ANNUAL PROGRESS REPORT

April 2018 to March 2019

Krishi Vigan Kendra, Angul, Odisha

ICAR-ATARI, Kolkata

Zone-V

Odisha University of Agriculture & Technology, Bhubaneswar

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
At: Panchamahala P.O: Hulurisingha District: Angul PIN: 759132 Odisha	9437143711	---	kvkangul.ouat@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Orissa University of Agriculture & Technology	0674-2397424	0674-2397818	registrarouat@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Bineeta Satpathy	---	9439795836	shyambinee@hotmail.com

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

1.5. Staff Position (as on 1st April 2018)

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. Bineeta Satpathy	Senior Scientist & Head	Agril. Extension	15600-39100 (25140+8000)	12.11.2015	Permanent	Others
2	Subject Matter Specialist	Shriram Ratan Pradhan	Subject Matter Specialist	Horticulture	15600-39100 (15600+5400)	7.12.2018	Permanent	Others
3	Subject Matter Specialist	Dharitri Patra	Scientist	Home Sc.	15600-39100 (24850+ 6000)	20.6.2018	Permanent	Others
4	Subject Matter Specialist	Tiryak Kumar Samant	Scientist	Agronomy	15600-39100 (19810+ 6000)	12.12.2012	Permanent	Others
5	Subject Matter Specialist	Gyanranjan Sahoo	Scientist	Forestry	15600-39100 (22220+ 6000)	6.10.2015	Permanent	OBC
6	Subject Matter Specialist	Dr. Monalisa Behera	Scientist	Animal Sc.	15600-39100 (17610+ 6000)	23.7.2015	Permanent	SC
7	Subject Matter Specialist	Ipsita Mishra	Scientist	Pl. Protection	15600-39100 (17610+ 6000)	6.11.2015	Permanent	Others
8	Programme Assistant	Rashmi Prabha Mishra	Programme Assistant	Fishery	9300-34800 (11940+4200)	30.7.2012	Permanent	Others
9	Computer Programmer	Prasant Kumar Sahoo	Programme Assistant (Computer)	Computer Sc.	9300-34800 (17050+4200)	25.8.2015	Permanent	OBC
10	Farm Manager	Dr. Tamalika Sarangi	Farm Manager	Nematology	9300-34800 (10560+4200)	5.2.2015	Permanent	Others
11	Accountant / Superintendent	Vacant		-			Permanent	
12	Stenographer	Biraja Prasad Jena	Junior Steno-cum-Computer Operator	-	5200-20200 (8490+2400)	18.11.2009	Permanent	Others
13.	Driver	Soumendra Kumar Mishra	Driver-cum-Mechanic	-	5200-20200 (7400+ 1900)	17.6.2013	Permanent	Others
14.	Driver	Biswanath Parida	Driver-cum-Mechanic	-	5200-20200 (7400+ 1900)	14.7.2014	Permanent	Others
15.	Supporting staff	Narendra Kumar Behera	Peon-cum-Watchman	-	4750-14680 (6290+ 1700)	30.7.2008	Permanent	OBC
16.	Supporting staff	Rabi Parida	Peon-cum-Watchman	-	4750-14680 (6290+ 1700)	2.8.2008	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 (Drainage line, Waste land, Pond, roads)	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	ICAR
8	Farm godown						15.60		
9.	Dairy unit	✓							
10.	Poultry unit					✓	13.93	Yes	ICAR
11.	Goatary unit					✓	18.58	Yes	ICAR
12.	Mushroom Lab					✓	13.38	Yes	RKVY
13.	Mushroom production unit					✓	16	Yes	ICAR
14.	Shade house	✓							
15.	Soil test Lab					✓		Yes	ICAR
16	Poly house						27.58	Yes	RKVY

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Bolero	2017	7,04,162	32,120	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	2,95,251	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
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), Revolving stool (1 No.), Lavatory Stool (1 no)	31.03.2011	19,900	Good	RKVY
Electronic Balance (1 no.)	31.03.2011	5,460	Good	RKVY

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Refrigerator	31.03.2011	18,600	Good	RKVY
B.P. One Monitor	31.03.2016	2,610	Good	ICAR
b. AV Aids				
Camera Pentax 50 mm	30.03.1996	17,780	Out of order	ICAR
Over head 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	Good	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

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	3,99	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	4,650.88	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) 1 no	05.10.2012	26,000	Good	ICAR
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 SAC meeting* conducted in the year

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	12.03.2019	30	Focus on standardization of Nursery raising Technology of Kharif Onion & implementation of use of Groundnut Kharif seed in Rabi	A training programme on nursery raising technique & Demonstration of late Kharif onion cultivation techniques have been included in the action plan.	All the programmes addressed in action taken report will be taken in the action plan.
			Promotion of water conservation, organic cultivation, Micro-Irrigation & mulching, soil health and introduction of nutrient dense food crops	Training programme on Micro irrigation & mulching will be conducted by KVK in module villages in convergence with Line Departments	
			Introduction of one drudgery reducing implement for processing of dry mango & further promotion of the value-added	Demonstration on Drudgery Reduction for picking of mango from Orchard by Fruit Harvester & a training, video	

			products of Mango, Mahua should be done	documentation programme on VAP of Mango, Mahua is to be conducted in collaboration with Dist. Horticulture department	
			Emphasis should be given for establishment of a nutritional kitchen garden model for ensuring nutritional security	Demonstration of Organic nutritional garden for Improving Nutritional Security of farm family will be conducted in farmers field along with a model will be done in KVK Campus	
			Focus should be given for up scaling of Kadaknath Poultry variety & strengthening of marketing linkage of Ornamental fishes in the District.	Demonstration on improved backyard poultry breed Kadaknath & a training programme on Ornamental fish production & its marketing is included in the plan	
			Suggestion for further spreading of stunted yearling culture Technique, Fish fingerling production, Ornamental fish rearing & F.W Prawn culture technique among SHGs & Rural youths for increasing their income	Training on stunted yearling culture, Demonstration & video documentation programme on fingerling raising technique, F.W Prawn culture & Ornamental fish rearing technique has been prioritized in the plan	
			Emphasis should be given for the documentation and publication of achievements & success stories periodically to popularize the technologies among farmers	Twelve success stories have been planned for documentation, Video documentation of five successful Entrepreneurs have been done & more five nos. planned for this year	

** Salient recommendation of SAC in bullet form*
Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2018-19)

Sl.No.	Item	Information
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

Sl.No.	Item	Information
		• 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	1. 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 5. Black soil low rainfall
4	Soil type	• Red Laterite • Black (vertisol) • Lateritic (Oxisol) • Alluvial
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	**Cereals:** Rice-23.23q/ha, Maize-19.18; **Pulses:** Blackgram-4.38 q/ha, Greengram-4.52 q/ha; Pigeonpea: 8.15 q/ha **Oilseeds:** Groundnut-18.41 q/ha; Sesame-4.06 q/ha; Mustard-1.97 q/ha **Vegetables**: Tomato-133.3 q/ha; Brinjal-150.1 q/ha; Chilli-9.89 q/ha **Fruits:** Mango-86.50 q/ha; Litchi-124.5 q/ha; Banana-91.0 q/ha
6	Mean yearly temperature, rainfall, humidity of the district	Temp (Max)- 41^0C (May), Temp (Min)- 13^0C (Dec) Rainfall-840.8 mm Humidity (Max): 84% (July), Humidity (Min): 41% (March)
7	Production of major livestock products like milk, egg, meat etc.	**Production/year** 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 (2018-19)

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	Athamalik	Athamalik	Hatiganj	Paddy, blackgram, greengram, brinjal, cauliflower, Poultry, Mushroom, goatery, Ornamental fish etc.	❖ Poor weight gain performance of local variety birds, high mortality in backyard condition, less egg production ❖ High kid mortality, weak kid birth, kidding interval high ❖ Low yield potential of mushroom ❖ Lack of knowledge regarding small scale income generating enterprises	❖ Increase income opportunities for rural youth and farm women ❖ To enhance productivity of fish, egg, milk and meat through scientific approach
2	Banarpal	Banarpal	Banuasahi	Rice, Maize, Blackgram, Greengram, groundnut, brinjal, tomato, chilli, cauliflower, okra, Dairy, etc.	❖ Use of old & low yielding variety ❖ Severe weed infestation	❖ Varietal substitution in field and vegetable crops ❖ To increase production and productivity of Paddy, oilseeds and pulses through integrated crop management
3	Angul	Angul	Talagada	Paddy, Maize, Greengram, Blackgram, Pigeonpea, Sesamum, Chilli, Turmeric, Poultry, mushroom, Ornamental fish etc.	❖ Single rice cropping and non utilisation of soil moisture during rabi rice-fallow situation ❖ Low yield and income due cultivation of rice in upland ❖ Drought situation ❖ Use of old & low yielding variety ❖ Severe weed infestation ❖ Distress sale ❖ Lack of value addition/Unhygienic Product ❖ Low yield potential of mushroom	❖ To increase production and productivity of Paddy, oilseeds and pulses through integrated crop management ❖ To enhance productivity of fish, egg, milk and meat through scientific approach ❖ Increase income opportunities for rural youth and farm women

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
4	Chhendipada	Chhendipada	Chakradharpur	Paddy, groundnut, sesamum, blackgram, greengram, brinjal, tomato, bittergourd, cauliflower, Fruit orchard (Mango, cashew), dairy, goatery, Pisciculture etc.	❖ Low yield from upland Paddy ❖ Use of old & low yielding variety ❖ Severe weed infestation ❖ Severe Leaf folder attack ❖ Incidence of blast disease ❖ Severe infestation of mango hopper ❖ Non availability of green fodder for livestock, high cost of cultivation ❖ Interspaces of tree species remain unutilized ❖ Traditional method of fish culture by stocking fingerlings ❖ Conventional method of IMC culture without using Pangas and any scientific management practices	❖ To increase production and productivity of Paddy, oilseeds and pulses through integrated crop management ❖ To reduce crop loss through integrated pest & disease management ❖ To enhance productivity of fish, egg, milk and meat through scientific approach ❖ To Promote horti-silvi -pastoral system ❖ To reduce drudgery in farm women
5	Kishorenagar	Kishorenagar	Sanjamura	Paddy, Green gram, Black gram, Onion, Pisciculture, etc.	❖ Low yield from upland Paddy ❖ Yield loss in onion due to infestation of purple blotch ❖ Traditional method of fish culture by stocking fingerlings ❖ Conventional method of IMC culture without using Pangas and any scientific management practices	❖ To enhance productivity of fish, egg, milk and meat through scientific approach ❖ To reduce crop loss through integrated pest & disease management ❖ To Promote horti-silvi -pastoral system ❖ To increase production and productivity of Paddy, oilseeds and pulses through integrated crop management

