy r @ 1 litre-ha for effective control of weed) 5. Application of Sulphur@1 kg/ha at prc- flowering stages); Application of micronutrie at(Boron 20% @ 1.0 kg/ha at prc- flowering stage Plant protection measures(S praying of Cartap hydrochlori de@1 kg/ha against Bihari caterpillar at pod formation stage , carbendazi m+Mancoz eb @ 1 kg/ha for Tikka discase, thiamethox am 16g/ha against thrips and Trichogram ma chilonis-10	agent				
© 10g/kg of seed: Application of larbicide(S praying of lamazethapy r @1 lirroha for effective control of weed) 5. Application of Sulphur@1 kg/ha at pre-flowering stages); Application of micronutrie an(Boron 20% @ 1.0 kg/ha at pre-flowering stages); Application of micronutrie an(Boron 20% @ 1.0 kg/ha at pre-flowering stage flowering stage flowerin					
seed; Application of herbicide(S) praying of herbicide(S) praying of limazethapy r @ll litre/ha for effective control of weed) 5. Application of Sulphur@l kg/ha at pre-flowering stages); Application of micronutrie nt(Boron 20% @ 1.0 kg/ha at pre-flowering stage Plant protection measures(S) praying of Cartap hydrochlori dee l kg/ha against Bihari caterpillar at pod formation stage, carbendazi m+-Maneoz eb @ 1 kg/ha for Tikka discuse, thinmethox am 100g/ha against thrips and Trichogram ma chiloms-10					
seed; Application of berbicide(S) praying of imazethapy r @ II litre/na for effective control of weed) 5. Application of Sulphur @ I kg/ha at pre- flowering stages); Application of micronutrie attBoron 20% @ 1.0 kg/ha at prc- Ilowering stage Plant protection measures(S) praying of Cartap hydrochlori de @ I kg/ha against Bihari caterpillar at pod formation stage, carbendazi m+ Mancoz eb @ I kg/ha for Tikka discuse, thiamethox am 160g/ha against thrips and Trichogram ma chiloms-10	@10g/kg of				
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chilonis-10					
Carus/IIa)	cards/ha)			<u> </u>	

C. Socio-economic impact parameters

S1.	Crop and	Total	Produce sold	Selling	Produce	Produce	Purpose	Employment
No.	variety	Produce	(Kg/household)	Rate	used for	distributed	for	Generated
	Demonstrated	Obtained		(Rs/Kg)	own	to other	which	(Mandays/house
		(kg)			sowing	farmers	income	hold)
					(Kg)	(Kg)	gained	
							was	
							utilized	
1.	Groundnut		1729.8	58.5	45	65	Domestic	74.5
	(Dharani)							
2.	Sesame		533.8	78.3	5	8.8	Domestic	
	(GT 10)							
	Blackgram	530	170	70	220	140	To meet	25
3.	(PU 31)						domestic	
	,						need	
4	Pigeonpea	1220	345	66	550	325	To meet	92
	(PRG 176)						domestic	
							need	
5	Groundnut	2080	1980	58.5	70.7	29.2	Domestic	75
	(Dharani)							

D. Oilseed Farmers' perception of the intervention demonstrated

Sl.	Technologies		Farmers' Perception parameters								
No	demonstrated	Suitabili	Likings	Affordabili	Any	Is	Suggestions, for				
	(with name)	ty to	(Preferenc	ty	negativ	Technolog	change/improvem				
		their	e)		e	у	ent, if any				
		farming			effect	acceptable					
		system				to all in the					
						group/villa					
						ge					
	Use of HYV seed:	Y	Moderate	75	N	70	Liked by farmers				
	Dharani ,Seed treatment										
	with bio-control agent										
	Trichoderma viride @ 10										
	gm/kg of seeds and seed										
	dressing with bio-										
	fertilisers like <i>Rhizobium</i> @20g/kg and PSB										
	@25g/kg ,Spraying of										
1	Imazethapyr @ 1lit /ha for										
_	weed control at 20 DAS,										
	Application of Boron										
	220% @ 1 kg/ha and										
	Sulphur @ 1 lit/ha at pre-										
	flowering stage,Spraying										
	of Carbendazim +										
	Mancozeb @ 1kg/ha										
	against Tikka disease,										
	Spraying of										

	Thiomethoxam @160 g/ha against Aphids vegetative stage, Spraying of Cartap hydrochloride@1 kg/ha against Red hairy caterpillar at pod formation stage					
2	Use of HYV seed: GT 6, Seed dressing with biofertilizers (Rhizobium @20g and PSB @ 25g/kg seed), Application of micronutrients (Boron 20.5% @1.0 kg/ha and Zinc 21 % @.2.0 kg/ha at pre-flowering stage) as foliar spray, Application of herbicide (Spraying of Imazethapyr 10% SL @1litre/ha at 20 DAS) for effective control of weed, Plant protection measures (Spraying of Thiomethoxam @160g/ha against thrips, Spraying of Cartap hydrochloride 50% SP@1kg/ha against leaf webber and capsule borer at pod formation stage	High	60	N	85	Liked by farmers
3	Use of HYV: PU 31 (Farmers' share); Seed dressing with bio-fertilizer (Rhizobium @20g and PSB @ 25g /kg seed); Application of herbicide(Spraying of Imazethapyr 10% SL @1litre/ha at 20 DAS) for effective control of weed); Application of micronutrient (Boron 20.5% @1.0 kg/ha at preflowering stages); Plant protection measures (Spraying of Thiamethoxam @160g/ha against aphids, Spraying of Cartap hydrochloride 50% SP@1kg/ha against pod borer at pod formation stage and Carbendazim 12%+Mancozeb 63% @1kg/ha	Moderate	75	N	70	Liked by farmers

	for powdery mildew)						
4	for powdery mildew) 1.Use of HYV: PRG 176; 2. Seed dressing with bio-fertilizer (Rhizobium @20g and PSB @ 25g /kg seed); 3. Application of herbicide(Spraying of Imazethapyr 10% SL @1litre/ha at 20 DAS) for effective control of weed); 4. Application of secondary & micronutrient (Sulphur 80% WDG @ 1.0kg/ha, Boron 20.5% @1.0 kg/ha and Zinc 21% @ 2.5 kg/ha at pre- flowering stages);	Y	Moderate	85	N	80	Liked by farmers
	5. Plant protection measures (Spraying of Thiamethoxam @ 160g/ha against aphids/white fly , Spraying of Cartap hydrochloride 50% SP@ 1kg/ha and Trichogramma chilonis 10 cards/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery						
5.	mildew Use of HYV seed of groundnut:Dharani(Far mers' share), Seed treatment with biocontrol agent Trichoderma viride @10g/kg of seed; Application of herbicide(Spraying of Imazethapyr @1 litre/ha for effective control of weed) 5. Application of Sulphur@1 kg/ha at preflowering stages); Application of micronutrient(Boron 20% @ 1.0 kg/ha at preflowering stage Plant	Y	Moderate	90	N	85	Liked by farmers

carbendazim+Mancozeb @1 kg/ha for Tikka disease, thiamethoxam 160g/ha against thrips and Trichogramma chilonis-10 cards/ha)

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of	Farmers Feedback
		Technology vis-a vis	
		Local Check	
Use of HYV seed:	The demonstration		Farmers were convinced
		Demonstrated technology of	
Dharani ,Seed treatment	performed well with higher	HYV, Seed dressing with	with the technology and
with bio-control agent	production and profit	bio-fertilizer; weed	decided to cultivate the
Trichoderma viride @ 10		management by herbicide;	variety (Dharani) in next
gm/kg of seeds and seed		application of micronutrient	season with same package
dressing with bio-fertilisers		and proper plant protection	of practices.
like Rhizobium @20g/kg		measures under CFLD	
and PSB @25g/kg		resulted higher grain yield	
,Spraying of Imazethapyr @		and profit as compared to	
1lit /ha for weed control at		local check.	
20 DAS, Application of			
Boron 220% @ 1 kg/ha and			
Sulphur @ 1 lit/ha at pre-			
flowering stage,Spraying of			
Carbendazim + Mancozeb			
@ 1kg/ha against Tikka			
disease, Spraying of			
Thiomethoxam @160 g/ha			
against Aphids vegetative			
stage, Spraying of Cartap			
hydrochloride@1 kg/ha			
against Red hairy caterpillar			
at pod formation stage			
Use of HYV seed: GT 6	The demonstration	Demonstrated technology of	Farmers were convinced
,Seed dressing with bio-	performed well with higher	HYV, Seed dressing with	with the technology and
fertilizers (Rhizobium @20g	production and profit	bio-fertilizer; weed	decided to cultivate the
and PSB @ 25g /kg		management by herbicide;	variety (GT 6) in next
seed),Application of		application of micronutrient	season with same package
micronutrients (Boron		and proper plant protection	of practices.
20.5% @1.0 kg/ha and Zinc		measures under CFLD	
21 % @.2.0 kg/ha at pre-		resulted higher grain yield	
flowering stage) as foliar		and profit as compared to	
spray,Application of		local check.	
herbicide (Spraying of			
Imazethapyr 10% SL			

@1litre/ha at 20 DAS) for			
effective control of			
weed,Plant protection			
measures (Spraying of			
Thiomethoxam @ 160g/ha			
against thrips, Spraying of			
Cartap hydrochloride 50%			
SP@ 1kg/ha against leaf			
webber and capsule borer			
at pod formation stage			
Use of HYV: PU 31	The demonstration	Demonstrated technology of	Farmers were convinced
(Farmers' share); Seed	performed well with higher	HYV, Seed dressing with	with the technology and
dressing with bio-fertilizer	production and profit	bio-fertilizer; weed	decided to cultivate the
(Rhizobium @20g and PSB		management by herbicide;	variety (PU 31) in next
@ 25g /kg seed);		application of micronutrient	season with same package
Application of		and proper plant protection	of practices.
herbicide(Spraying of		measures under CFLD	
Imazethapyr 10% SL		resulted higher grain yield	
@1litre/ha at 20 DAS) for		and profit as compared to	
effective control of weed);		local check.	
Application of			
micronutrient (Boron 20.5%			
@1.0 kg/ha at pre-flowering			
stages); Plant protection			
measures (Spraying of			
Thiamethoxam @ 160g/ha			
against aphids, Spraying of			
Cartap hydrochloride			
50% SP@ 1kg/ha against			
pod borer at pod formation			
stage and Carbendazim			
12%+ Mancozeb 63% @			
1kg/ha for powdery			
mildew)			
Use of HYV : PRG 176	The demonstration	Demonstrated technology of	Farmers were convinced
(ICRIDA share); Seed	performed well with higher	HYV, Seed dressing with	with the technology and
dressing with bio-fertilizer	production and profit	bio-fertilizer; weed	decided to cultivate the
(Rhizobium @20g and PSB	production and profit	management by herbicide;	variety (PRG 176) in next
@ 25g /kg seed);		application of micronutrient	season with same package
Application of		and proper plant protection	of practices.
herbicide(Spraying of		measures under CFLD	or practices.
Imazethapyr 10% SL		resulted higher grain yield	
@1litre/ha at 20 DAS) for		and profit as compared to	
effective control of weed);		local check.	
Application of secondary &		Total Chock.	
micronutrient (Sulphur 80%			
WDG @ 1.0kg/ha, Boron			
20.5% @1.0 kg/ha and			
Zinc 21% @ 2.5 kg/ha at			
pre-flowering stages); Plant			
protection measures			
(Spraying of			
Thiamethoxam @ 160g/ha			
maniculoxani @ 100g/ila			

against aphids/white fly, Spraying of Cartap hydrochloride 50%SP@ 1kg/ha and Trichogramma chilonis 10 cards/ha against pod borer at pod formation stage and Carbendazim 12%+ Mancozeb 63% @ 1kg/ha for powdery mildew Use of HYV seed of groundnut:Dharani(Farmers' share), Seed treatment with bio-control agent	The demonstration performed well with higher production and profit	Demonstrated technology of HYV, Seed dressing with bio-fertilizer; weed	Seed treatment, INM, IWM and IPDM enhanced the yield and income
with bio-control agent Trichoderma viride @10g/kg of seed; Application of herbicide(Spraying of Imazethapyr @1 litre/ha for effective control of weed) 5. Application of Sulphur@1 kg/ha at pre- flowering stages); Application of micronutrient(Boron 20% @ 1.0 kg/ha at pre- flowering stage Plant protection measures(Spraying of Cartap hydrochloride@1 kg/ha against Bihari caterpillar at pod formation stage, carbendazim+Mancozeb @1 kg/ha for Tikka disease,	production and profit	management by herbicide; application of micronutrient and proper plant protection measures under CFLD resulted higher grain yield and profit as compared to local check.	the yield and meome
thiamethoxam 160g/ha against thrips and Trichogramma chilonis-10 cards/ha)			