2. c. Details of village adoption programme:

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

Name of village	Block	Action taken for development
Talagada	Angul	• FLD Papaya variety Pusa Nanha and training on "Improved Package and Practices in Papaya cultivation" • Assessment of stocking density of Amur Carp in Composite fish culture system • Demonstration on Multiple stocking and multiple harvesting technology in carp culture • Demonstration on Growth of Egg-Layers in Ornamental fish culture • Assessment of improved backyard poultry breed (Kadaknath and Aseel) • Training programmes conducted • Biosecurity measures for better poultry production • Alternate use of cow dung and urine for organic farming. • Skill development training on value added milk product • OFT on assessment of mushroom cultivation in semi compost method • FLD on demonstration of nutritional garden for improving nutritional security of farm family • Training on Drudgery reduction of farm women through women friendly implements • Training
Chakradharpur	Chhendipada	• OFT Tomato hybrids Arka Rakhyak and Arka Samrat • Demonstration on Multiple stocking and multiple harvesting technology in carp culture and training on "use of stunted yearlings for enhancement of pond productivity". • Demonstration on Fingerling raising of in seasonal ponds and training on "Carp fry &fingerling production".
Sanjamura	Kishorenagar	• FLD Kharif onion variety Bhima Dark Red and training on "Production Technology of Kharif Onion" • Demonstration on Growth of *Puntius sarana* in composite fish culture system & training on "Species selection and management of stocking density in Composite Carp culture system. • Demonstration on backyard poultry var. Pallishree. • Training programmes conducted • Backyard poultry farming. • Important diseases of poultry and their prevention • Training on paddy straw mushroom cultivation
Hatiganj	Athamalik	• OFT Tomato hybrids Arka Rakhyak and Arka Samrat and training on "Nursery raising techniques in low cost polyhouse" • Demonstration on broiler quail farming under semi-intensive system. • Training programmes conducted • Feeding and health management in goats

Name of village	Block	Action taken for development
Banuasahi	Banarpal	• Demonstration on Growth of *Puntius sarana* in composite fish culture system • Demonstration on probiotic supplementation in crossbred cattle and its effect on milk yield • Training programmes conducted • Feeding of processed crop residues for better utilization by dairy animal

2.1. Priority thrust areas

S. No	Thrust area
1.	Promotion of hybrid variety cultivation in vegetables for increasing yield
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
4.	Popularisation of aromatic crops cultivation
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.	To improve productivity from livestock sector
14.	Increase income opportunities for rural youth and farm women through poultry farming, scientific goat rearing and improved dairy managemental practices.
15.	To develop entrepreneurship through capacity building measures programmes on poultry dairy and goatery
16.	Post harvest technology and value addition of cereals, pulses, oil seeds, vegetables and fruits.
17.	Drudgery reduction through use of farm implements.
18.	Creating avenues for self employment through entrepreneurship development.
19.	Family food and nutritional security.
20.	Production and management of organic input.

3. TECHNICAL ACHIEVEMENTS

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

OFT												FLD										
No. of technologies tested:												No. of technologies demonstrated:										
Number of OFTs		Number of farmers										Number of FLDs		Number of farmers								
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement							
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
14	8	104	3			1	45	14	48	15	63	26	19	150	1	9			56	29	57	38	95

Training												Extension activities										
Number of Courses		Number of Participants										Number of activities		Number of participants								
Target	Achiev-ement	Target	Achievement									Target	Achiev-ement	Target	Achievement							
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
118	76	2045	50	119	10	7	768	616	817	733	1570	342	337	9960	822	154	346	64	8078	1654	9246	1872	11118

Impact of capacity building											Impact of Extension activities										
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T
2045	1670	54	13	12	5	106	42	172	60	232	9960	11118	9	4	3	1	97	37	109	42	151

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
30	23.4	3,01,000	2,64,743

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
0.13305	0.37076	0.003	0.00155

* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	**Number**	**No. circulated**	**No. of Research papers in NAAS rated Journals**	**Highest NAAS rating of any publication**	**Average NAAS rating of the publications**	**Details of awarded publication, if any**	**Details of Award given to the publication**
Research paper	3	1	3	5.36	4.62		
Seminar/ conference/ symposia papers	2						
Books	1						
Bulletins	12						
Newsletter	2						
Popular Articles	2	1					
Book Chapter							
Extension Pamphlets/ literature	8						
Technical reports	14						
Electronic Publication (CD/ DVD etc)	4						
TOTAL	**48**						

1. Achievements on technologies assessed and refined

OFT-1

1.	**Title of On farm Trial**	**Assessment of BPH tolerant rice varieties**
2.	**Problem diagnosed**	Low yield in rainfed /irrigated medium land transplanted rice due to use of old variety susceptible to BPH
3.	**Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)**	**TO_1**: Pratikshya (142 days duration; Average yield: 50 q/ha; resistant to BPH) **TO_2**: Hasanta (146 days duration, Average yield: 55 q/ha; resistant to BPH, WBPH, leaf blast, sheath rot)
4.	**Source of Technology (ICAR/ AICRP/ SAU/ other, please specify)**	OUAT, 2005; OUAT, 2014
5.	**Production system and thematic area**	Rainfed medium land
6.	**Performance of the Technology with performance indicators**	Grain yield, Net return & B:C ratio
7.	**Final recommendation for micro level situation**	By using var. Hasant, no BPH attack was seen with 46.8 q/ha production
8.	**Constraints identified and feedback for research**	Availability of seeds in time
9.	**Process of farmers participation and their reaction**	Participatory

***Thematic area**: Varietal evaluation*

Problem definition: Low yield in rainfed /irrigated medium land transplanted rice due to use of old variety susceptible to BPH

Technology assessed: Assessment of BPH tolerant rice varieties

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of hoppers/ tiller							
FP	10	14	5.08		12.79	42	28725	48800	20075	1.41
TO_1	10	14.2	4.8		6.42	42.3	29813	52630	22817	1.43
TO_2	10	14.8	0		Nil	46.8	26645	59870	36225	1.60

Results: Var. Hasant, is resistant to BPH attack with 46.8 q/ha production

OFT-2

1.	Title of On farm Trial	Assessment of newly released tomato hybrids
2.	Problem diagnosed	High cost of tomato during summer and low yield from the prevailing variety
3.	Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)	**TO_1**: **Arka Samrat:** It is a high yielding F1 hybrid with combined resistance to ToLCV & BW and tolerant to early blight. Plants semi-determinate with good foliar cover. Foliage dark green. Fruits oblate-high round, firm (8.0 kg/cm²), medium large (90-100g) with the light green shoulder. First fruit maturity 55-60 days and Develops deep red color on ripening. Yields 80 tons/ha. in 140 days. Suitable for summer, Rabi and Kharif seasons. **TO_2**: **Arka Rakhyak:** It is a high yielding F1 hybrid developed by crossing IIHR-2834 X IIHR-2833. First F1 hybrid with triple disease resistance to ToLCV, BW and early blight. Fruits square round, large (90-100g), deep red colored and firm. Suitable for fresh market and processing.Yield: 75-80 t/ha in 140 days.
4.	Source of Technology (ICAR/ AICRP/ SAU/ other, please specify)	IIHR, Banglore
5.	Production system and thematic area	Medium land Irrigated, Paddy-Vegetable cropping system; Thematic area: Yield increment
6.	Performance of the Technology with performance indicators	Arka Samrat: Fruit weight- 85-90 g, Yield on first harvest- 800 g per plant, Yield- 45 T/ha Arka Rakhyak: Fruit weight- 90-95 g, Yield on first harvest- 1kg per plant, Yield- 46 T/ha
7.	Final recommendation for micro level situation	Arka Rakhyak should be cultivated as a tomato hybrid for yield enhancement as its giving higher yield advantage of over 77% over some of the locally available private hybrids.
8.	Constraints identified and feedback for research	Some plants were affected with blight like symptoms which farmers were telling that they were wilting in their local language. The shelf lives of the products were very good ranging from 30 to 40 days even under normal room temperature.
9.	Process of farmers participation and their reaction	

Thematic area: Yield increment

Problem definition: High cost of tomato during summer and low yield from the prevailing variety

Technology assessed: Cultivation of wilt resistant tomato var. Arka Samrat and Arka Rakhyak

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Fruit weight	Fruit weight per plant	No of fruits per plant						
FP	10	70-80 g	3.25 kg	43	Wilt incidence 30-40 %, Leaf curl virus 20 %	259	86,200	1,55,400	69,200	1.80
TO_1	10	85-90g	5.6 kg	64	Wilt incidence 4-5 %, Leaf curl virus 2-3 %	450	1,31,200	2,70,000	1,38,800	2.05
TO_2	10	90-95g	5.75 kg	63	Wilt incidence 5 %, Leaf curl virus 3-4 %	460	1,31,200	2,76,000	1,44,800	2.10

Results: Arka Rakhyak was found to be the better performer compared to Arka Samrat and locally grown hybrids, hence recommended for the tomato growers of the region.

OFT-3

1.	**Title of On farm Trial**	Assessment of Integrated pest management of WBPH and BPH in rice
2.	**Problem diagnosed**	Low yield and heavy damage of the crop
3.	**Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)**	**TO_1**: Making alleys at a distance of 2 m in paddy field. use of spider trap @ 25/ha, need based Alternate Spraying of flonicamid 50 WG @ 60 gm /acre and neem based pesticide 3000 ppm @ 600 ml/acre @ 10 days interval. **TO_2**: Repeated with Spraying of pymetrozene 50 WG @ 120 gm/acre (Assessed)
4.	**Source of Technology (ICAR/ AICRP/ SAU/ other, please specify)**	**NRRI 2014**
5.	**Production system and thematic area**	IPM
6.	**Performance of the Technology with performance indicators**	No. of hoppers/ tiller- 5.08, % Damage-7.45, Yield-40.06, B.C ratio-1.56
7.	**Final recommendation for micro level situation**	Line sowing should be done by farmers to avoid BPH/WBPH population. Some distance should be left after 2m in paddy field for easy intercultural operations and spraying of pesticides. Pesticides should be spray to the basal portion of the plant.
8.	**Constraints identified and feedback for research**	Farmers were spraying pesticides to the whole plant randomly, but it should be to the basal position as the pest congregate there.
9.	**Process of farmers participation and their reaction**	Farmers were interested to know the technology by which the pest can be controlled and they promised to continue the same in the next season.

Thematic area: IPM

Problem definition: Yield loss due to BPH/ WBPH attack

Technology assessed: Assessment of Integrated pest management of WBPH and BPH in rice

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of hoppers/ tiller								
FP	10	8.06			12.79	34.71	36500	52065	15565	1.42
TO_1	10	7.04			11.04	36.43	37200	54645	17445	1.46
TO_2	10	5.8			7.45	40.06	38500	60090	21590	1.56

Results: Spraying of pymetrozene 50 WG @ 120 gm/acre along with Making alleys at a distance of 2 m in paddy field. use of spider trap @ 25/ha and neem based pesticide 3000 ppm @ 600 ml/acre @ 10 days interval controls BPH & WBPH

OFT-4

1.	**Title of On farm Trial**	Assessment of IDM practice for management of sigatoka disease in banana
2.	**Problem diagnosed**	No sucker treatment; Spraying of Carbendazim, (Carbendazim + Mancozeb) @ 1 kg/ha at advanced stage of infection
3.	**Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)**	**TO_1**: Alternate spraying of Bordeaux mixture 1 % and (Propiconazole 25 EC + Carbendazim 50 WP) @ 500 gm/ha at 15 days interval and additional dose of 25 % potash (100:100:375) **TO_2**: Alternate spraying of Bordeaux mixture 1 % and (Tebuconazole 50 WG + Trifloxystrobi 25 WG) @ 200 gm/ha at15 days interval and additional dose of 25 % potash (Assessed)
4.	**Source of Technology (ICAR/ AICRP/SAU/other, please specify)**	**ICAR-NRC for banana Trichy,2014**
5.	**Production system and thematic area**	IDM
6.	**Performance of the Technology with performance indicators**	% infestation-14.17, Cont….
7.	**Final recommendation for micro level situation**	Need base and alternate use of pesticides should be followed by the farmers for better result.
8.	**Constraints identified and feedback for research**	Indiscriminate use of a single pesticide i.e Blitox 50 over a long period of time
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: IDM

Problem definition: Yield loss due to severe infestation and low market value due to poor quality fruits

Technology assessed: Assessment of IDM practice for management of sigatoka disease in banana

Table

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	10				33.04					
TO_1	10				24.28					
TO_2	10				14.17				Cont…..	

Results:

OFT-5

1.	**Title of On farm Trial**	**Assessment of Paddy straw mushroom cultivation in compost method**
2.	**Problem diagnosed**	Unavailability of Paddy straw due to mechanization in harvesting
3.	**Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)**	**TO_1**: Mushroom cultivation in paddy straw bundles in Bed method with 2% lime soaking threshed straw in bed followed by Spawning **TO_2**: Soaking threshed straw in 2 % Ca Co3+ Composting with 1.5% Poultry manure & 5 % wheat bran heaped in open condition covered with polythene for composting for 15 days followed by Spawning
4.	**Source of Technology (ICAR/ AICRP/ SAU/ other, please specify)**	CTMRT, OUAT-2014
5.	**Production system and thematic area**	Homestead, Mushroom production
6.	**Performance of the Technology with performance indicators**	No of fruits/ Bed, Fruit Weight (g), Initiation of Pinhead (days), Bio-efficiency (%), B:C Ratio, Yield (Kg/Bed)
7.	**Final recommendation for micro level situation**	Good yield with increased nos. of fruiting bodies and size
8.	**Constraints identified and feedback for research**	Initial investment is high for growing room and growing room will be pucca house with insulation otherwise chances of contamination is more
9.	**Process of farmers participation and their reaction**	Method demonstration and farmers appreciated the technology due to good yield.

Thematic area: Mushroom production

Problem definition: Unavailability of Paddy straw due to mechanization in harvesting

Technology assessed: Assessment of Paddy straw mushroom cultivation in compost method

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield Kg/bed	Cost of cultivation (Rs./unit)	Gross return (Rs/(10bed/unit)	Net return (Rs/(10bed/unit)	BC ratio
		No of fruits/Bed	Fruit Weight(g)	Bio-efficiency (%)						
FP	10	48	21.12	11		1.1	500	1650	1150	3.3
TO_1	10	52	23.1	11.8		1.18	500	1770	1270	3.54
TO_2	10	55	24.21	16.2		1.62	508	2430	1922	4.78

Results: Paddy straw mushroom cultivation in compost method yields 1.62 kg/bed with a bio efficiency of 16.2%

OFT-6

1.	**Title of On farm Trial**	**Assessment of improved backyard poultry breed**
2.	**Problem diagnosed**	Poor weight gain in local breed, high mortality, less egg production
3.	**Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)**	**TO_1**: Aseel kala (Body weight 20 wk-1220 gm, Egg production-167/annum) **TO_2**: Kadaknath (Body weight 20 wk-1170gm, Egg production-190 /annum)
4.	**Source of Technology (ICAR/ AICRP/ SAU/ other, please specify)**	CPDO
5.	**Production system and thematic area**	Poultry production
6.	**Performance of the Technology with performance indicators**	Body weight at 20 weeks, Egg production/ annum Mortality %, Age of first laying (weeks), Net income, B:C ratio
7.	**Final recommendation for micro level situation**	Kadaknath chicken is providing low cholesterol, high protein meat along with special medicinal value in homeopathy and nervous disorder. The meat is also suitable for cardiac patients as it increases blood supply to heart. Also it is having effectiveness in treating women's habitual abortion and sterility. The eggs can also be utilized to treat severe headaches, asthma and nephritis. Hence, this indigenous breed should be popularized and practiced in backyard rearing system.
8.	**Constraints identified and feedback for research**	It was observed that the colour of the meat is the only constraint in acceptability by the consumer, otherwise meat tastes good.
9.	**Process of farmers participation and their reaction**	The farmers were aware about the medicinal benefits of the meat and egg. They wanted to initiate this kadaknath chicken in commercial mode.

Thematic area: Poultry production

Problem definition: Poor weight gain in local breed, high mortality, less egg production

Technology assessed: **Assessment of improved backyard poultry breed**

Table:

Technology option	No. of trials	Yield component			mortality (%)	Yield (Avg. body wt/bird+ No. of Egg/ 6 month)	Cost of cultivation (Rs./unit of 20 birds)	Gross return (Rs/ unit of 20 birds)	Net return (Rs./ unit of 20 birds)	BC ratio
		Avg body wt/25 wks	Avg. egg production/ 6 months	Age of first laying (weeks)						
FP	5	Cock:1.1kg, Hen: 0.9 kg Avg:1 kg	25 eggs	26 weeks	20%	1 kg	2100	7960	5860	3.8
TO_1	5	Cock:2.3kg, Hen:1.5kg Avg: 1.9kg	88 eggs	25 weeks	3%	1.9 kg	5720	22,720	17,000	3.9
TO_2	5	Cock:1.7kg, Hen:1.4 kg Avg:1.5kg	110 eggs	25 weeks	3%	1.5 kg	5720	26,500	20,780	4.6

Results: The assessment concluded that the Kadaknath breed of chicken is preferable over Aseel and Desi chicken in terms of net return.

OFT-7

1.	**Title of On farm Trial**	**Assessment on hydroponic fodder for feeding management in dairy cattle.**
2.	**Problem diagnosed**	High rate of concentrate, scarcity of grazing land and lack of fodder
3.	**Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)**	**TO_1**: 10 kg Hydroponic fodder (Wheat) replacing 1 kg concentrate **TO_2**: 10 kg Hydroponic fodder (Maize) replacing 1 kg concentrate Green fodder yield-15-20 kg / 2 kg seeds, Harvest after 8-12 days, 10 kg fodder can replace 1 kg concentrate feed and increases milk yield upto 1kg, labour requirement: 2-3 hrs/day, water requirement to grow 1 kg fodder-2-3lts.
4.	**Source of Technology**	TNAU, 2014
5.	**Production system and thematic area**	Feed management
6.	**Performance of the Technology with performance indicators**	Green fodder yield/ unit cost, Labour requirement, Duration of harvesting, milk yield, SNF%, Fat%, Net Income, reduction in cost of feed, B:C ratio
7.	**Final recommendation for micro level situation**	Low cost hydroponic fodder cultivation models should be popularized in cases of fodder scarcity.
8.	**Constraints identified and feedback for research**	Availability of good quality seed is the major constraint, which reduces the fodder production by reducing the seed germination %.
9.	**Process of farmers participation and their reaction**	Farmers acceptability was low.

Thematic area: Feed management

Problem definition: High rate of concentrate, scarcity of grazing land and lack of fodder

Technology assessed: Assessment on hydroponic fodder for feeding management in dairy cattle.

Table:

Technology option	No. of trials	Yield component		Yield (milk yield/cow/ months)	Cost of cultivation (Rs./cow)	Gross return (Rs/cow)	Net return (Rs./cow)	BC ratio
		Avg daily milk yield(ltr)	Green fodder yield (kg/ unit)					
FP	3	7.20 lts	-	216 lts	4200	6480	2280	1.54
TO_1	3	7.78 lts	6.0 kg/kg of wheat seed	233.4 lts.	4050	7002	2952	1.72
TO_2	3	7.89 lts	7.5 kg/kg of maize seed	236.7 lts.	4030	7101	3071	1.76

Results: The assessment on hydroponic fodder cultivation concluded that in case of hydroponic maize the green fodder yield was more as well as better milk yield and net return in comparison to hydroponic wheat.