F. Extension activities under FLD conducted:

r. Extension acti	vittes under TLD conducted.			
Sl. No.	Extension Activities	Date and place of	Number of farmer	
	organized	activity	attended	
1	Field Day	31.10.2022,	60	
		Inkarabandha		
2	Field Day	12.09.2022,	50	
		Machhakuta		
3	Field day	16.09.2022,	50	
		Dangapal		
4	Field day	Field day 31.03.2023, Gobindpur		
5	Field day	20.03.2023,	50	
		Baramancha		

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



i. Pigeonpea (*Kharif*) at vegetative stage



ii. Pigeonpea (Kharif) at vegetative stage



iii. Blackgram(Kharif) at pod formation stage



Sesame (Kharif) at harvesting stage



Feld visit Groundnut(Kharif)



Feld visit Groundnut(Rabi)

H. Farmers' training photographs

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



i. Blackgram(Kharif) field visit



ii. Blackgram(Kharif) foliar spraying of nutrients



iii. Pigeonpea (Kharif) field visit



iv. Pigeonpea (Kharif) field visit



v. Blackgram(Kharif) foliar spraying of pesticides



 $vi.\ Field\ day\ on\ CFLD (Blackgram)\ on\ 16.09.22$



vii. Field day on CFLD (Pigeonpea)

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Groundnut	i) Critical input	2,16,000	1,55,819	60,181
(Kharif,2022)	ii) TA/DA/POL etc. for monitoring	21,000	20,642	358
	iii) Extension Activities (Field day)	3,000	3,000	0
	iv)Publication of literature	0	0	0
	Total	2,40,000	1,79,461	60,539
Sesame	i) Critical input	45,000	41,398	3,602
(Kharif,2022)	ii) TA/DA/POL etc. for monitoring	2,500	2,311	189
	iii) Extension Activities (Field day)	2,500	2,500	0
	iv)Publication of literature	0	0	0
	Total	50,000	46,209	3,791
Blackgram	i) Critical input	81,000	62,169	18,831
(Kharif,2022)	ii) TA/DA/POL etc. for monitoring	6,500	5,585	915
	iii) Extension Activities (Field day)	2,500	2,500	0
	iv)Publication of literature	0	0	0
	Total	90,000	70,254	19,746
Pigeonpea	i) Critical input	81,000	79,030	1,970
(Kharif,2022)	ii) TA/DA/POL etc. for monitoring	6,500	5,824	676
	iii) Extension Activities (Field day)	2,500	2,500	0
	iv)Publication of literature	0	0	0
	Total	90,000	87,354	2,646
Groundnut	i) Critical input	1,08,000	77,463	30,537
(Rabi,2022- 2023)	ii) TA/DA/POL etc. for monitoring	9,500	8,808	692
	iii) Extension Activities (Field day)	2,500	2,500	0
	iv)Publication of	0	0	0

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literature			
Total	1,20,000	88,771	31,229

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

A) Farmers and farm women (on campus)

Thematic Area	No. of	No. of Participants							Grand Total				
	Courses		Other			SC			ST		1		
	1	M	F	T	M	F	T	M	F	Т	M	F	T
I. Crop Production													
Weed Management													1
Resource Conservation Technologies													1
Cropping Systems	1	16	8	24	1	0	1	0	0	0	17	8	25
Crop Diversification													
Integrated Farming													1
Micro irrigation/irrigation													1
Seed production													1
Nursery management													1
Integrated Crop Management													1
Soil & water conservation													1
Integrated nutrient Management													1
Production of organic inputs	1	24	0	24	1	0	1	0	0	0	25	0	25
Others	<u> </u>							Ť	Ť	Ť		<u> </u>	1
Total	2	40	8	48	2	0	2	0	0	0	42	8	50
II. Horticulture				1.0		·		Ť	Ť	Ť		1	1
a) Vegetable Crops												+	1
Production of low volume and high												+	1
value crops													
Off0season vegetables												+	1
Nursery raising													1
Exotic vegetables													1
Export potential vegetables													1
Grading and standardization													1
Protective cultivation													1
Others													1
Total (a)													1
b) Fruits													1
Training and Pruning													1
Layout and Management of Orchards													1
Cultivation of Fruit													1
Management of young plants/orchards													1
Rejuvenation of old orchards													1
Export potential fruits							İ	İ	İ	İ	İ		
Micro irrigation systems of orchards							İ	İ	İ	İ	İ		
Plant propagation techniques							İ	İ	İ	İ	İ		
Others							İ	İ	İ	İ	İ		
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants							İ	İ	İ	İ	İ		
Export potential of ornamental plants							İ	İ	İ	İ	İ		
Propagation techniques of Ornamental							İ	İ	İ	İ	İ		
Plants													
Others							İ	İ	İ	İ	İ		

Total (c) d) Plantation crops Production and Management technology	Courses	M	Other			\mathbf{SC}			\mathbf{ST}				
d) Plantation crops Production and Management		M			 					1			
d) Plantation crops Production and Management			F	T	M	F	T	M	F	T	M	F	T
Production and Management													
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													<u> </u>
Total (f)													<u> </u>
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management													
technology													
Post harvest technology and value addition													
Others (Income generation)													
Total (g)													
Total (g)													
III. Soil Health and Fertility													
Management Tertific													
Soil fertility management													
Integrated water management													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
others													
Total													
IV. Livestock Production and													
Management													
Dairy Management	1	11	25	36	2	2	4	0	0	0	13	27	40
Poultry Management	2	20	6	26	25	14	39	0	0	0	45	20	65
Piggery Management													
Rabbit Management													
Animal Nutrition Management													
Disease Management	2	32	27	59	3	3	6	0	0	0	35	30	65
Feed & fodder technologies	2	28	27	55	2	8	10	0	0	0	30	35	65
Production of quality animal products													<u></u>
Others	1	12	14	26	4	10	14	0	0	0	16	24	40
Total	8	103	99	202	36	37	73	0	0	0	139	136	275
V. Home Science/Women													
empowerment													
Household food security by kitchen													

Thematic Area	No. of	No. of Participants								Grand Total			
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
gardening and nutrition gardening													
Design and development of													
low/minimum cost diet												<u> </u>	
Designing and development for high													
nutrient efficiency diet Minimization of nutrient loss in												 	
processing													
Processing & cooking												 	1
Gender mainstreaming through SHGs												 	1
Storage loss minimization techniques												1	1
Value addition													
Women empowerment													
Location specific drudgery reduction													
technologies													
Rural Crafts													
Women and child care									 	\vdash	 	 	1
Others										\vdash			
Total													1
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									<u> </u>			<u> </u>	<u> </u>
Total												<u> </u>	
VII. Plant Protection												<u> </u>	
Integrated Pest Management									<u> </u>			<u> </u>	<u> </u>
Integrated Disease Management												<u> </u>	<u> </u>
BioOcontrol of pests and diseases												<u> </u>	<u> </u>
Production of bio control agents and													
bio pesticides												<u> </u>	
Others												<u> </u>	1
VIII. Fisheries										 	 	 	1
												 	
Integrated fish farming Carp breeding and hatchery												 	
management													
Carp fry and fingerling rearing										-	 	 	1
Composite fish culture													
Hatchery management and culture of												-	1
freshwater prawn													
Breeding and culture of ornamental													
fishes													
Portable plastic carp hatchery													†
Pen culture of fish and prawn									<u> </u>		 	1	<u> </u>
Shrimp farming													
Edible oyster farming													†
Pearl culture													†
										 	 	 	1
Fish processing and value addition			<u> </u>				<u> </u>		<u> </u>	<u> </u>	<u> </u>	Ь	<u> </u>

Thematic Area	No. of	No. of Participants							Grand Total				
	Courses		Other			SC			ST				
		M	F	Т	M	F	T	M	F	T	M	F	T
Others													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
BioOagents production													
BioOpesticides 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													<u> </u>
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	10	143	107	250	38	37	75	0	0	0	181	144	325

B) Rural Youth (on campus)

Thematic Area	No. of	No. of Participants										Grand Total				
	Courses	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	1	0	0	0	4	11	0	0	0	0	4	11	15			

Thematic Area	No. of											Grand Total				
	Courses		Other			SC			ST	ı						
District the distr		M	F	T	M	F	T	M	F	T	M	F	Т			
Planting material production																
Vermiculture Mushroom Production																
Beekeeping Beekeeping																
Sericulture																
Serieulture												<u> </u>				
Repair and maintenance of farm																
machinery and implements																
Value addition												<u> </u>				
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																
													<u> </u>			
Use of different probiotics for augmentation of fish yield.	01	05	10	15							05	10	15			
Role of Minor carp Species for yield enhancement	01	07	08	15	0	9	9	2	0	2	09	17	26			
Total	3	12	18	30	4	20	9	2	0	2	18	38	56			

C) Extension Personnel (on campus)

Thematic Area	No. of	Other SC ST						Gran	d Total				
	Courses	Other											
		M	F	Т	M	F	Т	M	F	Т	M	F	Т

Thematic Area	No. of			Grand Total									
	Courses		Other			Particip SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field													
crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm													
machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet													
designing													
Group Dynamics and farmers													
organization													
Information networking among													
farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other (Disease diagnosis)	1	11	2	13	1	1	2	0	0	0	12	3	15
Recent advances in Aquaculture													
Technologies	01	0	15	15	0	0	0	0	0	0	0	15	15
Low cost fish feed preparation	0.1												
methods and its use	01	0	15	15	0	0	0	0	0	0	0	15	15
Total	3	11	32	43	1	1	2	0	0	0	12	33	45

D) Farmers and farm women (off campus)

Thematic Area	No. of				Grand Total								
	Courses		Other			SC			ST				
		M	F	Т	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	3	39	36	75	0	0	0	0	0	0	39	36	75
Resource Conservation Technologies													
Cropping Systems	1	16	8	24	1	0	1	0	0	0	17	8	25
Crop Diversification	1	10	0	24	1	U	1	U	U	0	1 /	8	23
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management	3	54	21	75	0	0	0	0	0	0	54	21	75
Soil & water conservation													
Integrated nutrient Management	3	58	16	74	1	0	1	0	0	0	59	16	75
Production of organic inputs	1	24	0	24	1	0	1		0	0	0	25	0
Others													
Total	11	191	81	272	3	0	3	0	0	0	194	81	275
II. Horticulture													

Thematic Area	No. of	No. of Participants									Grand Total				
	Courses		Other			SC			ST]				
		M	F	T	M	F	T	M	F	T	M	F	T		
a) Vegetable Crops															
Production of low volume and high															
value crops															
Off0season vegetables															
Nursery raising															
Exotic vegetables															
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															
Plant propagation techniques															
Others															
Total (b)															
c) Ornamental Plants															
Nursery Management															
Management of potted plants															
Export potential of ornamental plants															
Propagation techniques of Ornamental															
Plants															
Others															
Total (c)															
d) Plantation crops															
Production and Management															
technology															
Processing and value addition															
Others															
Total (d)															
e) Tuber crops															
Production and Management															
technology															
Processing and value addition															
Others															
Total (e)															
f) Spices															
Production and Management															
technology															
Processing and value addition															
Others															
Total (f)															
g) Medicinal and Aromatic Plants															
Nursery management															
Production and management															
technology															
Post harvest technology and value															
addition			<u> </u>									L			
Others (Income generation)	1	-	25	25	-	-	-	-	-	-	-	25	25		
Total (g)															

Thematic Area	No. of	<u>.</u>									Grand Total					
	Courses		Other			SC			ST							
		M	F	T	M	F	T	M	F	T	M	F	T			
Total(a-g)																
III. Soil Health and Fertility																
Management																
Soil fertility management																
Integrated water management																
Integrated Nutrient Management																
Production and use of organic inputs Management of Problematic soils																
Micro nutrient deficiency in crops																
Nutrient Use Efficiency																
Balance Use of fertilizer																
Soil & water testing																
others																
Total																
IV. Livestock Production and																
Management																
Dairy Management	4	64	27	91	6	3	9	0	0	0	70	30	100			
Poultry Management	2	14	27	41	0	1	1	0	8	8	14	36	50			
-		14	21	41	U	1	1	U	8	8	14	36	50			
Piggery Management Rabbit Management																
Animal Nutrition Management																
Disease Management																
Feed & fodder technologies	4	2	4.5	4.0	_			_			_	22	25			
_	1	3	15	18	0	7	7	0	0	0	3	22	25			
Production of quality animal products	1	13	12	25	0	0	0	0	0	0	13	12	25			
Others	2	35	10	45	2	3	5	0	0	0	37	13	50			
Total	10	129	91	220	8	14	22	0	8	8	137	113	250			
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																
Minimization of nutrient loss in																
processing																
Processing & cooking																
Gender mainstreaming through SHGs Storage loss minimization techniques																
Value addition																
Women empowerment																
Location specific drudgery reduction																
technologies																
Rural Crafts																
Women and child care																
Others																
Total																
VI. Agril. Engineering																
Farm machinery & its maintenance																
Installation and maintenance of micro																
irrigation systems																
Use of Plastics in farming practices																
Production of small tools and																
implements																
Repair and maintenance of farm																
machinery and implements																
	•															

Thematic Area	No. of			N	o. of I	Partic	ipants				Gran	nd Tota	ıl
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Small scale processing and value													
addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection		20	1.0		2	1	2	0		1.7	40	2.5	7.5
Integrated Pest Management	3	39	16	55	2	1	3	8	9	17	49	26	75
Integrated Disease Management	2	22	9	31	11	1	12	1	6	7	34	16	50
Integrated pest and disease	3	61	5	66	8	0	8	1	0	1	70	5	75
management													-
Bio control of pests and diseases													
Production of bio control agents and													
bio pesticides Need based safe use of pesticides	2	1.4	9	23	2	4	6	13	8	21	29	21	50
L	2	14	9	23	2	4	6	13	0	21	29	21	30
Others					-			-					
VIII. Fisheries					-			-					
Integrated fish farming					-			-					
Carp breeding and hatchery													
management													
Carp fry and fingerling rearing	01	8	12	20	1	3	4	0	1	1	9	16	25
Composite fish culture	01	0	12	20	1	5	-	0	1	1	2	10	23
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													25
Others (Scientific culture technique	01	7	15	22	0	0	0	1	2	3	8	17	25
for Jayanti rohu fish farming)													25
Stunted yearling production technique	01	8	17	25	0	0	0	0	0	0	8	17	23
Culture of Monosex Nile Tilapia & its													25
scientific management	01	9	15	24	0	0	0	1	0	1	10	15	25
serentine management								_					
Biology & culture method of Singhi													25
fish	01	8	17	25	0	0	0	0	0	0	8	17	
Fish Disease diagnosis and their					_	_	_	_	_	_			25
control	01	4	21	25	0	0	0	0	0	0	4	21	
													2.5
Amur Carp culture technology	01	9	13	22	0	2	2	0	1	1	9	16	25
Preparation of battered and breaded													25
fish products	01	4	21	25	0	0	0	0	0	0	4	21	23
fish products	01	_	21	23			0	0		0	_	21	
Stunted yearling production technique	0.4				_		_	_					25
production technique	01	8	17	25	0	0	0	0	0	0	8	17	
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio-agents production													

Thematic Area	No. of			N	o. of I	Partici	ipants				Gran	d Tota	ıl
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	Т	M	F	T
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and													
fodder													•
Production of Fish feed													
Mushroom production													
Apiculture													
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	1	2	-	2	1	1	2	7	14	21	10	15	25
Nursery management													
Integrated Farming Systems	1	23	-	23	1	-	1	1	-	1	25	-	25
Others (Agroforestry management)	3	43	11	54	1	-	1	12	8	20	56	19	75
Total	5	68	11	79	3	1	4	20	22	42	91	34	125
XII. Others (Pl. Specify)													
GRAND TOTAL	46	589	395	984	38	26	64	45	57	102	672	478	1150

E) RURAL YOUTH (Off Campus)

Thematic Area	No. of			N	o. of F	Particij	pants				Gran	d Tota	ıl
	Courses		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													

Thematic Area	No. of			N	o. of P	articij	pants				Gran	d Tota	ıl
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													
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			N	o. of F	Particij	oants				Gran	d Tota	ıl
	Courses		Other			SC			ST				
]	M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	10	5	15	0	0	0	0	0	0	10	5	15
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm													

Thematic Area	No. of			No	o. of F	Partici	pants				Gran	d Tota	ıl
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other													
Total	1	10	5	15	0	0	0	0	0	0	10	5	15

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

Thematic Area	No. of			No	o. of P	artici	pants				Grar	nd Tot	al
	Courses		Other	r		SC			ST		1		
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	3	39	36	75	0	0	0	0	0	0	39	36	75
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management	3	54	21	75	0	0	0	0	0	0	54	21	75
Soil & water conservation													
Integrated nutrient Management	3	58	16	74	1	0	1	0	0	0	59	16	75
Production of organic inputs													
Others													
Total	9	151	73	224	1	0	1	0	0	0	152	73	225
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high													
value crops													
Off-season vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
b) Fruits													
Training and Pruning													

Thematic Area	No. of			No	o of P	artici	pants				Gran	nd Tota	al
	Courses		Other	•		SC	_		ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Layout and Management of Orchards													<u> </u>
Cultivation of Fruit													
Management of young													
plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of													<u> </u>
Ornamental Plants													
Others													
Total (c)											 		\vdash
													\vdash
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													
	1	0	25	25								25	25
Others (Income generation)	1	0	25	25	-	-	-	-	-	-	-	25	25
Total (g)	1	0	25	25	-	-	-	-	-	-	-	25	25
Total(a-g)	1	0	25	25	-	-	-	-	-	-	-	25	25
III. Soil Health and Fertility													
Management													
Soil fertility management													
Integrated water management	ļ				<u> </u>								<u> </u>
Integrated Nutrient Management													<u> </u>
Production and use of organic inputs													<u> </u>
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing						1							<u> </u>
2011 of franci conting	I	<u> </u>	1		<u> </u>	ı	l	1	l	i	I	<u> </u>	1

Others	Thematic Area	No. of			No	of P	artici	ipants				Gran	nd Tota	
Total				Other				•		ST				
Total			M	F	T	M	F	T	M	F	T	M	F	T
Note Interested Production and Management														
Management														
Dairy Management														
Production of quality animal products					 		ـــِــا	10						1.10
Piggery Management Rabbit Management Rabbit Management Rabbit Management Rabbit Management Disease Man									1					140
Rabbit Management		4	34	33	67	25	15	40	0	8	8	59	56	115
Animal Nutrition Management 2 32 5 5 5 3 3 6 0 0 0 35 30 6 6 6 0 0 0 35 30 6 6 6 6 0 0 0 35 30 6 6 6 6 0 0 0 35 30 6 6 6 6 6 6 6 6 6					 									
Disease Management	Č				 									
Feed & fodder technologies 3 31 42 73 2 15 17 0 0 0 33 57 59					 									
Production of quality animal products									1					65
Droducts		3	31	42	73	2	15	17	0	0	0	33	57	90
Others					l			_		_				
Total 18 232 190 422 44 51 95 0 8 8 276 249 5	1													25 90
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 Minimization of nutrient loss in processing & cooking Gender mainstreaming through SHGs Storage loss minimization techniques Value addition Women empowerment Location specific dudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its 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 Repair and maintenance of farm machinery and implements Royal Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 9 17 49 26 75												 		
Image: Production of the content o		18	232	190	422	44	51	95	0	8	8	276	249	525
Household food security by kitchen gardening and development of low/minimum cost diet Designing and development for high nutrient efficiency diet Minimization of nutrient loss in processing & cooking Gender mainstreaming through SHGs Storage loss minimization techniques Value addition Women empowerment Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Small scale processing and value addition Total VI. Plant Protection Losation specific drum management 3 39 16 55 2 1 3 8 9 17 49 26 75														
gardening and nutrition gardening Design and development of low/minimum cost diet Designing and development for high nutrient efficiency diet Minimization of nutrient loss in processing Processing & cooking Gender mainstreaming through SHGs Storage loss minimization techniques Value addition Women empowerment Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance 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 Figure 1					 									
Design and development of low/minimum cost diet Designing and development for high nutrient efficiency diet Minimization of nutrient loss in processing Processing & cooking Gender mainstreaming through SHGs Storage loss minimization techniques Value addition Women empowerment Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance of micro irrigation systems Los of Plastics in farming practices Production of small tools and implements Small scale processing and value addition Total VI. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75 Integrated Pest Management Inte														
low/minimum cost diet Designing and development for high nutrient efficiency diet Minimization of nutrient loss in processing Processing & cooking Gender mainstreaming through SHGs Storage loss minimization techniques Value addition Value additi		ļ				 			-			<u> </u>	 	
Designing and development for high nutrient efficiency diet Minimization of nutrient loss in processing Processing & cooking Gender mainstreaming through SHGs Storage loss minimization techniques Value addition Women empowerment Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Small scale processing and value addition Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														İ
nutrient efficiency diet Minimization of nutrient loss in processing Processing & cooking Gender mainstreaming through SHGs Storage loss minimization techniques Value addition Women empowerment Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Small scale processing and value addition Post Harvest Technology Others Total														
Minimization of nutrient loss in processing Processing & cooking Gender mainstreaming through SHGs Storage loss minimization techniques Value addition Women empowerment Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Small scale processing and value addition Post Harvest Technology Others Total VI. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
processing & cooking Processing & cooking Gender mainstreaming through SHOs Storage loss minimization techniques Value addition Women empowerment Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Small scale processing and value addition Post Harvest Technology Others Total VI. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
Processing & cooking Gender mainstreaming through SHGs Storage loss minimization techniques Value addition Women empowerment Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance of micro irrigation and maintenance of micro irrigation of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
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SHGs Storage loss minimization techniques Value addition Women empowerment Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
Storage loss minimization techniques Value addition Women empowerment Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
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Women empowerment Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
Location specific drudgery reduction technologies Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
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Rural Crafts Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														İ
Women and child care Others Total VI. Agril. Engineering Farm machinery & its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75	•													
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VI. Agril. Engineering Farm machinery & its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
Farm machinery & its maintenance Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
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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 A Substitute of Plastics in farming practices Management A Substitute of Plastics in farming practices														
Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
implements														
Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology Others Total VII. Plant Protection Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75					l									
machinery and implements														
Small scale processing and value addition					l									
Addition														
Others Image: Control of the control of t					l									
Others Total Image: Control of the cont														
VII. Plant Protection 3 39 16 55 2 1 3 8 9 17 49 26 75														
VII. Plant Protection 3 39 16 55 2 1 3 8 9 17 49 26 75	Total													
Integrated Pest Management 3 39 16 55 2 1 3 8 9 17 49 26 75														
<u> </u>		3	39	16	55	2	1	3	8	9	17	49	26	75
Integrated Disease Management 2 22 9 31 11 1 1 12 1 6 7 34 16 50	Integrated Disease Management	2	22	9	31	_	1	12	1	6	7	34	16	50
Integrated past and disease									1					75
management 3 61 5 66 8 0 8 1 0 1 70 3 73		5	61)	66	8	U	8	1	U	1			
Bio control of pests and diseases	·													