OFT-8

1.	**Title of On farm Trial**	Assessment of stocking density of Amur Carp in Composite fish culture system
2.	**Problem diagnosed**	Slow growth rate of mrigal affects the average yield from composite carp culture
3.	**Details of technologies selected for assessment/ refinement (Mention either Assessed or Refined)**	Mrigal as bottom feeder along with Catla and rohu fish with stocking rate up to 30% or more **TO_1**:Use of Amur Carp fingerlings @ 1000 no./ha with (Catla 30 :Rohu 40 : Mrigal 20: A.C 10) and culture for 5-6 months at a stocking density of 10,000 nos/ha (TO1) **TO_2**Use of Amur Carp fingerlings @ 1500 no./ha with (Catla 30:Rohu 40 : Mrigal 15: A.C 15) @ 10,000 no. /ha and culture for 5-6 months (TO2)
4.	**Source of Technology (ICAR/ AICRP/ SAU/ other, please specify)**	CIFA, 2012 / OUAT
5.	**Production system and thematic area**	Production Management
6.	**Performance of the Technology with performance indicators**	Yield in (q/ha), % change in yield and B:C ratio
7.	**Final recommendation for micro level situation**	Use of Amur Carp fingerlings @ 1500 no./ha with (Catla 30:Rohu 40 : Mrigal 15: A.C 15) @ 10,000 no. /ha and culture for 5-6 months increases yield 135.36 % over farmers practice leading to maximization of profit.
8.	**Constraints identified and feedback for research**	Non availability of quality seed in proper time, Non adoption of scientific techniques by farmers Amur carp is a bottom feeder and can suitably substitute mrigal. It is a genetically improved common carp with a slender body, late maturing and grows faster than Mrigal i.e. 700-800 gm within 1st 5-6 months) in the first year of their culture. So it should be included with major carps for increasing income.
9.	**Process of farmers participation and their reaction**	Many Farmers are awared & interested in practising this type of culture practice in place of traditional Major Carp culture through participation in Training & Demonstration programmes conducted by KVK. The farmers of the trial interested to adopt this Improved variety and realized the benefits of replacement of Amur Carp in place of Mrigal. So this year EOI Proposal of the progressive farmers will submit to NFDB for Amur Carp culture on large scale.

Thematic area: Production Management

Problem definition: Slow growth rate of Mrigal affects the average yield from composite carp culture

Technology assessed: Assessment of stocking density of Amur Carp in Composite fish culture system

Table:

Technology option	No. of trials	Yield component	change in parameter (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Avg. Amur Carp growth after 5 months observation (Fish wt. in gm)						
FP	3	240		16.4	73,600	2,29,600	1,56,000	3.12
TO_1	3	710	195.83	36.8	83,200	5,15,200	4,32,000	6.19
TO_2	3	721	200.41	38.6	85,400	5,40,400	4,55,000	6.33

Results: Inclusion of Amur Carp fingerlings@ 10-15 %with IMC increases yield 135.36 % over farmers practice only within 6 months leading to maximization of profit.

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Paddy	Varietal substitution	Hiranmayee, 135 days duration; Average yield: 54.53 q/ha; Potential yield: 125.07 q/ha	1	1					5		5		5	
2.	Paddy	IWM	Post-emergence application of bispyribac sodium 10% SC @ 200 ml/ha + almix (chlorimuron + metsulfuron) 40 ml/ha at 25 DAT effectively controls grasses, some broad leaved weeds and sedges in transplanted rice	1	1					5		5		5	
3.	Paddy	Soil fertility management	Soil test based fertilizer recommendation (RDF: 40:20:20 kg NPK/ha) + FYM @5 t/ha incubated by biofertilisers like *Azosporillum, Azotobactor & PSB* @ 5 kg/ha each	1	1	1				4		5		5	

Details of farming situation

Crop	Season	Farming situation (RF/ Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P_2O_5	K_2O					
Paddy	Kharif	RF						25.6.18	10.11.18	249.19	64
Paddy	Kharif	RF					Vegetble	28.6.18	15.11.18	249.19	64
Paddy	Kharif	RF						7.7.18	30.10.18	249.19	64

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

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

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

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

** BCR= GROSS RETURN/GROSS COST

Pulses

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Blackgram	IPM	Demonstration of IPM practice for management of aphid in blackgram	5	2	7.8	6.32	23.41	22450	55250	32800	2.46	21500	47580	26080	2.21
	Total		**5**	**2**											

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

** BCR= GROSS RETURN/GROSS COST

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cucumber	IDM	Demonstration of IDM practice for management of downy mildew in cucumber	5	2	73.84	64.78	13.99	%Infestation 5.3	%Infestation-15.36	80000	147680	67680	1.8	78000	129560	51560	1.6

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Okra	IPM	Demonstration on management of leaf hopper in okra	5	2	107.4	82.84	29.64	Number of hoppers per three leaves-12.8	Number of hoppers per three leaves-22.58	75000	161100	86100		73000	124260	51260	1.7
Mango	IPM	Demonstration of IPM practice for management of mango hopper	5	2				Number of hoppers/ twig-13.44	Number of hoppers/ twig-28.66							Cont…	
Kharif Onion	Yield increment	Kharif onion cultivar Bhima Dark Red	5	1	208.79	160.86	29.79	Days to maturity 110 days	Days to maturity 100 days	183595	313185	129590	2.63	153230	241290	88060	2.20
Papaya	Yield increment	Papaya variety Pusa Nanha	5	1	500	370	62	Fruit yield per plant 17 kg	Fruit yield per plant 12 kg	108377	300000	191623	1.46	121000	222000	100350	1.29
		Total	**25**	**8**													

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow	Dairy management	Demonstration on probiotic supplementation in crossbred cattle and its effect on milk yield	5	5	Avg daily milk yield: 3.96 lts	Avg daily milk yield: 3.48 lts	13.79 %	Fat%: 4.41 SNF%: 8.41	Fat%: 3.96 SNF%: 8.15	3635	7524	3889/ cow/ 50 days	2.06	3375	6612	3237 / cow/ 50 days	1.95
Buffalo																	
Poultry	Poultry management	Demonstration on backyard Poultry var. Pallishree	10	10	Average body weight/ bird/4 months: 3.09kg	Average body weight /bird/4 months: 1.91kg	61.7%	Average body weight Hen: 2.75kg Cock: 3.43kg,	Average body weight Hen: 1.7kg Cock: 2.12 kg	2660	9448	6788	3.55	2740	5475	2735	1.99

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (Quail)	Poultry management	Broiler quail farming under semi-intensive system	5	5	Body weight at 5 weeks-197gms Avg. egg yield/9 months: 234 eggs					4948	6378	1430	1.28				
Total			**20**	**20**													

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

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Indian Major Carps	Production Management	Multiple stocking and multiple harvesting technology in carp culture	5	5	36.4	16	127.5	W 712 gm	W 287 gm	121333	509600	388267	4.2	110344	224000	113656	2.03
Indian Major Carps	Production Management	Fingerling raising of in seasonal ponds	5	5	Avg. 72000 fingerlings / 2 crops /3 months	Avg. IMC yield 17 q/ha.	41.18 % change in income	W of fingerlings 9 gm	W of fish 545gm	60000	288000	228000	4.8	101176	240800	136800	2.04

IMC & *Puntius sarana*	Production Management	Growth of *Puntius sarana* in composite fish culture system	5	5	28.1	17.2	63.37	W 375 gm	W 249 gm	108076	393400	285400	3.64	96320	240800	144800	2.5
Ornamental fishes	Production Management	Growth of Egg-Layers in Ornamental fish culture	5	5	Cont….			Length 62mm Wt. 5gm	Length 38 mm Wt. 3gm								
	Total		**20**	**20**													

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

Other enterprises

Category	**Name of the technology demonstrated**	**No. of Farmer**	**No. of units**	**Major parameters**		**% change in major parameter**	**Other parameter**		***Economics of demonstration (Rs.) or Rs./unit**				***Economics of check (Rs.) or Rs./unit**			
				Demonstration	**Check**		**Demonstration**	**Check**	**Gross Cost**	**Gross Return**	**Net Return**	**** BCR**	**Gross Cost**	**Gross Return**	**Net Return**	**** BCR**
Oyster mushroom	Enterprise development															
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Mango leather	Mango leather in Solar Cabinet Dryer	10	10	Shelf life period 9.2 months	Shelf life period 3 months	6.2 months			380	990	610	2.60	380	630	250	1.66
Value added tomato based product	Value added tomato based product for income generation	10	10	Shelf life period 3 months	Shelf life period 5-8 days	2months 20days			95/kg soup mix	340/kg soup mix	250/kg soup mix	3.57	100/ 10kg tomato	170/10kg tomato	70/10kg tomato	1.8
Nutritional garden	Nutritional garden for Improving Nutritional Security of farm family	5	5	Consumption of vegetables: 652gm/ day/ Family	Consumption of vegetables: 270gm/ day/ Family	Increase in consumption of Vegetables as compared to RDA (%) 54.16	Avg Yield 2.1 qtl/ unit	Avg Yield 1.07qtl/ unit	690	2150	1460	3.1	650	810	160	1.24
Total		**25**	**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

Women empowerment

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

Farm implements and machinery

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

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

Demonstration details on crop hybrids

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

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

Technical Feedback on the demonstrated technologies

Sl.No	Crop	Feed Back
1	Blackgram	Aphid is a common problem in Angul district which reduces the yield up to 15% but farmers are spraying immidacloprid repeatedly over a long period of time so they are advised to use need based pesticides alternatively when the pest population reach ETL.
2	Cucumber	Repeated spraying of fungicides with proper dose was recommended.
3	Okra	Need based use of pesticides with safety measures are recommended to farmers for the control of pest population which leads to increase in yield.
4	Mango	Alternate and need base use of pesticides in the basal portion of the tree and inflorescence was recommended for control of mango hopper.
5	Ornamental Fish	Ornamental fish rearing Technique is one of the small scale Income generating Enterprise adopted by many farmers & Entrepreneurs of Angul district owing to its high market price i.e. 10-15 Rs. per fish
6	Stunted yearlings of IMC	127.5 % increase in yield was observed due to stunted yearling culture. So farmers were shown their keen interest for Multiple stocking & harvesting method of advanced fingerlings/stunted yearlings in place of fingerlings in Composite fish culture system for enhancement of their pond productivity within less time period
7	*Puntius sarana* & Amur Carp fish with IMC	Many farmers are interested to adopt the culture practice of Puntius due to its fast growth rate i.e. 500-600 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. *Puntius sarana,* Amur Carp & jayanti rohu etc.
8	Papaya (Pusa Nanha)	Very small plants but high yield, Problem of male plant identification before flowering
9	Onion (Bhima Dark Red)	Very suitable variety for cultivation in kharif season, Larger bulbs than previously grown variety
10	Poultry (Breed- Pallishree)	Growth performance of Pallishree chicks is better than any other colour synthetic broiler bird.
11	Poultry (Quail)	Quail meat and eggs taste is well accepted by the farmers, but the early chick mortality is a problem.
12	Dairy (Probiotic)	During peak summer the probiotic powder works better and checks the production loss due to heat stress.
13	Demonstration of Mango leather in Solar Cabinet Dryer	Solar cabinet dryers were well suited to drying small quantity fruits. The additives include Potassium metabisulphite and citric acid add higher quality and longer storage to fruit leather
14	Demonstration of nutritional garden for Improving Nutritional Security of farm family	Backyard organic nutritional gardening is a low cost sustainable approach to mitigate malnutrition especially rural households. It contributes to household nutritional security by providing direct access to nutritional food that can be harvested ,prepared and fed to family on daily basis.
15	Value added tomato based product for income generation	Tomato soup mix with high organoleptic value and has a longer shelf life once opened should be stored in refrigerator. It is a good source of vit-A, B and C with powerful antioxidant lycopene.

Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	29.03.19, 30.03.19, 1.9.18, 23.10.18, 26.10.18, 5.2.19, 29.3.19	8	390	
2.	Farmers Training	20.7.18, 24.7.18, 28.8.18, 15.9.18 20.07.18, 28.08.18, 17.09.18, 12.06.19, 9.08.19, 31.01.19, 11.1.19	23	555	
3.	Media coverage				
4.	Training for extension functionaries	27.11.18	1	15	

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2018 and Rabi 2018-19:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1	Groundnut	Tichine	15.0	-312	38	-1000	Use of HYV Devi); Seed treatment with carboxin + thiram Application of herbicide (pendimethalin) and Micronutrient (Zn EDTA)	50	20	24.82	16.53	21.2	10.05	28.2	25.3

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
2	Sesame	Tilei rasi	5.48	142	140	-252	Use of HYV (Amrit); Seed treatment with carboxin + thiram; Application of herbicide (imazethapyr); Application of micronutrient (Zn EDTA) Plant protection measures (Application of prophenophos + cypermethrin against leaf webber and capsule borer Application of Carbendazim + Mancozeb against Damping disease	48	20	9.32	4.50	8.25	45.0	43.9	-10.8
3	Blackgram	Khunti biri	5.30	192	75	-670	Use of HYV (OBG 17); Seed treatment (carboxin + thiram @3 g/kg of seed before sowing); Application of bifertilizer (Rhizobium) And PSB.	50	20	8.60	6.20	7.55	54.8	38.5	-60.0

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
4	Pigeonpea	Kangula	10.0	218	125	-580	Use of HYV: (PRG 176 Ujwala); Seed treatment (carboxin + thiram @ 3g/kg of seed; Application of and bifertilizer (Rhizobium) and PSB. Imazethapyr @1 litre/ha at 20 DAS). Plant protection measures (Application of prophenophos + cypermethrin@1 litre /ha against pod borer	24	10	15.2	13.3	14.4	44.3	39.8	-11.2

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
5	Greengram	Desi muga	3.70	82	46	-572	Use of HYV (IPM 02-3); Timely plant protection measures (Spraying of prophenophos @ 1 litre/ha against foliage beetles during vegetative stage, immidacloprid @ 500ml/ha against aphids during vegetative stage and thiomethoxam @ 125g/ha against white fly (YMV) during maturity stage)	50	20	7.80	6.44	7.60	40.7	35.7	-55.3

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	Use of HYV Devi; Seed treatment with carboxin + thiram Application of herbicide (pendimethalin) and Micronutrient (Zn EDTA)	36324	63750	27426	1.76	43480	90100	46620	2.07
2	Use of HYV Amrit; Seed treatment with carboxin + thiram; Application of herbicide (imazethapyr); Application of micronutrient (Zn EDTA); Plant protection measures (Application of prophenophos + cypermethrin against leaf webber and capsule borer. Application of Carbendazim + Mancozeb against Damping disease	19430	28496	9066	1.47	23430	42900	19470	1.83

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
3	Use of HYV (OBG 17); Seed treatment (carboxin + thiram @3 g/kg of seed before sowing); Application of bifertilizer (Rhizobium) and PSB.	15589	26500	10911	1.7	18875	37750	18875	2.1
4	Use of HYV: (PRG 176 Ujwala); Seed treatment (carboxin + thiram @ 3g/kg of seed; Application of and bifertilizer (Rhizobium) and PSB.imazethapyr@1 litre/ha at 20 DAS). Plant protection measures (Application of prophenophos + cypermethrin@1 litre /ha against pod borer	27800	55580	27780	1.9	32800	78480	45680	2.3
5	Use of HYV (IPM 02-3); Timely plant protection measures (Spraying of prophenophos @1 litre/ha against foliage beetles during vegetative stage, immidacloprid @ 500ml/ha against aphids during vegetative stage and thiomethoxam @ 125g/ha against white fly (YMV) during maturity stage)	18950	20609	1659	1.08	22500	42332	19832	1.88

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/ household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/ house hold)
1	Groundnut (Devi)	42412	450	42.50	6340	13548	Social function Child education House expenses	127
2	Sesame (Amrit)	15213	133	52.00	3340	5489	Social function Child education House expenses	72
3	Blackgram (OBG 17)	14903	183	50.00	2833	4560	Social function, Education of children	52
4	Pigeonpea (PRG 176 Ujwala)	14400	577.3	54.50	450	1250	Social function, Education of children, Purchase of household assets	95
5	Greengram (IPM 02-3)	16120	250	55.70	350	4320	Social function; Education of children; Repairing of house; Purchase of household assets	42

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/ village	Suggestions, for change/ improvement, if any
1	Use of HYV Devi); Seed treatment with carboxin + thiram. Application of herbicide (pendimethalin) and Micronutrient (Zn EDTA)	Suitable	Very good	75%	No	Yes	Timely availability of seed
2	Use of HYV (Amrit); Seed treatment with carboxin + thiram; Application of herbicide (imazethapyr); Application of micronutrient (Zn EDTA); Plant protection measures (Application of prophenophos + cypermethrin against leaf webber and capsule borer, Application of Carbendazim + Mancozeb against Damping disease	Suitable	Very good	65%	No	Yes	Timely availability of seed
3	Use of HYV (OBG 17); Seed treatment (carboxin + thiram @3 g/kg of seed before sowing); Application of bifertilizer (Rhizobium) and PSB.	Suitable to the existing farming system	HYV (OBG 17) was preferred by the farmers and Plant protection measures	70%	No	The HYV, seed treatment, weed management & plant protection technology were accepted by all the beneficiaries in the group	Timely availability of seed
4	Use of HYV: (PRG 176 Ujwala); Seed treatment (carboxin + thiram @ 3g/kg of seed; Application of and bifertilizer (Rhizobium) and PSB.imazethapyr@1 litre/ha at 20 DAS). Plant protection measures (Application of prophenophos + cypermethrin@1 litre /ha against pod borer	Suitable to the existing farming system	HYV (PRG 176 Ujwala) was preferred by the farmers and effective control of weeds	75%	Pest attack and reduced pod setting	The HYV, seed treatment and weed management technology were accepted by all the beneficiaries in the group	Timely availability of seed and plant protection measures

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/ village	Suggestions, for change/ improvement, if any
5	Use of HYV (IPM 02-3: Timely plant protection measures (Spraying of prophenophos @1 litre/ha against foliage beetles during vegetative stage, immidacloprid @ 500ml/ha against aphids during vegetative stage and thiomethoxam @ 125g/ha against white fly (YMV) during maturity stage)	Suitable to the existing farming system	HYV (IPM 02-3) was preferred by the farmers and effective control of diseases & pests.	65%	Weed infestation during vegetative stage, leaf curl due to aphid attack and yellowing of leaves due to YMV.	The HYV and pest control technology were accepted by all the beneficiaries in the group	Timely availability of seed and plant protection measures

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
HYV Groundnut (ICGV 91114) released on 2008, Duration: 90-95 days, Potential yield:22-25q/ha; Tolerant of mid-season and end-of-season drought	The demonstration performed well with higher production and profit	Demonstrated technology of improved variety with seed treatment; proper plant protection measures resulted higher grain yield and profit as compared to local check under CFLD programme resulted.	Farmers were convinced with the technology and decided to cultivate the variety (Devi) in next season with same package of practices.
HYV Sesame (Amrit) released on 2006, Duration: 80-85 days, average yield 7.5-8.5q/ha, light brown seed, oil content 43-46 %, Lodging tolerant variety	The demonstration performed well with higher production and profit	Demonstrated technology of improved variety with seed treatment; weed management by herbicides and proper plant protection measures resulted higher grain yield and profit as compared to local check under CFLD programme resulted.	Farmers were convinced with the technology and decided to cultivate the variety (Amrit) in next season with same package of practices.

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
HYV Blackgram (OBG 17); released on 2008, Potential yield:12q /ha; Duration: 70 days, Resistant to YMV.and Moderately resistance to powdery mildew and cercospora leaf spot	The demonstration performed well with higher production and profit	Demonstrated technology of improved variety with seed treatment; weed management by herbicides and proper plant protection measures resulted higher grain yield and profit as compared to local check under CFLD programme resulted.	Farmers were convinced with the technology and decided to cultivate the variety (OBG 17) in next season with same package of practices.
HYV Pigeonpea variety (PRG 176 Ujwala) Medium duration: 170-200 days; Plant ht:140-227 cm; 50% flowering: 110-125 days; 75% flowering: 160-202 days; seeds brown, oval; 100 seed wt: 10.2-11.2 g; Potential yield:15-16q/ha; Resistant to f*usarium* wilt and sterility mosaic	Overall the demonstration performed well with effective weed control which recorded higher pod yield and profit	Demonstrated technology of improved variety with seed treatment; weed management practices resulted higher pod yield and profit as compared to local check	Farmers accepted the HYV (PRG 176 Ujwala) as produced higher no of pods and enhanced pod yield. They also convinced with the technology of controlling weeds. They decided to cultivate the variety (PRG 176 Ujwala)) in next season with same package of practices.
HYV Greengram (IPM 02-3); Potential yield:11q /ha; Duration: 62-68 days; Resistant to MYMV, large seed, suitable for kharif and spring	Overall the demonstration performed well with effective pest control which recorded higher pod yield and profit	Demonstrated technology of improved variety with seed treatment; weed control, proper plant protection measures resulted higher pod yield and profit as compared to local check	Farmers accepted the HYV (IPM 02-3) as it is matured earlier and produced higher no of pods and enhanced pod yield. They also convinced with the technology of controlling weeds, diseases and pests. They decided to cultivate the variety (IPM 02-14) in next season with same package of practices.

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmers attended
1	Field day	01.09.18 (Handiguda)	50
2	Field day	23.10.18 (Subarnapur)	80
3	Field day (Blackgram)	26.10.2018 (Sanjamura)	80
4	Field day (Pigeonpea)	05.02.2019 (Chakradharpur)	32
5	Training (Greengram)	11.01.19 (Sankhapur)	50
6	Field day (Greengram)	29.03.19 (Sankhapur)	65

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

		
Groundnut (vegetative stage)	Sesame (Matured stage)	Sesame (Harvest)
		
Pigeonpea	Pigeonpea (Flowering stage)	Pigeonpea (Vegetative stage)
		
Greengram (Vegetative stage)	Spraying of pesticides (Vegetative stage)	Greengram (Harvesting stage)

H. Farmers' training photographs

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

			
Field Day on Groundnut	Field Day on Blackgram	Field Day on Pigeonpea	Field day on Greengram

J. Details of budget utilization

Crop (Provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Groundnut (20 ha.)	i) Critical input	2,16,000	1,69,509	46,491
	ii) TA/DA/POL etc. for monitoring	8,000	0	8,000
	iii) Extension Activities (Field day)	6,000	6,000	0
	iv) Publication of literature	6,000	6,000	0
	v) Contingency	4,000	4,000	0
	Total	**2,40,000**	**1,85,509**	**54,491**
Sesamum (20 ha.)	i) Critical input	90,000	58,221	31.779
	ii) TA/DA/POL etc. for monitoring	2,000	0	2,000
	iii) Extension Activities (Field day)	4,000	4,000	0
	iv) Publication of literature	3,000	3,000	0
	v) Contingency	1,000	1,000	0
	Total	**1,00,000**	**66,221**	**33,779**
Black Gram (20ha.)	i) Critical input	1,62,000	54,960	1,07,040
	ii) TA/DA/POL etc. for monitoring	6,000	5,930	70
	iii) Extension Activities (Field day)	5,000	5,000	0
	iv) Publication of literature	5,000	5000	0
	v) Contingency (Audit fee Rs.1200)	2,000	2,000	0
	Total	**1,80,000**	**72,890**	**1,07,110**

Pigeonpea (10ha.)	i) Critical input	81,000	46,811	34,189
	ii) TA/DA/POL etc. for monitoring	3,000	3,000	0
	iii) Extension Activities (Field day)	2,500	2,500	0
	iv) Publication of literature	2,500	2,500	0
	v) Contingency	1,000	1,000	0
	Total	**90,000**	**55,811**	**34,189**
Greengram (20ha.)	i) Critical input	162000	87330	74670
	ii) TA/DA/POL etc. for monitoring	6000	6000	0
	iii) Extension Activities (Field day)	5000	5000	0
	iv) Publication of literature	5000	5000	0
	v) Contingency	2000	2000	0
	Total	**1,80,000**	**105,330**	**74,670**

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

A) Farmers and farm women (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
Training and Pruning													
b) Fruits													
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, if any (INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micronutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any Goat farming													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
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													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI. Agril. Engineering													
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, if any													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs 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													
Others, if any													
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, if any													
XI Agro-forestry													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	2	14	14	28		2	2				14	16	30
Bee-keeping													
Integrated farming	1	14		14	1		1				15		15
Seed production													
Production of organic inputs	1	9	6	15							9	6	15
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition	1	14		14	1		1				14	1	15
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Enterprise development													
Para vets													
Para extension workers	2	12	17	29		1	1				12	18	30
Composite fish culture	2	4	23	27	1	1	2		1	1	5	25	30
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology	1		12	12		1	1		2	2		15	15
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Tailoring and Stitching													
Rural Crafts													
TOTAL	**10**	**67**	**72**	**139**	**3**	**5**	**8**	**0**	**3**	**3**	**69**	**81**	**150**

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Value addition	1	9	5	14	1	0	1				10	5	15
Integrated Pest Management	1	7	7	14				1		1	8	7	15
Integrated Nutrient management	1	15		15							15		15
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers	2	14	12	26	2	1	3	1	-	1	17	13	30
Capacity building for ICT application													
Care and maintenance of farm machinery and implements	1		14	14		1	1					15	15
WTO and IPR issues													
Management in farm animals	1	1	14	15	-	-	-	-	-	-	1	14	15
Livestock feed and fodder production													
Household food security	1		13	13		2	2					15	15
Women and Childcare													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Production Management	1		15	15								15	15
TOTAL	**9**	**46**	**80**	**126**	**3**	**4**	**7**	**2**	**0**	**2**	**51**	**84**	**135**

D) Farmers and farm women (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies	1	19	6	25							19	6	25
Cropping Systems													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	1	8	12	20	2	3	5				10	15	25
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising	2	29	21	50							29	21	50
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	1	19	6	25							19	6	25
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit	1	15	9	24	1	0	1				16	9	25
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants	1	25	0	25							25	0	25
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Agroforestry	1	8	11	19	3	3	6				11	14	25
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology	1	13	11	24	1		1				14	11	25
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management	1	15	7	22		3	3				15	10	25
Production and management technology	1				6	19	25				6	19	25
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management	1	18	5	23	1	1	2				19	6	25
Production and use of organic inputs													
Management of Problematic soils													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Micronutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management	2	21	21	42	3	5	8				24	26	50
Poultry Management	3	42	15	57	1	17	18				43	32	75
Piggery Management													
Rabbit Management													
Disease Management	2	26	13	39	2	9	11				28	22	50
Feed management	3	52	22	74	1	-	1				53	22	75
Production of quality animal products													
Others, if any Goat farming													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	1		23	23		2	2					25	25
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques	1		25	25								25	25
Enterprise development													
Value addition	2		23	23		2	2					25	25
Income generation activities for empowerment of rural Women	3		17	17		8	8					25	25
Location specific drudgery reduction technologies	2		23	23		2	2					25	25
Rural Crafts													
Capacity building													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Women and childcare													
Others, if any													
VI.Agril. Engineering													
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, if any													
VII. Plant Protection													
Integrated Pest Management	6	83	67	150							83	67	150
Integrated Disease Management	2	17	4	21	11	18	29				28	22	50
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides	1	16	9	25							16	9	25
Others, if any													
VIII. Fisheries													
Integrated fish farming	1	7	16	23	1	1	2				8	17	25
Carp breeding and hatchery management	1	24	1	25							24	1	25
Carp fry and fingerling rearing	1	9	15	24	1		1				10	15	25
Composite fish culture & fish disease	3	42	28	70		5	5				42	33	75
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn	1	18	7	25							18	7	25
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery	1	20		20		1	1	2	2	4	22	3	25
Pen culture of fish and prawn													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
Fish pond preparation & its management	1	5	18	23		2	2				5	20	25
Water management practices for enhancement of fish yield	1	18		18	4		4	3		3	25		25
Use of stunted yearlings for enhancement of pond productivity	1	17	2	19	3		3	3		3	23	2	25
IX. Production of Inputs 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													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Entrepreneurial development of farmers/youths	2	24	15	39		9	9		2	2	24	26	50
WTO and IPR issues													
Others, if any	1	25		25							25		25
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	**54**	**635**	**452**	**1087**	**41**	**110**	**151**	**8**	**4**	**12**	**684**	**566**	**1250**

E) RURAL YOUTH (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any													
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

F) Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals	1	10	2	12	3		3				13	2	15
Livestock feed and fodder production													
Household food security													
Women and Childcare													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
TOTAL	**1**	**10**	**2**	**12**	**3**		**3**				**13**	**2**	**15**

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies	1	19	6	25							19	6	25
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
TOTAL													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	1	8	12	20	2	3	5				10	15	25
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising	2	29	21	50							29	21	50
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	1	19	6	25							19	6	25
TOTAL	**4**	**56**	**39**	**95**	**2**	**3**	**5**	**0**	**0**	**0**	**58**	**42**	**100**
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Cultivation of Fruit	1	15	9	24	1	0	1				16	9	25
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
TOTAL	**1**	**15**	**9**	**24**	**1**	**0**	**1**				**16**	**9**	**25**
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants	1	25	0	25							25	0	25
Others, if any													
TOTAL	**1**	**25**	**0**	**25**							**25**	**0**	**25**
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Agroforestry	1	8	11	19	3	3	6				11	14	25
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology	1	13	11	24	1		1				14	11	25
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management	1	15	7	22		3	3				15	10	25