Thematic Area	No. of			No	. of P	artici	pants				Gran	d Tota	ıl
	Courses		Other	•		SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Production of bio control agents and bio pesticides													
Need based safe use of pesticides	2	14	9	23	2	4	6	13	8	21	29	21	50
Others													
Total	10	136	39	175	23	6	29	23	23	46	182	68	250
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery													
management													
Carp fry and fingerling rearing	01	8	12	20	1	3	4	0	1	1	9	16	25
Composite fish culture													
Hatchery management and culture of													
freshwater prawn													
Breeding and culture of ornamental													
fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming Pearl culture													
Fish processing and value addition													
Scientific culture technique for													25
Jayanti rohu fish farming	01	7	15	22	0	0	0	1	2	3	8	17	
Stunted yearling production technique	01	8	17	25	0	0	0	0	0	0	8	17	25
Culture of Monosex Nile Tilapia & its scientific management	01	9	15	24	0	0	0	1	0	1	10	15	25
Biology & culture method of Singhi fish	01	8	17	25	0	0	0	0	0	0	8	17	25
Fish Disease diagnosis and their													25
control	01	4	21	25	0	0	0	0	0	0	4	21	23
Amur Carp culture technology	01	9	13	22	0	2	2	0	1	1	9	16	25
Preparation of battered and breaded fish products	01	4	21	25	0	0	0	0	0	0	4	21	25
Total	08	57	131	188	1	5	6	2	4	6	60	140	200
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax													
sheets													
Small tools and implements													
Production of livestock feed and													
fodder Production of Fish feed													
rioduction of FISH feed		<u> </u>			<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u> </u>	

Thematic Area	No. of			No	. of P	artic	ipants				Gran	nd Tota	ıl
	Courses		Other	r		SC			ST				
	1	M	F	T	M	F	T	M	F	T	M	F	T
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	1	2	-	2	1	1	2	7	14	21	10	15	25
Nursery management													
Integrated Farming Systems	1	23	-	23	1	-	1	1	-	1	25	0	25
Others	3	43	11	54	1	0	1	12	8	20	56	19	75
Total	5	68	11	79	3	1	4	20	22	42	91	34	125
XII. Others (Pl. Specify)													
GRAND TOTAL	51	644	469	1113	72	63	135	45	57	102	761	589	1350

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of			N	o. of I	Particij	pants				Gran	d Tota	al
	Courses		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	1	0	0	0	4	11	0	0	0	0	4	11	15
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													

Thematic Area	No. of			No	o. of P	articij	oants				Gran	d Tota	ıl
	Courses		Other			SC	•		ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others													
Use of different probiotics for augmentation of fish yield.	01	05	10	15							05	10	15
Role of Minor carp Species for yield enhancement	01	07	08	15	0	9	9	2	0	2	09	17	26
Total	3	12	18	30	4	20	9	2	0	2	18	38	56

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of			N	o. of F	Particij	pants				Gran	d Tota	ıl
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field	1	10	5	15	0	0	0	0	0	0	10	5	15
crops	1	10	3	13	U	U	0	U	U	U	10)	
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm													
machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													

Thematic Area	No. of			No	o. of P	articip	oants				Gran	d Tota	l
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
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 (Disease diagnosis)	1	11	2	13	1	1	2	0	0	0	12	3	15
Recent advances in Aquaculture Technologies	01	0	15	15							0	15	15
Low cost fish feed preparation methods and its use	01	0	15	15							0	15	15
Total	4	21	37	58	1	1	2	0	0	0	22	38	60

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

Discipline	Clientele	Title of the	Duration	Venue		Number o		Numb	er of SC/S	ST
		training	in days	(Off /		participant			I	ı
		programme		On	Male	Female	Total	Male	Female	Total
				Campus)						
Agronomy	F/FW	Post-harvest	1	Off	24	1	25	0	0	0
		technique in		campus						
		medium land rice								
Agronomy	F/FW	Integrated	1	Off	24	0	24	1	0	1
		nutrient		campus						
		management in								
		groundnut								
Agronomy	F/FW	Integrated weed	1	Off	21	4	25	0	0	0
		management in		campus						
	T- (T-1)	mustard		0.00	10		20		4	_
Agronomy	F/FW	Water	1	Off	18	2	20	4	1	5
		management in		campus						
A	E (EXX	major oilseeds	4	0.55	1.5	-	22		1	2
Agronomy	F/FW	Nutrient	1	Off	15	7	22	2	1	3
		management based on Soil		campus						
		Health card								
A caron omer:	F/FW		1	Off	25	0	25	0	0	0
Agronomy	F/F W	Integrated weed	1		23	U	23	U	U	U
		management maize		campus						
Agronomy	F/FW	Post-harvest	2	Off	9	14	23	2	0	2
Agronomy	1/1 **	technique in	2	campus		17	23	2	o o	2
		medium land rice		Campus						
Agronomy	F/FW	Contingent crop	1	On	16	8	24	1	0	1
1.5101101119		planning for	•	campus			~ .	•		_
		different types of		Campus						
		drought situation								
Agronomy	F/FW	Vermi	1	On	24	0	24	1	0	1

				•			•			
		composting and its use in Agriculture		campus						
Agronomy	F/FW	Management of micronutrients in pulses	1	Off campus	24	0	24	1	0	1
Agronomy	F/FW	Integrated nutrient management in blackgram	1	Off campus	9	16	25	0	0	0
Agronomy	IS	Agro-adaptations to climate change for enhancing productivity in rice based cropping system	1	Off campus	10	5	15	0	0	0
Plant Protection	F/FW	Need basesed safe use of pesticides	1	Off campus	17	8	25	8	0	8
Plant Protection	F/FW	Insect pests of cashew and their management	1	Off campus	25	0	25	2	0	2
Plant Protection	F/FW	Management of major diseases in greengram	1	Off campus	24	1	25	11	1	12
Plant Protection	F/FW	Management practices for major insect pests in maize	1	Off campus	13	12	25	1	1	2
Plant Protection	F/FW	Management of different pest and diseases in solanaceous vegetables	2	Off campus	23	2	25	4	0	4
Plant Protection	F/FW	Integrated pest and disease management practices in nurseries during kharif	1	Off campus	25	0	25	2	0	2
Plant Protection	F/FW	IPM practices for kharif paddy	1	Off campus	11	14	25	7	9	16
Plant Protection	F/FW	Need basesed safe use of pesticides	1	Off campus	12	13	25	2	4	6
Plant Protection	F/FW	Integrated disease management in chilli	1	Off campus	10	15	25	1	6	7
Plant Protection	F/FW	Pest and disease management strategies in organic vegetable production system	1	Off campus	22	3	25	3	0	3
Plant	RY	Preparation	2	On	4	11	15	4	11	15

Protection		procedures of		campus						
		different								
	E O EXX	biopesticides	1	0.00	1.4	1.1	25	1	-	-
Forestry	F&FW	Cultivation of	1	Off	14	11	25	1	0	1
Sc.		spices in tree		campus						
T	E O EXX	plantation	1	OCC	25		25	12		
Forestry	F&FW	Propagation	1	Off	25	0	25	2	0	2
		techniques of		campus						
		important forest								
		trees		0.00	1=			10		20
Forestry	F&FW	Importance of	1	Off	17	8	25	12	8	20
		cash crops in		campus						
		agroforestry		0.00	2.7					-
Forestry	F&FW	Preparation and	1	Off	25	0	25	0	0	0
		management of		campus						
		horti-silvi								
		agroforestry								
		model		0.00		2.7				-
Forestry	F&FW	Commercial	1	Off	0	25	25	0	0	0
		medicinal plants		campus						
		for income								
		generation		0.00		2.7				
Forestry	F&FW	Silvicultural	1	Off	0	25	25	25	0	25
		operations in		campus						
		fruit-based								
		agroforestry								
	TO (FOXX)	model	0 1	0.00		22	2.5		 	
Animal	F/FW	New trends of	One day	Off	3	22	25	0	7	7
Science		feeding for		Campus						
		improving								
		livestock								
Animal	E/EXX	productivity	0 1	OCC	22	2	25	-	1	
	F/FW	Care and	One day	Off	23	2	25	5	1	6
Science		management of		Campus						
Animal	F/FW	heifers	One day	Off	13	12	25	1	2	3
	F/FW	Care and	One day		13	12	25	1	2	3
Science		management of heifers		Campus						
Animal	F/FW		One day	Off	13	12	25	2	2	4
Science	Γ/Γ W	Feeding and health	One day		13	12	23	2	2	4
Science		management in		Campus						
		goats								
Animal	F/FW	Feeding and	One day	Off	24	1	25	0	1	1
Science	Γ/Γ W	health	One day		24	1	23	0	1	1
Science				Campus						
		management in								
Animal	F/FW	goats Management of	One day	Off	4	21	25	0	1	1
Science	Γ/Γ W	heat and cold	One day		4	21	23	0	1	1
Science				Campus						
Animal	F/FW	stress in poultry Clean milk	One day	Off	13	12	25	0	0	0
	F/F W		One day		13	12	23	0	١٠	U
Science Animal	F/FW	production Care and	One day	Campus Off	10	15	25	0	0	0
Science	17F VV		One day		10	13	23		0	U
Science		management of		Campus						
		Mastitis in dairy animals								
	1	aiiiiiais			1					

										05
Animal Science	F/FW	Feeding of processed crop residues for better utilization by dairy animal	One day	On Campus	22	3	25	1	2	3
Animal Science	F/FW	Complete documentation and record keeping in poultry farming	One day	Off Campus	10	15	25	0	8	8
Animal Science	F/FW	Important diseases in livestock and their management	One day	On Campus	24	1	25	0	0	0
Animal Science	F/FW	Repeat breeding and anestrous management in dairy animals	One day	Off Campus	24	1	25	0	0	0
Animal Science	F/FW	Improved management practices in backyard poultry (SCSP)	Two days	On Campus	22	3	25	22	3	25
Animal Science	F/FW	Improved dairy farming with entrepreneurship skills	Three days	Off Campus	13	27	40	2	2	4
Animal Science	F/FW	Fodder production for livestock feed management	Three days	Off Campus	8	32	40	1	6	7
Animal Science	F/FW	Important diseases in livestock and their management	Three days	Off Campus	11	29	40	3	3	6
Animal Science	F/FW	Improving livelihood through goat farming with scientific management practices	Three days	Off Campus	16	24	40	4	10	14
Animal Science	F/FW	Small scale layer poultry farming for higher income per unit area	Three days	Off Campus	23	17	40	3	11	14
Animal Science	IS	Collection, preservation and dispatch of clinical samples for laboratory analysis	One day	On campus	12	3	15	1	1	2
Fishery	F/FW	Pre-stocking	1	Off	8	12	20	1	4	5