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production and management technology	1				6	19	25				6	19	25
Post harvest technology and value addition													
Others, if any													
TOTAL	**1**				**6**	**19**	**25**				**6**	**19**	**25**
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management	1	18	5	23	1	1	2				19	6	25
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL													
IV. Livestock Production and Management													
Dairy Management	2	21	21	42	3	5	8				24	26	50
Poultry Management	3	42	15	57	1	17	18				43	32	75
Piggery Management													
Rabbit Management													
Disease Management	2	26	13	39	2	9	11				28	22	50
Feed management	3	52	22	74	1		1				53	22	75
Production of quality animal products													
Others, if any (Goat farming)													
TOTAL	**10**	**141**	**71**	**212**	**7**	**31**	**38**	**0**	**0**	**0**	**148**	**102**	**250**
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	1		23	23		2	2					25	25
Design and development of low/minimum cost diet													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques	1		25	25								25	25
Enterprise development													
Value addition	2		23	23		2	2					25	25
Income generation activities for empowerment of rural Women	3		17	17		8	8					25	25
Location specific drudgery reduction technologies	2		23	23		2	2					25	25
Rural Crafts													
Capacity building													
Women and childcare													
Others, if any													
TOTAL	**9**		**211**	**211**	**0**	**14**	**14**	**0**	**0**	**0**	**0**	**225**	**225**
VI. Agril. Engineering													
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, if any													
TOTAL													
VII. Plant Protection													
Integrated Pest Management	6	83	67	150							83	67	150
Integrated Disease Management	2	17	4	21	11	18	29				28	22	50
Bio-control of pests and diseases													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production of bio control agents and bio pesticides	1	16	9	25							16	9	25
Others, if any													
TOTAL	**9**	**116**	**80**	**196**	**11**	**18**	**29**	**0**	**0**	**0**	**127**	**98**	**225**
VIII. Fisheries													
Integrated fish farming	1	7	16	23	1	1	2				8	17	25
Carp breeding and hatchery management	1	24	1	25							24	1	25
Carp fry and fingerling rearing	1	9	15	24	1		1				10	15	25
Composite fish culture & fish disease	3	42	28	70		5	5				42	33	75
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn	1	18	7	25							18	7	25
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery	1	20		20		1	1	2	2	4	22	3	25
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
Fish pond preparation & its management	1	5	18	23		2	2				5	20	25
Water management practices for enhancement of fish yield	1	18		18	4		4	3		3	25		25
Use of stunted yearlings for enhancement of pond productivity	1	17	2	19	3		3	3		3	23	2	25
TOTAL	**11**	**160**	**87**	**247**	**9**	**9**	**18**	**8**	**2**	**10**	**177**	**98**	**275**
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
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													
Others, if any													
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	2	24	15	39		9	9		2	2	24	26	50
WTO and IPR issues													
Others, if any (ICT)	1	25		25							25		25
TOTAL	**3**	**49**	**15**	**64**	**0**	**9**	**9**	**0**	**2**	**2**	**49**	**26**	**75**
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. specify)													
TOTAL	**54**	**635**	**452**	**1087**	**41**	**110**	**151**	**8**	**4**	**12**	**684**	**566**	**1250**

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	2	14	14	28		2	2				14	16	30
Bee-keeping													
Integrated farming	1	14		14	1		1				15		15
Seed production													
Production of organic inputs	1	9	6	15							9	6	15
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition	1	14		14	1		1				14	1	15
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers	2	12	17	29		1	1				12	18	30
Composite fish culture	2	4	23	27	1	1	2		1	1	5	25	30
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology	1		12	12		1	1		2	2		15	15
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)													
TOTAL	**10**	**67**	**72**	**139**	**3**	**5**	**8**	**0**	**3**	**3**	**69**	**81**	**150**

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management	1	7	7	14				1		1	8	7	15
Integrated Nutrient management	1	15		15							15		15
Rejuvenation of old orchards													
Value addition	1	9	5	14	1	0	1				10	5	15
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers	2	14	12	26	2	1	3	1		1	17	13	30
Capacity building for ICT application													
Care and maintenance of farm machinery and implements	1		14	14		1	1					15	15
WTO and IPR issues													
Management in farm animals	2	11	16	27	3		3				14	16	30
Livestock feed and fodder production													
Household food security	1		13	13		2	2					15	15
Women and Childcare													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
Production Management	1		15	15								15	15
TOTAL	**10**	**56**	**82**	**138**	**6**	**4**	**10**	**2**	**0**	**2**	**64**	**86**	**150**

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agronomy	F/FW	Contingent crop planning for different type of drought situation	1	Off	19	6	25			
Agronomy	F/FW	Integrated nutrient management in rainfed upland rice	1	Off	19	6	25	1	1	2
Horticulture	F/FW	Nursery raising technique under low cost poly house	1	Off	19	6	25			
Horticulture	F/FW	Improved package and practices in papaya cultivation	1	Off	16	9	25	1	0	1
Horticulture	F/FW	Production technology of Kharif Onion	1	Off	19	6	25			
Horticulture	F/FW	Integrated nutrient management in brinjal	1	Off	10	15	25	2	3	5
Horticulture	F/FW	Improved package of practices of aromatic plants	1	Off	6	19	25	6	19	25
Horticulture	F/FW	Nursery raising techniques in rabi tomato	1	Off	10	15	25			
Horticulture	F/FW	Propagation techniques in ornamental plants	1	Off	25	0	25			
Horticulture	IS	Post harvest technology and value addition in fruit crops	1	On	10	5	15	1	0	1
Home Sc.	F/FW	Nutritional gardening for rural farm women	1	Off		25	25		2	2
Home Sc.	F/FW	Drying of Oyster Mushroom	1	Off		25	25		2	2
Home Sc.	F/FW	Storage techniques of fruits and vegetables	1	Off		25	25			
Home Sc.	F/FW	Storage loss minimization techniques	1	Off		25	25		1	1
Home Sc.	F/FW	Value added products from Tomato	1	Off		25	25			
Home Sc.	F/FW	Drudgery reduction by using hanging type grain cleaner	1	Off		25	25		2	2
Home Sc.	F/FW	Preparation of value added products from sweet potato	1	Off		25	25		3	3
Home Sc.	F/FW	Use of weeding implements in vegetable crops	1	Off		25	25		2	2
Home Sc.	F/FW	Preparation of mango leather in solar dryer	1	Off		25	25		2	2
Home Sc.	RY	Paddy straw mushroom cultivation in compost method	2	On		15	15		2	2

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Home Sc.	RY	Oyster mushroom cultivation by different substrate	2	On	14	1	15	14	1	15
Home Sc.	IS	Drudgery reduction of farm women through women friendly implements	1	On		15	15		2	2
Home Sc.	IS	Assessment of nutritional security of farm families	1	On		15	15			
Forestry	F/FW	Preparation & management of hortisilvi agro forestry model	1	Off	14	11	25	1		1
Forestry	F/FW	Agro forestry practices for soil conservation	1	Off	11	14	25	3	3	6
Forestry	F/FW	Management of aromatic plants in the nursery	1	Off	15	10	25		3	3
Animal Sc.	F/FW	Backyard poultry farming	1	Off	6	19	25		17	17
Animal Sc.	F/FW	Diversified poultry farming	1	Off	24	1	25	1		1
Animal Sc.	F/FW	Important diseases of cattle and its prevention	1	Off	12	13	25			
Animal Sc.	F/FW	Important diseases of poultry and their prevention	1	Off	16	9	25	2	9	11
Animal Sc.	F/FW	Feeding and health management in goats	1	Off	15	10	25	1		1
Animal Sc.	F/FW	Biosecurity measures for better poultry production	1	Off	7	18	25			
Animal Sc.	F/FW	Alternate use of cow dung and urine for organic farming	1	Off	11	14	25			
Animal Sc.	F/FW	New trends of feeding in dairy animals	1	Off	13	12	25			
Animal Sc.	F/FW	Feeding of processed crop residues for better utilization by dairy animal	1	Off	25		25			
Animal Sc.		Care and management of newborn calves	1	Off	13	12	25	3	5	8
Animal Sc.	RY	Value addition in milk	2	On	15	-	15	1		1
Animal Sc.	IS	Bird flu, its control and prevention methods	1	Off	13	2	15	3		3
Animal Sc.	IS	Management of metabolic disorders in dairy cattle	1	On	1	14	15			

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Ag. Extension	RY	Formation and strengthening of Farmer Producer Companies (Phase-1)	2	On	10	5	15			
Ag. Extension	RY	New media for agriculture extension	2	On	2	13	15		1	1
Ag. Extension	IS	Extension strategies for promotion of climate smart livelihood opportunities	1	On	9	6	15	1	1	2
Ag. Extension	IS	Linking farmer to market- Opportunities & challenges	1	On	8	7	15	2		2
Ag. Extension	F/FW	ICT in farmer service center for post harvest technology	1	Off	25		25			
Ag. Extension	F/FW	Strengthening the agri input eco system at grass root level	1	Off	21	4	25			
Ag. Extension	F/FW	Monitoring agri innovation and market excess for agri start ups	1	Off	3	22	25		11	11
Fishery	F/FW	Integrated fish farming	1	Off	8	17	25	1	1	2
Fishery	F/FW	Carp breeding and hatchery management	1	Off	24	1	25			
Fishery	F/FW	Carp fry and fingerling rearing	1	Off	10	15	25	1		1
Fishery	F/FW	Species selection & management of stocking density in composite Carp culture system	1	Off	2	23	25		1	1
Fishery	F/FW	Hatchery Management & culture of F.W, Prawn	1	Off	18	7	25			
Fishery	F/FW	Fish pond preparation and its management	1	Off	5	20	25		2	2
Fishery	F/FW	Water management practices for enhancement of fish yield	1	Off	25		25	7		7
Fishery	F/FW	Use of stunted yearlings for enhancement of pond productivity	1	Off	23	2	25	6		6
Fishery	F/FW	Jayanti rohu culture method with IMC	1	Off	23	2	25			
Fishery	F/FW	Fish disease diagnosis & Management	1	Off	18	7	25		4	4
Fishery	F/FW	Quality carp seed production through the use of FPR, carp hatchery	1	Off	22	3	25	2	3	5

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Fishery	RY	Culture Techniques of medium carps with IMC	2	On	4	9	13	1	1	2
Fishery	RY	Culture techniques of Pangasius sutchi with IMC	2	On		15	15		1	1
Fishery	RY	Preparation of value added fishery products & their marketing	2	On		15	15		3	3
Fishery	IS	Innovative Aquaculture Practices	1	On		15	15			

H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Enterprise	Value addition	Women empowerment through processing and value addition of fruits and vegetables	4		10	10	Small scale	3	7	
Enterprise	Feed Management	Low cost fish feed preparation methods & its use	5		10	10	Mash feed & pellet feed preparation & sale through Aquashop	4	4	4

*Training title should specify the major technology /skill transferred

I) Sponsored Training Programmes

Sl. No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants									Sponsoring Agency
					PF/ RY/ EF		Male			Female			Total			
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1	Water management	Water use efficiency	2018-19	1	PF	24	233	17	3	345	2		578	19	3	600	ATMA