		Management Practices for fry & fingerling production		campus						
Fishery	F/FW	Scientific culture technique for Jayanti rohu fish farming	1	Off campus	9	13	22	0	3	3
Fishery	F/FW	Stunted yearling production technique	1	Off campus	7	15	22	1	2	3
Fishery	F/FW	Culture of Monosex Nile Tilapia & its scientific management	1	Off campus	8	17	25	0	0	0
Fishery	F/FW	Biology & culture method of Singhi fish	1	Off campus	9	15	24	1	0	1
Fishery	F/FW	Fish Disease diagnosis and their control	1	Off campus	4	21	25	0	0	0
Fishery	F/FW	Amur Carp culture technology	1	Off campus	7	15	22	1	2	3
Fishery	F/FW	Preparation of battered and breaded fish products	1	Off campus	8	17	25	0	0	0
Fishery	RY	Use of different probiotics for augmentation of fish yield.	2	On campus	5	10	15	0	0	0
Fishery	RY	Role of Minor carp Species for yield enhancement	2	On campus	7	8	15	2	9	11
Fishery	IS	Recent advances in Aquaculture Technologies	1	On campus	0	15	15	0	15	15
Fishery	IS	Low cost fish feed preparation methods and its use	1	On campus	0	15	15	0	15	15

H) Vocational training programmes for Rural Youth

a) Details of training programmes for Rural Youth

Crop / Enterpri	Identifie d Thrust	Training	Duratio	No. o	of Partici	pants	Self emplo	oyed after	r training	Numbe r of persons employ ed else where
se	Area	title*	n (days)	Mal e	Fema le	Tot al	Type of units	Numb er of units	Numbe r of persons employ ed	
Honey bee	Bee keeping	Rearing of honey bee	4 (14.11.2 2- 17.11.2 2)	0	15	15			10	
Honey bee	Bee keeping	Rearing of honey bee	4 (2.3.22- 5.3.22)	11	1	12			6	
Poultry	Income generati on	Layer poultry farming	Five days	5	5	10	Backyard poultry unit (20 birds)	10	10	-
Fish	Income generati on	Ornamenta 1 fish production & Aquarium Preparation techniques for women empowerm ent	05	0	10	10	Ornamen tal fish unit	02	3	

^{*}training title should specify the major technology /skill transferred

b) Details of participation

Thematic Area	No. of				No. of	Partic	cipants				Grand	Total	
	Courses		Other	r		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 management	
Commercial fruit production Commercial vegetable production Integrated crop	
production	
production	
Commercial vegetable production Integrated crop	
Integrated crop	
Integrated crop	
Organic farming	
27	
Honey bee rearing 2 9 1 10 0 15 15 1 1 2 10 17 27	
Other	
Total 2 9 1 10 0 15 15 1 1 2 10 17 27	
Post harvest	
technology and	
value addition	
Y 1 112	
Value addition	
Other	
Total	
Livestock and	
fisheries	
Institutes	
Dairy farming	
Composite fish	
culture	
Sheep and goat	
rearing	
Tourng	
Piggery	
Poultry farming 1 00 00 00 05 05 10 00 00 00 05 05	10
	10
fish production &	10
Aquarium Preparation	
techniques for	
women	
empowerment)	
	20
Income generation	
activities	
Vermicomposting	
Production of	
bioagents,	
biopesticides,	
biofertilizers etc.	
biofertilizers etc. Repair and	İ
biofertilizers etc. Repair and maintenance of farm	
biofertilizers etc. Repair and maintenance of farm machinery &	
biofertilizers etc. Repair and maintenance of farm machinery & imlements	
biofertilizers etc. Repair and	
biofertilizers etc. Repair and maintenance of farm machinery & imlements Rural Crafts Seed production	
biofertilizers etc. Repair and maintenance of farm machinery & imlements Rural Crafts	
biofertilizers etc. Repair and maintenance of farm machinery & imlements Rural Crafts Seed production	
biofertilizers etc. Repair and maintenance of farm machinery & imlements Rural Crafts Seed production Sericulture	

													09
Tailoring, stitching,													
embroidery, dying													
etc.													
Agril. Para-workers,													
para-vet training													
Other													
Total													
Agricultural													
Extension													
Capacity building and													
group dynamics													
Other													
Total													
Grand Total	4	9	11	20	5	20	25	1	1	2	15	32	47

I) Sponsored Training Programmes

a) Details of Sponsored Training Programme

Sl.	Title	Thematic	Month	Duration (days)	Client	No. of courses	No. of participants	Sponsoring Agency
No	11010	area			PF/RY/EF			
1	Improved dairy farming with entrepreneurship skills	Livestock production and management	March	3 days	PF	01	40	ICAR
2	Fodder production for livestock feed management	Animal Nutrition Management	March	3 days	PF	01	40	ICAR
3	Important diseases in livestock and their management	Animal Disease Management	March	3 days	PF	01	40	ICAR
4	Improving livelihood through goat farming with scientific management practices	Livestock production and management	March	3 days	PF	01	40	ICAR
5	Small scale layer poultry farming for higher income per unit area	Livestock production and management	March	3 days	PF	01	40	ICAR

b) Details of participation

Thematic Area	No. of				No. of	Partic	ipants				Grand	Total	
	Courses		Othe			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													
Culci													
Total													
Post harvest													
technology and													
value addition													
Processing and value													
addition													
Other													
Other													
Total													
Farm machinery													
rarm machinery													
Farm machinery,													
tools and implements													
Other													
Total													
Livestock and													
fisheries													
Livestock production	3	43	45	88	9	23	32	0	0	0	52	68	120
and management													
Animal Nutrition	1	7	26	33	1	6	7	0	0	0	8	32	40
Management													
Animal Disease	1	8	26	34	3	3	6	0	0	0	11	29	40
Management		1											
Fisheries Nutrition													
Fisheries													
Management													
Other													
Total	5	58	97	155	13	32	45	0	0	0	71	129	20
Home Science	t	1	1	1	1	i —		i				i — —	

													7 -
Household nutritional security													
Economic													
empowerment of													
women													
Drudgery reduction of													
women													
Other													
Total													
Agricultural													
Extension													
Capacity Building													
and Group Dynamics													
Other													
Total													
Grant Total	5	58	97	155	13	32	45	0	0	0	71	129	200

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

Nature of Extension	No. of		F	armers		Ext	ension Offic	cials		Total	
Activity	activit ies	M	F	Т	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
				4.50	11.07				100	2.1	4.4
Field Day	03	127	33	160	11.25	3	1	4	130	34	164
Kisan Mela	03	432	562	994	6.33	5	8	13	437	570	1007
Kisan Ghosthi	0	0	0	0	0	0	0	0	0	0	0
Exhibition	03	345	511	856	3.27	5	5	10	350	516	866
Film Show	10	123	127	250	22.8	2	3	5	126	132	258
Method Demonstrations	22	107	63	170	47	3	3	6	110	69	179
Farmers Seminar	4	110	90	200	28	5	3	8	113	93	206
Workshop	01	56	44	100	100	4	4	8	60	48	108
Group meetings	12	267	33	300	5	3	4	7	270	37	307
Lectures delivered as	18	205	245	450	5.3	3	3	6	208	248	456
resource persons											
Advisory Services	897	853	44	897	6.4	3	3	6	856	47	903
Scientific visit to farmers	219	443	302	745	10.6	3	3	6	446	305	751
field											
Farmers visit to KVK	1	1008	1083	2091	10.4	10	8	18	1018	1091	2109
Diagnostic visits	16	62	6	68	66.17	2	3	5	65	11	76
Exposure visits	2	87	13	100	15	3	3	6	90	16	106
Ex-trainees Sammelan	0	0	0	0	0.0	0	0	0	0	0	0
Soil health Camp	0	0	0	0	0.0	0	0	0	0	0	0
Animal Health Camp	3	98	62	160	90.62	1	1	2	99	64	163
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	1	41	9	50	-	5	2	7	46	11	57
Farm Science Club	2	48	12	60	3.3	3	3	6	51	15	66
Conveners meet											
Self Help Group Conveners	3	-	75	75	36.0	2	2	4	2	77	79
meetings											
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
Celebration of important days (Celebration of important days (Vigilance awareness week, Jal Shakti Abhiyan, Kisan Diwas, Millet Diwas, World Food Day, World Soil Day, Mahila Kisan Diwas, National Fish Farmers Day, World Fisheries day, OUAT foundation day, ICAR foundation day))	12	385	215	600	8	5	4	9	390	219	609

Sankalp Se Siddhi	-	-	-	-	-	-	-	-	-	-	-
Swatchta Hi Sewa	-	-	-	-	-	-	-	-	-	-	-
Mahila Kisan Divas	1	-	50	50	0.0	1	3	4	1	53	54
Any Other (Plant health clinic)	3	60	15	75	15.7	4	4	8	64	19	83
Total			359	845							
	1236	4857	4	1	12.30	75	73	148	4932	3675	8607

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	9
Radio talks	0
TV talks	5
Popular articles	1
Extension Literature	7
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		to			of f		ers vided	
					SC			ST	C	ther	Total	
					M	F	M	F	M	F	M	F
Total												

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)				ber of m see			l	
				SC			ST		Other	1	otal
				M	F	M	F	M	F	M	F
Blackgram		6 kg	480	1	2	8	2	1	1	10	5
Greengram		8kg	520	2	1	1	0	5	1	8	2
Grand Total		14 kg	1,000								

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	to	whon			of fari		orovio	ded
				S	С	S	T	Otl	her	То	tal
				M	F	M	F	M	F	M	F
Vegetable seedlings											
Cauliflower	Indam 55	1600	4,000	55	14	51	20	98	64	204	98
Broccoli	Fantasy	188	470	41	21	24	12	10	12	75	45
Tomato	NS 2535, Apurwa	4692	11,430	147	54	205	61	158	54	510	169
Brinjal	Utkal, Kalinga	4702	11,755	105	24	98	88	211	68	414	180
Chilli	Krishna, Arka Harita	12596	31,490	315	102	245	65	298	165	858	332
Marigold	Seracole	608	730	28	12	14	11	29	21	71	43
Others (Capsicum)		500	2,000	45	14	18	11	33	18	96	33
Fruits											
Mango											
Guava	VNR Bihi, Allahabad Safeda	568	28,400	14	8	10	7	28	11	52	26
Lime											
Papaya	Coorg HoneyDew	1762	44,050	22	14	35	22	54	27	111	63
Drumstick	Bhagya, ODC 3	1056	15,840	14	5	28	9	33	28	75	42
Others	3,										
Ornamental plants											
Medicinal and											
Aromatic											
Plantation											
Spices											
Turmeric											
Tuber											
Elephant yams											
Fodder crop saplings											
Forest Species											
Others, pl.specify (vegetables, fruits and cut flowers)	Tomato, brinjal, chilli,broccoli, cauliflower, capsicum, plantain, watermelon, marigold, mango, papaya, guava, potato, Amaranthus	377.85 kg	11,634	145	25	52	55	189	98	386	178
Total	etc.)	28272no. 377.85 kg	1,61,799	931	293	780	361	114 1	566	285 2	120 9

Production of Bio-Products

	Quantity									
Name of product	Kg	Value (Rs.)			No. c	f Farme	ers bei	nefitte	ed	
			SC		ST		Other	•	Total	
			M	F	M	F	M	F	M	F

Bio-fertilizers(Vermicompost)	4650 kg	69,750			193	88	225	65	566	212
Azolla	41.5 kg	1,660	148	59						
Bio-pesticide										
Bio-fungicide										
Bio-agents (honey)	16.75kg	6,700	66	15	46	25	98	36	210	76
Others, please specify. Mushroom spawn					15	2	166	45	239	69
Mushroom (Oyster)	3012 no.	46,180								
Paddy straw	80.75 kg	6,904	58	22						
	4789 kg									
Total	3012 no.	1,31,194	272	96	254	115	489	146	1015	357

Production of livestock materials

Particulars of Live stock Particulars of Live stock	Name of the breed	Number	Value (Rs.)]	No. o	f Far	mers b	enefit	ted	
				SO	C	S	Т	Otl	ner	T	otal
				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											
	(Kadaknath,		1,79,875			193	88	225	65	566	212
	Aseel, RIR,										
Duals (broiler and layer)	WLH)	3021	10.7	148	59	0.0	211		44.4	100	
Japanese Quail	37	592	105	24	98	88	211	68	414	180	37
Turkey	10 no. (20kg)	8,000	147	54	205	61	158	54	510	169	10 no. (20kg)
Emu	10 IIO. (20kg)										(ZUKg)
Ducks											
	Adult bird	24.9 1.0	6,110	28	12	14	11	29	21	71	43
Others (Pl. specify)	Addit bild	24.8 kg 628	6,280	41	21	24	12	10	12	75	45
D:		028	0,200	41	21	24	12	10	12	73	43
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries	IMC		59,000	245	55	147	35	259	88	651	178
	Advanced	52500	39,000	243	33	14/	33	239	00	031	1/8
Indian carp	Fry	32300									
Amur carp		30 kg	15,000	14	8	10	7	28	11	52	26
Tilapia advanced fry		1500	7500								
		1400	2,800	22	1.4	35	22	54	27	111	63
Fish fingerlings (IMC)		30kg	15,000	22	14						
Spawn				14	5	28	9	33	28	75	42

Others (Pl. specify) ornamental brood		40,000	125	25	87	25	198	45	410	95
fish	4000									
	59486 no.	3,40,157	889	277	841	358	1205	419	2935	1053
	104.8 kg	, ,								
Grand Total										

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

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

ii) Quality Seed Production Reports

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

iii) Financial Progress

Fund received	Expenditure	(Rs. in lakhs)	Unspent	Remarks
(2019-20, 2020-21, 2021-22 and 2022-23)	Infrastructure	Revolving fund	balance (Rs. in lakhs)	
2019-20				
2020-21				
2021-22				
2022-23				

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	Circulati
Research paper	Climate resilient technologies for augmenting livestock production and enhancing farmer's income under smallholder farming	Avijit Halder, D. Kumar, Monalisa Behera , S. Ghosh, S. K. Joshi, U. Das, A. Kumar and S.K. Roy	Indian Journal of animal health, 2022, 61 (2)-December,Special Issue: 41-54	on Mass
	Farmers perception of drought and adaptation in midcentral table land zone of Odisha	Bineeta Satpathy, Monalisa Behera and RP Mishra	The Pharma Innovation Journal 2022; SP-11(10): 564-568	Mass
	Direct and residual effect of nutrient management and rice establishment methods on productivity, profitability, nutrient uptake and resource use efficiency in rice (Oryza sativa L.)-groundnut (Arachis hypogaea L.) cropping system	Samant, T.K., Garnayak, L.M., Paikaray, Mishra, K.N., Panda, R.K. and Swain, S.K	Legume Research, 39-345. (6.67) DOI https://doi.org/10.18805/LR-4762	
	Improvement on growth, yield, economics and soil fertility of blackgram (Vigna mungo L.) under integrated nutrient management	Samant, T.K., and Mishra, D	International Journal of Bioresource and Stress Management, 14(2): 316-321. DOI: https://doi.org/10.23910/1.2 023.3302	
	Improvement of productivity, agrometeorological indices, energetics and nutrient balance of rice-groundnut cropping system.	Samant, T.K., Garnayak, L.M. and Paikaray, R.K	Bangladesh Journal of Botany, 51 (3): 477-486. DOI https://doi.org/10.3329/bjb. v51i3.61994.	
	Effect of Nutrient Management and Rice Establishment Methods on Biochemical and Physiological	Samant, T.K., Garnayak, L.M., Paikaray, R.K., Mishra, K.N., Panda, R.K., Swain, S.K.,	J. Indian Soc. Coastal Agric. Res. 40(1):38-45. DOI https://doi.org/10.54894/JIS CAR.40.1.2022	

				97
Seminar/conference/	Attributes, Yield and Economics of Rice (Oryza sativa L.) in Rice-Groundnut Cropping System in Coastal Odisha.	Sarangi, S.K. and Jena, S.N.	117229	
symposia papers				
Books				
Bulletins				
News letter	Krishi Taranga, October-2021-March- 2022 Krishi Taranga, April- 2022-September-2022	KVK, Angul	2 (1000 copies)	350
Popular Articles	Turkey palana sambandhuya abasyakiya gyana kausala Chasira sansara (inagurated during foundtion day 2022)	Dr. Monalisa Behera & Dr. Debasis Mishra	-	Mass
Book Chapter				
Extension Pamphlets/ literature	Pest and disease management in organic way	Dr.Debasis Mishra Dr.Ipsita Mishra Dr.T.K Samant	500	Mass
	Leaflet on "Turkey palana"	D. Monalisa Behera & Dr. Debasis Mishra	500	Mass
	Booklet on "Ghara aganare unnata kisamara kukuda chasa"	Dr. Monalisa Behera & Dr. Debasis Mishra	500	Mass
	Booklet on " Paramparika paddhati re pranimanankara bivinna gurutwapurna rogara chikiccha byabastha	Dr. Monalisa Behera & Dr. Debasis Mishra	500	Mass
Technical reports	Progress Report,Monthly achievement,SAC ,Special Celebration,Swachhata, Success story documentation,Case studies,Summary Report,etc	All staff	-	-
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.	Name of programme		Name of KVK personnel	Date and Duration	Organized by
No. 1.	Livestock Based Integrated Farming System for	National Refresher Course (NRC 2022) on "Recent Technologies of Livestock	and designation Dr. Monalisa Behera Scientist (Animal Science), KVK, Angul	01 to 21 February, 2022, 21 days	College of Veterinary Science and Animal Husbandry, Birsa Agricultural University, Ranchi, Jharkhand In Association with ICAR-National Agricultural Higher Education Project (NAHEP) & National Agriculture Development Cooperative Ltd (NADCL) Baramulla (UT of J & K)
2.	FPO management	Preparation and management of FPOs in the district	Dr. Gyanaranjan Sahoo Scientist (Forestry)	19.12.22 to 21.12.22 3 days	DEE
3.	National Workshop on Natural Farming	National Workshop on Natural Farming	Dr.T.K Samant Scientist (Agronomy)	03.12.2022	RVSKVV, Gwalior
4.	Orientation-cum- Training programme of the KVKs & implementing Natural Farming	Orientation-cum-Training programme of the KVKs & implementing Natural Farming	Dr.T.K Samant Scientist (Agronomy)	12.12.2022 & 13.12.2022	Natural Farming Training Centre, Gurukul, Kurukshetra, Haryana
5.	Capacity Building Workshop on Natural Farming		Dr.T.K Samant Scientist (Agronomy)	15.02.2023 & 16.02.2023	West Bengal University of Animal & Fishery Sciences, Kolkata
6.	National Workshop on Natural Farming	1	Dr.T.K Samant Scientist (Agronomy)	03.12.2022	RVSKVV, Gwalior

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

Name of farmer	Mr Kalandi Charan Roul
Address	Village-Sanjamura, Block-Kishorenagar, Dist- Angul
Contact details (Phone, mobile, email Id)	9668400163
Landholding (in ha.)	0.8 ha
Name and description of the farm/enterprise	Mr Roul is practicing rice cultivation in 2acre of land, along with poultry farming under semi-intensive system. After DFI intervention by krishi vigyan Kendra, Angul he has established a semi-intensive poultry unit of 200 bird capacity. Under continuous guidance by KVK he succeded in poultry farming with adoption of new improved poultry breeds like Aseel, Kadaknath and colour broilers.
Economic impact	The farmer used to get an annual net income of Rs. 24,500/- from rice and poultry farming in his 2 Ac farm area. He faced problems like low income from rice and from desi poultry birds. With DFI interventions introduction of poultry breeds like Kadaknath, colour broiler and Aseel, he is getting anannual net income of Rs. 1,19,500/ He has also started rearing turkey and quail under diversified poultry sector. The poultry birds he produced were sold at a good market price in his own village and there was good demand of the poultry meat produced from his farm.
Social impact	He is able to manage his family properly with the income from his farm without any financial stress. A good number of farmers from his village also started small backyard units by taking technical guidance from Mr. Roul. Visitor also attracted to his farm to see diversified poultry species like chicken, turkey and quail.
Environmental impact	The poultry litter that comes out from the farm is being utilized in agricultural activity with a good return from that sector also.
Horizontal/ Vertical spread	Now 20 more farmers of his village initiated new poultry farms under his guidance.
Good quality photographs (2-3)	





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

Sl. No.	Name/ Title of the	Name/ Details of	Brief details of the Innovative Technology
	technology	the Innovator(s)	
1.	Preparation of herbal	Sri Lalmohan	Preparation of herbal product by mixing 50
	productFor treatment of	Singh	gms of bitter guard leaf and 25 gms of C. longa
	Lumpy skin disease	Village-Purikia	(For 250 kg body weight). This composition is
		Block-Banarpal	being fed to cows with LSD in empty stomach
		Mob. No	for 5 days.
		918018471734	

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

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)

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
1	Diagnostic field visit	Farmers and Farm women
2	Group discussion	Rural Youth
3	Interaction with farmers & line officers	Farmers and Farm women
4	PRA Tools	Inservice
5	Interaction with Line department	Farmers and Farm women
6	PRA Tools	Rural Youth
7	Group discussion	Inservice
8	Discussion in Review meeting: Orchard management	Farmers and Farm women
9	PRA Tools, Group discussion	Rural Youth
10	Stake holders meet	Inservice
11	Feedback	Rural Youth
12	PRA Group discussion	Inservice
13	Stakeholders meet	Inservice

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

Sl. No	Name of the Equipment	Qty.
1	Kel plus Automatic nitrogen or prote	1
	estimation system	
2	Conductivity meter	1
3	Flame Photometer	1
4.	Automatic soil auger and bit	1
5.	Micro processor based pH meter	1
6.	Electrical stirrer	1
7.	Sieve with Brass Frame	1
8.	Refrigerator	1
9.	Digital analytical balance	1
10.	Hot Plate	1
11.	Hot Air Oven	1
12.	Servo Stabiliser	1
13.	Triple distillation set	1
14.	Binocular microscope	1
15.	Digital Spring Balance	1
16.	Water Bath	1
17.	Centrifuge	1
18.	Spectrophotometer	1
19.	Mridaparikshak	2
20.	Regent Refilling Kit	3
21.	Kits for Mridaparikshak (Glasswares)	

3.11.b. Details of samples analyzed so far

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

3.11.c. Details on World Soil Day

S1.	Activity	No. of	No. of VIPs	Name (s) of	Number of Soil Health Cards	No. of
No.		Participants		VIP(s)	distributed	farmers
						benefitted
01	World	50				50
	Soil Day					

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

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

3.13. Technology week celebration

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

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

No of student trained	No of days stayed
ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
17.10.2022	Sj Mahesh Sahoo, Hon'ble Member of Parliament,	Attended PM Kisan Samman Sammelan
	Dhenkanal	programme
13.11.2022	Dr. Pravat Ku Roul, Hon'ble Vice Chancellor,	Attended training programme on "Jal
	OUAT, Bhubaneswar	Shakti Abhiyan"
21.12.2022	Dr. H. K. Sahoo, JDE, OUAT, Bhubaneswar	SAC meeting

4. IMPACT

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

Name of specific technology/skill	No. of	% of	Change in inc	come (Rs.)
transferred	participants	adoption	Before (Rs./Unit)	After (Rs./Unit)
Artificial brooding management in chicks	10	70%	5,428/-	7,621/-
Backyard poultry farming with improved poultry breed "Kadakanath"	55	36.3%	5,700/-	9,635/-
Bypass fat feeding @ 15-20gm/kg of milk production + 50 gm Mineral mixture/ day/ cow during first 3 months of lactation	35	14.28%	10,463/-	14,814/-
Use of Multiple stocking and multiple harvesting method by Stocking of Catla: Rohu: Mrigal @ 5000/ha at 30:40:30 basis.	15	38	75,000/-	3,00,000/-
Uniform spreading of Probiotics by mixing with feed i.e. Washorich @ 15 gm/kg feed twice daily upto harvest	13	41	64,000/-	1,12,000/-
Stocking density @ 5000 fingerlings / ha.	15	34	82,000/-	2,45,000/-
Use of sinking crumbled feed @ 5 % of total biomass	12	37	71,000/-	2,38,000/-
Application of Zymac @5 kg/acre in dry form, Envomin @10kg/acre mix with 150 litre water and Jinong @ 1litre/acre mix with 100 litre water at every 3 months interval	15	12	77,000/-	1,87,000/-

Culture of livebearers @ 130 numbers of	20	24	-	4,055/ 300 sq.ft
livebearers (one species/ variety) stocked				
with a male and female ratio of 1:3				

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
Stocking of IMC yearlings @ 3000 no./ha. and	55 no./ 40.8 ha.
harvest at every 3-4 months interval by giving feed	
(GNOC+Ricebran) at 1:1 ratio for total 10 months	
culture period	
Use of Jayanti rohu for composite Pisciculture at	57 no./46.2 ha.
the ratio of 30:40:30 (Catla, Jayanti rohu & Mrigal)	
Stocking of IMC @5000 no./ha. and Fresh water	68 no./ 32.6 ha.
Prawn @7500 no. / ha.	
CIFAX @ 400 ml / ac. mixed with 200 ltr. water	56 no./ 37.2 ha.
applied at the onset of disease / before disease	
occurrence.	
Use of floating feed (2 mm) @ 8 % of the body	59 no./28 ha.
weight of fingerlings of 100 gm and sinking feed @	
6-5 % of the body weight	
Culture of livebearers @ 130 numbers of	18 no./5400 sq.ft.area
livebearers (one species/ variety) stocked with a	
male and female ratio of 1:3	
Backyard poultry farming with improved poultry breed	The technology was getting popularised in the
"Kadakanath"	district. A total of 57 no of farmers are rearing this
	breed under semi-intensive system.

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	Impact of the technology in	Impact of the technology in
	technology	subjective terms	objective terms
1	Stocking of 1,00,000	About 83 no. of farmers	Increases yield by 104.54 %
	IMC fry, feeding @ 8%	adopt this technique and	over conventinal practice &
	of biomass (1 st month)	spread to 41.5 ha.	income by 1,74,000/-
	& 6% (rest 2 months),	-	•
	liming @ 80-100 kg/ac		
	in seasonal water		
	bodies for fingerling		
	production		

4.4. Details of innovations recorded by the KVK

Thematic area	
Name of the Innovation	
Details of Innovator	

Back ground of innovation	
Technology details	
Practical utility of innovation	

4.5. Details of entrepreneurship development

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

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
CPDO, Bhubaneswar	Procurement of poultry
DSWO, Angul	Capacity building training to SHGs under Mission Shakti
	for poultry farming & Goat farming, In service training,
	celebration of International Women Day
Veterinary Dept.	Organisation of Animal Health Camp
District Administration	Sanction of Training Hall
Agriculture Dept.	World Soil Day, Strategy & RE meeting, Soil test
KVK, Dhenkanal	Sharing of Resource person
Watershed Dept.	Supply of seedlings & saplings
Horticulture Dept.	Verification of saplings
Deptt. Mishan Shakti	Rural youth training, celebration of women in agriculture
	day
OLM	For TOT
Reliance Foundation, Bhubaneswar	Audio Programmes& You tube Live phone-in Programmes
	for creating awareness regarding Biofloc fish farming
	technique & other Govt. schemes
CIFA, Bhubaneswar	Procurement of Fish seed
NFFBB, Bhubaneswar	Procurement of Amur Carp seed & other minor Carps
District Fishery department, Angul & World	Celebration of World Fisheries day

fish Centre, Bhubaneswar	
Reliance Foundation, Bhubaneswar	Audio Programmes & You tube Live phone-in Programmes for creating awareness regarding Biofloc fish farming technique & other Govt. schemes

5.2. List of special programmes undertaken during 2022 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies (information of previous years should not be provided)

a) Programmes for infrastructure development

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

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

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

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

S1.	Name of	Year	Area	Details of production			Amoun	t (Rs.)	
No.	demo Unit	of	(Sq.	Variety/bre	Produce	Qty.	Cost of	Gross	Remarks
110.	demo emt	estt.	mt)	ed	Froduce	Qty.	inputs	income	
1.									
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of	rea na)	Detai	ls of production	on	Amou	nt (Rs.)	Remarks
		harvest	Ar (h	Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	Remarks
							100		

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

S1.	Name of the		Amou	nt (Rs.)	
No.	Product	Qty. (Kg)	Cost of inputs	Gross income	Remarks
1.					

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

Sl.	Name	Details of production			An	nount (Rs.)	
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1.							

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	Months No. of trainees Traine stayed (days s		Reason for short fall (if any)
March	12	04	
November	10	05	
November	15	04	
September, October	25	02	
Total:	62	15	

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes

No. of staff quarters: 3
Date of completion: 2008
Occupancy details:

e coupancy details.						
Months	QI	QII	Q III	QIV	QV	QVI
	Q2- Mrs	Gyanaranj . DharitriP Monalisa 1	atra			

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK	SBI, ADB, Hulurisingha	Sikshyakpada, Angul	10220951144
RF	SBI, ADB, Hulurisingha	Sikshyakpada, Angul	30160005025
ATMA	SBI, ADB, Hulurisingha	Sikshyakpada, Angul	31027373302

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

	Release	d by ICAR	R Expenditure		
Item	Kharif	Rabi	Kharif	Rabi	Unspent balance as on -
Groundnut	2.40	1.2	1.79461	0.88771	0.91768
Sesame	0.50	0	0.46209	0	0.03791

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

	Released by ICAR		Expenditure		Unspent balance
Item	Kharif	Rabi	Kharif	Rabi	as on 1st April
					2013
Blackgram	0.90	0	0.70254	0	0.19746
Pigeonpea	0.90	0	0.87354	0	0.02646

2019.5. Utilization of KVK funds during the year 2022-23 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Re	curring Contingencies			
1	Pay & Allowances	115.81	115.81	103.09727
2	Traveling allowances	1.2	1.2	1.2
3	Contingencies			27.5
A	Stationery, telephone, postage and other expenditure on office running, publication of newsletter			
В	POL, repair of vehicles, tractor and equipments	2.6	2.6	2.6
C	Meals/refreshment for residential and non-residential trainings			
D	Training materials (Need based materials and equipments for conducting the training)	1.95	1.95	1.95
E	FLD	0.98	0.98	0.98
F	OFT	0.97	0.97	0.97
G	SCSP	21.0	21.0	16.50770
Н				
Ι				
J	Swachhta Expenditure	0.17250	0.17250	0.17250
	TOTAL (A)	144.6825	144.6825	127.4775
B. No	on-Recurring Contingencies			
1	Equipment and furniture			8.0
	Procurement of tractor on replacement basis	7.50	7.50	7.50
	Information Technology	0.50	0.50	0.50
2	Works			20.0
	Boundary wall and fencing	10.0	10.0	10.0
	Farm pond	5.0	5.0	5.0
	Repairing of Admn building	5.0	5.0	5.0
3	Library	0.10	0.10	0.10
	TOTAL (B)	28.1	28.1	28.1
C. RE	VOLVING FUND			4.97885
	GRAND TOTAL (A+B+C)			

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2019-20	3.76379	4.94538	1.36516	3.34400 (Rs.4.0lakhs refunded to DEE, OUAT)
2020-21	3.34400	6.06424	2.85557 (Including transfer of Rs.10,000/- towards min. balance under DAMU A/c No. 40097571224)	8.91113 (As per Cash Book) (Including Best KVK Award Prize Money (Rs.2,25,000/-+ Minimum Balance of Rs.10,000/- + Interest earned during 2019-2020 under R. Contingency A/c Rs.846/-)
2021-22	8.91113	5.9*	2.07646*	8.73467* (Rs.4.0 lakhs refunded to DEE, OUAT vide cheque no.507583/ dt.30.10.21)
2022-23	8.73467*	6.41914	4.97885	1.44029

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

7.7. Joint activity carried out with line departments and ATMA

Name of	Number of	Season	With line department	With ATMA	With
activity	activity				both
ВРН	02	Rabi	With AAO,DAO and		
DI II	02		CDAO Angul		
National Fish	01	Kharif	District Fisheries office,		
farmers Day	01		Angul		
Animal health	03	Rabi	ADD dont		
camp	03		ARD dept.		

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)

8.2. Prevalent diseases in Livestock/Fishery

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

9.1. Nehru Yuva Kendra (NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

9.3. mKisan Portal (National Farmers' Portal/ SMS Portal)

Type of message	No. of messages	No. of farmers covered
Crop	26	70624
Livestock	9	
Fishery	8	
Weather	3	
Marketing		
Awareness	1	
Training information		
Other	1	
Total	48	70624

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	99231
2.	No. of farmers registered in the portal	70624
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. <u>a.</u> Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken

b. Details of Swachhta activities with expenditure

	Activities	Number	Expenditure (in Rs.)
1.	Digitization of office records/ e-office		
2.	Basic maintenance	1	2950
3.	Sanitation and SBM	5	14,000
4.	Cleaning and beautification of surrounding areas		
5.	Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste		
6.	Used water for agriculture/ horticulture application		
7.	Swachhta Awareness at local level		
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	16,950/-

9.6. Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school

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

Give good quality 1-2 photograph(s)

9.9. Details of 'Pre-Rabi Campaign' Programme

Dat e of	No. of Union Ministers	No. of Hon'ble MPs	No. of State Govt.			Par	ticipants	(No.)			Cove rage by	Cove rage by
pro gra m me	attended the programme	(Loksabha/ Rajyasabha) participated	Ministe rs	MLAs Attende d the progra mme	Chairm an ZilaPan chayat	Distt. Collect or/ DM	Bank Offici als	Farmers	Govt. Official s, PRI member s etc.	Total	Door Dars han (Yes/ No)	other chan nels (Nu mber

9.10. Details of Swachhta Hi Suraksha programme organized

	Sl. No.	Activity	No. of villages Involved	No. of Particip ants	No. of VIPs	Name (s) of VIP(s)
Ī						

9.11. Details of Mahila Kisan Divas programme organized

Sl.	Activity	No. of	No. of	No. of VIPs	Name (s) of VIP(s)
No.		villages	Particip		
		Involved	ants		
1	Awareness programme, distribution of seed packets for kitchen garden	Bauligarh	50	-	-

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Sri. Chandan Kumar Agrawal	Panchamahala Mob. No. 9437030930	Dairy farming
2.	TrilochanaSahu	Handiguda, Chhendipada Mob.9777204526	Integrated farming system (Dairy, Poultry, Vegetables, vermicomposting)
3.	Mrs. Binapani Rout	Kusasingha, Banarpal, Mob. 9668187337	IFS (Dairy, Poultry, Vegetables, floriculture, vermicomposting, Mushroom)
4	Mr. Lalmohan Singh	Village-Purikia, Mob. 7377153574	Poultry, mushroom, Fishery and dairy
5	Mrs. Subhasini Das	Village- Nuakheta Mob. 7749085858	Mushroom and Mushroom Spawn
6.	Sri Prasanta Behera	Village-Paratara Mob.9937391459	Poultry
7.	Sri Malchand Rathi	Village- Tumuni Mob.7008479490	Dairy farming
8.	MrsMamata Sahoo	Village- Balipata Mob.7735168872	Mushroom
9.	Sri Abhaya Kumar Sahoo	Village- Barasingha Mob.9778384494	IFS (Dairy, Vegetables, Groundnut, vermicomposting, Mushroom)
10	Sri Dillip Kumar Setha	Village- Badadandasahi Mob. 6370646064	Honey Bee rearing
11	Sri Lambodar Behera	Village- Dinabandhupur Mob. 9438326831	Organic vegetable farming, Custom hiring, Weeding tools sale
12.	Pradeep Kumar Singh	Village- Budhapanka Mob.9938333002	Fishery
13.	Sri Dipen Kumar Pradhan	Village-Balasingha Mob. No-6371626090	Poultry
14.	Sri Kalandi Charan Roul	Village-Sanjamura Mob. No-9668400163	poultry

15.	Sri Pradeep Kumar	Village-Karnapur	Goatery, Poultry, Dairy, Mango
	Naik	Mob. No-7735321420	Orchard, Fish farming
16.	Sri Manoj Kumar	Village-Budhapanka	Poultry
	Samal	Mob. No9437745388	
17.	Sri Jayanta Sahu	Village-Banuasahi	Rice, Poultry, Dairy and vegetables
		Mob. No8018494119	

9.13. Revenue generation

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

9.14. Resource Generation:

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

9.15. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e.	Present status of functioning
	IMD/ICAR/Others (pl. specify)	
20.04.2021	IMD	Yes

9.16. Contingent crop planning

N.T.	N.T.	Tri .	NT 1 C	NT 1 C	A 1 ' C 1
Name	Name	Thematic	Number of	Number of	A brief about contingent plan
of the	of	area	programmes	Farmers	executed by the KVK
state	district/		organized	contacted	
	KVK				
Odisha	Angul	Varietal	5	205	Impact Based Forecast (IBF)
		substitutio			prepared in view of the Cyclone
		n, INM			"ASANI".
					Prekharif For drought prone
					upland/shallow lowland arrange
					drought tolerant varieties like
					Sahabhagi dhana, Swarna
					shreya.In-situ rainwater
					conservation. Mulching
					vegetables to conserve soil
					moisture. For upland direct seeded
					rice, arrange good quality seeds of
					varieties like CR Dhan 100
					(Satyabhama), CR Dhan 101
					(Ankit), CR Dhan 102,
					Sahbhagidhan, Phalguni,
					Vandana, Anjali, Khandagiri from
					reliable sources.For shallow

			lowland transplanted rice, arrange
			good quality seed of varieties like
			CR Dhan 307(Maudamani), CR
			Dhan 303, CR Dhan 304, MTU
			1001, MTU 1010, Naveen, CR
			Dhan 310, CR dhan 312, CR
			Dhan 314, DRR 44, Improved
			Lalat, CR Dhan 301 (Hue), CR
			Dhan 800, CR Dhan 404, Swarna,
			Pooja, SwarnaSub1 and BPT 5204
			may be arranged.
			Kharif-Close the drainage holes
			and checks the seepage loss in
			direct sown medium land rice
			= -
			Gully.Maintenance of bond Apply FYM in seed furrows.When there
			is more than 50 % mortality, raise
			nonpaddy crops like Green gram
			(K-851, PDM -54.If the rice
			population is more than 50% area
			of weeding and adjust plant
			population by removing &
			redistributing the hills and clonal
			propagation by Khelua method.
			Raise community nursery of rice
			for transplanting at a reliable
			water source. If the mortality is <
			50% the crop may be gap filled or
			Cultivate vegetable like Tomato,
			Brinjal, Chilli Sow the seeds at 5-
			6 Cm. depth by punji method (6-8
			seeds at one point) at a spacing of
			20 X 10 cm. and cover it with a
			mixture of FYM: SSP (10:1) to
			avoid seedling mortality due to
			moisture stress. Use seed rate of
			100-120 kg/ha. To maintain 40-60
			plants / Mtr. Sqr.Do not practice
			beushing (blind cultivation) in
			rice, if the crop is more than 45
			days old.
		•	

- 10. Report on Cereal Systems Initiative for South Asia (CSISA)
 - a) Year:
 - b) Introduction / General Information:

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

11. Details of TSP

a. Achievements of physical output under TSP during 2022-2023

Programmes	Physical achievements
Asset creation (Number; Sprayer, ridge maker, pump set,	
weeder etc.)	
On-farm trials (Number)	
Frontline demonstrations (Number)	
Farmers training (in lakh)	
Extension personnel training (in lakh)	
Participants in extension activities (in lakh)	
Seed production (in tonnes)	
Planting material production (in lakh)	
Livestock strains and fingerlings production (in lakh)	
Soil, water, plant, manures samples testing (in lakh)	
Provision of mobile agro – advisory to farmers (in lakh)	
No. of other programmes (Swachha Bharat Abhiyaan,	
Agriculture knowledge in rural school, Planting material	
distribution, Vaccination camp etc.)	

- b. Fund received under TSP in 2022-23 (Rs. In lakh):
- c. Achievements of physical outcome under TSP during 2022-2023

Sl. No.	Description	Unit	Achievements
1	Change in family income	%	
2	Change in family consumption level	%	
3	Change in availability of agricultural	No. per	
	implements/ tools etc.	household	

d. Location and Beneficiary Details during 2022-2023

District	Sub- district	No. of Village covere	Name of village(s) covered	ST population benefitted (No.)				
		a		M F T				

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

Natural Resource Management

Name of intervention	Numbers	No	Area	No of farmers covered /					Remarks			
undertaken	under	of	(ha)			be	enefit	ted				
	taken	units										
				SC	ST		Oth	er	Tot	al		
				M F	M	F	M	F	M	F	T	

Crop Management

Name of intervention undertaken	Area (ha)	N		rmers co		Remarks
		SC	ST	Other	Total	
		M F	M F	M F	M F T	

Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)		No	o of		mers	s cov tted	ered	l /		Remarks
				SC		ST		Oth	ner	Tot	tal		
				M	F	M	F	M	F	M	F	T	

Institutional interventions

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

Capacity building

Thematic area	No of Courses		No of beneficiaries							
		SC	ST	1	Ot	her		Tota	1	
		M	F	M	F	M	F	M	F	T

Extension activities

Thematic area	No of activities			No	of	bene	ficiar	ries		
		SC	ST	1	Ot	her		Tota	1	
		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.	Name of the	Name of the	Year	Conferring Authority	Amount	Purpose
No.	Award	Farmer				

- 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/	Trust Deed	Date of Trust Registration	Proposed Activity	Commodity Identified	No. of Member	Financia	Success indicator
NO.	Society	No.& date	Address	Activity	Identified	S	position	marcator
							(Rupees in lakh)	
							,	

16. Integrated Farming System (IFS) Details of KVK Demo. Unit

Sl. No.	Module details (Component- wise)	Area under IFS (ha)	Production (Commodit y-wise)	Cost of production in Rs. (Componen t-wise)	Value realized in Rs. (Commodity- wise)		% Change in adoption during the year
1	Pisciculture	96.15 sq.mt	38000 nos.		55000	28	11
2	Mushroom	16 sq.mt	1.4q	6000	9500		
3.	Vermi- compost	16 sq.mt	10q	2500	10,000		
4.	Azolla	1 cu.mt	54 kg	-	540		

5.	Poultry	13.93	3021 birds	1,19,875	1,79,875
		sq.mt			
6.	Apiculture	59.4 sq.mt	12 kg	-	4800
	Unit				

17. Technologies for Doubling Farmers' Income

Sl. No	the Technolo gy	Brief Details of Technology (3- 5 bullet points)	(Rs.) per ha per year due to adoption of the technolog y	farmers adopted the technolog y in the district	One high resolution 'Photo' in 'jpg' format for each technology
1.	Preparatio n of low cost poultry feed for backyard poultry and semi- intensive poultry farming	Preparation of poultry feed with ground maize 30%, GNOC 23%, Fish meal 10%, wheat bran 15%, Broken rice 20%, Di calcium phosphate 1%, Vitamins aminoacids 1.6%, salt 0.4%	4,070/- /25 birds	36	COMMON DESCRIPTION OF SHARP AND SHAR

1	Multiple stocking and multiple harvesting technology in carp culture	Single Stocking @ 6,500 fingerlings / ha & harvesting at every 3-4 months interval with seed substitution and adopting semi- intensive culture practice	3,88,267	24	O ROM NOTEA PRO NI DOMA CAMERY
2	Inclusion of medium carp species with IMC	Incorporation of labeo bata @ 15 % or 1500 no./ha in the Major Carp system i.e. (Catla :Rohu :Mrigal) @ 10000 no. /ha and culture for 6 months	319100	23	
3	Introductio n of ornamental fishery in landless situation	 Ornament al Fish, Livebearers (130 Nos.) @ =(M1:F4), breed 3 times / yr. feed mixture 23kg /yr Potassiu m permanga nate @ 5 mg/lit 	3290	14	

18. Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

	Database prep	pared/ covered for	KVK leve	l Committee	Various activity
Phase	Total no. of	Total no. of	Date of	Name of	conducted for farmers
	villages	farmers	formation	members	
I (up-to 15.03.2018)					
II (up-to 24.04.218)					
Total					

19. Information on Visit of Ministers to KVKs, if any

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

20. a) Information on ASCI Skill Development Training Programme, if undertaken during 2022

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

b) Information on Skill Development Training Programme (Other than ASCI or less than 200 hrs., if any) if undertaken during 2022

Thematic area of	Title of the	Duration	No.	No. of participants							Fund utilized for	
training	training	(in hrs.)										the training (Rs.)
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	
Rearing of honey	Scientific	32hrs	1	0	1	0	9	1	11	1	12	7200
bee	methods of											
	honey bee											
	rearing											
Rearing of honey	Scientific	32hrs	0	15	0	0	0	0	0	15	15	9000
bee	methods of											
	honey bee											
	rearing											
Production of	Preparation	16hrs	4	11	15	0	0	0	4	11	15	4500
biopesticides	procedures of											
	biopesticides and											
	its use											
Poultry	Layer poultry	40 hrs	05	05	0	0	0	00	05	05	10	7500
production	farming											

21. Information on NARI Project (if applicable)

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

22. Information on Krishi Kalyan Abhiyan Phase-III, if applicable

a) Training achievements

Name of	Period	No. of Training on diversified	No. of farm	ers trained
KVK		farming practices for doubling farmers' income organized	Male	Female
	01.01.2022			
	to			
	31.12.2022			

b) Other achievements

Sl.	Particulars	January, 2022 to
No.		December, 2022
1	Number of demonstrations other than oilseeds and pulses	
2	Number of demonstrations on oilseed crops	
3	Number of demonstrations on pulse crops	
4	Number of farmers trained	
5	Number of participants in Extension activities	
6	Number of farmers for Mobile Advisory	
7	Production of seeds (in quintal)	
8	Production of planting material (Number)	
9	Number of soil sample tested	
10	Number of farmers covered in Climate Resilient villages	
11	Number of farm families covered in Farmer FIRST project	
12	ARYA project: Number of youth trained	
13	ARYA project: Number of entrepreneurial activities started	
14	Number of farm families in DFI villages	

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

S1.	Name of the programme	Date of the	Venue	Purpose	No. of participants
No.		programme			

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



OFT on low cost concentrate mixtures to attain correct time puberty in CB Heifers



OFT on nutrient management in groundnut



OFT on Integrated Management of Sheath Blight in Rice



Demonstration on medium duration HYV rice, Maudamani : CR Dhan 307



Demonstration of Integrated management of DBM in cole crops



Demonstration on deworming and supplement feeding on body weight gain of kids



CFLD Groundnut (*Rabi*) at flowering stage



Groundnut (*Rabi*) Crop cutting on Field Day



Plant health clinic



Animal health Camp