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

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	9	255	103	358	1.37	14	6	20	269	109	378
KisanMela	3	346	144	490	1.5	34	16	50	380	160	540
Kisan Ghosthi	2	45	20	65	0.7	2	3	5	47	23	70
Exhibition	4	1862	264	2126	10	22	6	28	1884	270	2154
Film Show	12	300	100	400	1.6	2	4	6	302	104	406
Method Demonstrations	12	116	64	180	2.4	2	2	4	118	66	184
Farmers Seminar											
Workshop											
Group meetings	18	288	124	412	0.8	1	1	2	289	125	414
Lectures delivered as resource persons	15	384	89	473	3.5	22	5	27	406	94	500
Advisory Services	54										Mass
Scientific visit to farmers field	163	2409	456	2865	5.6	2	5	7	2411	461	2872
Farmers visit to KVK	1	1892	39	1931	1.8				1892	39	1931
Diagnostic visits	12	237	56	293	0.6	2	5	7	239	61	300
Exposure visits	7	72	13	85	0.3	1	4	5	73	17	90
Ex-trainees Sammelan	1	23	5	28		2	5	7	25	10	35
Soil health Camp											
Animal Health Camp	1	36	10	46	0.1	2	2	4	38	12	50
Agri mobile clinic											
Soil test campaigns											
Farm Science Club Conveners meet	10	232	61	293	5.6	4	3	7	236	64	300
Self Help Group Conveners meetings	1		22	22	3		3	3		25	25
Mahila Mandals Conveners meetings											
Celebration of important days (Agril. Edn. Day, Jai Kisan Jai Vigyan, Mahila Kisan Divas, Women in Agril. Day, World Food Day, World Meteorological Day, World Soil Day, National Fish Farmers Day)	7	717	249	966	7.5	18	10	28	735	259	994
Sankalp Se Siddhi											
Swatchta Hi Sewa	4	32	24	56	0.5				32	24	56
Mahila Kisan Divas	1		29	29	0.5		1	1	0	30	30
Total	**337**	**9246**	**1872**	**11118**		**130**	**81**	**211**	**9376**	**1953**	**11329**

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	12
Radio talks	4
TV talks	6
Popular articles	7
Extension Literature	8
Research Paper	7

3.5 a. Production and supply of Technological products

Village seed

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

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Paddy	MTU 1001	23.4	60,770				OSSC
Mushroom Spawn	*V.volvacea, P.sajarcaju, H.ulmarius*	2,590 bottles	36,252			26	26
Mushroom	*V.volvacea, P.sajarcaju, H.ulmarius*	1.93	15,225	2	1	137	140
Grand Total		**23.4**					

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
Vegetable seedlings							
Cauliflower	Marble, Snowball	250	80,481			8	8
Cabbage	Harekrishna	380		1		12	13
Tomato	Bhagya, Arka Rakshak	12,724		24	3	312	339
Brinjal	JK 8031, Tarini	1,964		4		64	68
Chilli	Daiya, Kaaliraj	1,200		1	1	284	286
Onion	Bhima Dark Red	2,46,000		6	2	374	382
Brocoli	Known-You (F1 hybrid)	534		1		61	62
Marigold	Seracole	620		2	5	59	66
Others							
Fruits							
Mango							

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
Guava							
Lime							
Papaya	Red lady	1,061		7	2	184	193
Drumstick	Multiplex Dwarf	10				7	7
Banana							
Others							
Ornamental plants							
Medicinal and Aromatic							
Plantation							
Spices							
Turmeric							
Tuber							
Elephant yams							
Fodder crop saplings							
Forest Species							
Others, pl. specify							
Total		**2,64,743**	**80,481**	**46**	**13**	**1,365**	**1,424**

Production of Bio-Products

Name of product	Quantity (Kg)	Value (Rs.)	No. of Farmers benefitted			
			SC	ST	Other	Total
Bio-fertilizers (Vermicompost)	1,525	15,250			32	32
Bio-pesticide						
Bio-fungicide						
Bio-agents (Honey)	8.12	3,195			12	12
Others, please specify (Azolla)	10					
Total	**1,543.12**	**18,445**			**44**	**44**

Production of livestock materials

Particulars of Livestock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
Dairy animals							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							
Small ruminants							
Sheep							
Goat	Black Bengal	3	4,000			3	3
Other, please specify							
Poultry							
Broilers							

Particulars of Livestock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
Layers							
Duals (broiler and layer)	Pallishree, Kadaknath, Aseel	1,093	65,383	6	2	106	114
Japanese Quail							
Turkey							
Emu							
Ducks							
Others (Pl. specify)							
Piggery							
Piglet							
Hog							
Others (Pl. specify)							
Fisheries							
Indian carp							
Exotic carp							
Mixed carp							
Fish fingerlings	Catla, Jayanti rohu, Mrigal, Puntius sarana, Amur Carp	73,950	73,760			23	23
Spawn							
Others (Pl. specify)							
Grand Total		**75,046**	**1,43,143**	**6**	**2**	**132**	**140**

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

i) Name of Seed Hub Centre: Satellite center of Pulse Seed Hub (KVK, Deogarh)

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

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2018						
Rabi 2018-19	Greengram	IPM 02-3	50 ha	50 ha	210	F/S
Summer/ Spring 2019						

iii) Financial Progress

Fund received (2016-17, 2017-18 and 2018-19)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2016-17				
2017-18				
2018-19				

iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

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

Item	Title	Author's name	Number	Circulation
Research paper	Validation of Two Commercially Available Ki67 Antibodies for Immunohistochemical Analysis of Canine Tissues.	Behera, M., Panda, S. K., Jain, S., Behera, S. S., Dash P. and Senapati, S.		
Research paper	Practical Approaches for Diagnosis and Treatment of Coccidiosis in a Poultry Flock.	Behera, M., Satpathy, B., Acharya, S. and Behera S. S		
Research paper	Ocular dermoid in a dog and its surgical correction.	Sidhartha Sankar Behera, Biswadeep Jena, Indramani Nath, Monalisa Behera and Susen Kumar Panda.		
Research paper	Sustainable technological interventions in soil conservation measures for rural livelihood management. *Journal of Crop & Weed*, 14(3): 174-177 (2018)	Bineeta Satpathy		
Seminar/ conference/ symposia papers				
Books				
Bulletins				
Newsletter				
Popular Articles	Kukuda manakara coccidiosis roga ebam tahara nirakarana byabasta. (Coccidiosis in poultry and its control) Chasira Sansar	Dr. Monalisa Behera and Dr. Bineeta Satpathy		
Popular Articles	Pusty-hinata durikaran pai pakasala bagicha ra abasyakata (Utility of nutritional garden for irradiation of malnourishment) Krushi Jagaran,	Dr. Sumita Acharya, Dr. Bineeta Satpathy and Dr. Monalisa Behera		
Popular Articles	Training manual for small poultry farmer. 2018	Dr. Monalisa Behera and Dr. Bineeta Satpathy		
Book Chapter				

Item	Title	Author's name	Number	Circulation
Extension Pamphlets/ literature				
Technical reports				
Electronic Publication (CD/DVD etc)				
TOTAL				

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	State level orientation training	KALIA scheme	Dr. Bineeta Satpathy, SSH	14.2.2019	State Govt.
2.	State level workshop	Climate Conference	Dr. Bineeta Satpathy, SSH	14.11.2018-16.11.18	State Govt.
3.	National training	Innovation strategies and management for success of agri business	Dr. Bineeta Satpathy, SSH	27.6.2018-29.6.2018	MANAGE, Hyderabad
4.	Orientation training	Operational modalities of KVK	Dr. Bineeta Satpathy, SSH	9.7.2018-11.7.2018	OUAT
5.	Orientation training	Preparation & dissemination of agromet advisories at block level under GKMS scheme	Dr. Bineeta Satpathy, SSH	9.8.2018-10.8.2018	ATARI
6.	TOT programme of ASCI skill development training on small poultry farmer	Small poultry farmer	Dr. Monalisa Behera, Scientist (Animal Sc.)	18.9.18-20.9.18	ATARI
7.	TOT programme of ASCI skill development training on small poultry farmer	Vermicompost producer	Ipsita Mishra, Scientist (PP)	18.9.18-20.9.18	ATARI
8.	National symposium	New dimension on Plant Protection – A step towards food and nutritional security and environmental safety	Ipsita Mishra, Scientist (PP)	27.10.2018-28.10.2018	OUAT, BBSR

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
9.	Orientation training	IPM in important field and horticultural crops of West Bengal, Odisha and Andaman & Nicober	Ipsita Mishra, Scientist (PP)	13.12.2018-15.12.2018	ICAR-ATARI, Kolkata
10.	Indian Horticulture Congress	8th Indian Horticulture Congress 2019	Shriram Ratan Pradhan, Scientist (Horticulture)	17.1.2019-21.1.2019	HSI and IGKV, Raipur
11.	Inception workshop	GAINS Phase II project 2018-2021	Shriram Ratan Pradhan, Scientist (Horticulture)	24.1.2019	CIP, Peru
12.	District level seminar	Improved cashew production technology	Shriram Ratan Pradhan, Scientist (Horticulture)	8.2.2019	Govt. of Odisha
13.	Regional workshop	Protection of plant variety and farmers' rights	Shriram Ratan Pradhan, Scientist (Horticulture)	15.3.2019	PPVFR and WBUAFS
14.	Orientation training programme	Operational modalities for KVKs for newly recruited scientists in KVKs	Shriram Ratan Pradhan, Scientist (Horticulture)	25.3.2019 to 27.3.2019	Directorate of Extension, OUAT

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. Krutibash Pradhan**
Address	**Village: Talagarh, Block: Angul, Dist: Angul**
Contact details (Phone, mobile, email Id)	M- 6370948779
Landholding & water area (ha.)	3.8 ha & 0.4
Name and description of the farm/ enterprise	Inclusion of Improved varieties of fish species in Polyculture, Scientific fish rearing, Stocking of Jayanti rohu in place of Normal rohu, use of yearlings instead of fingerlings, feeding management, regular liming and manuring, use of lime and CIFAX for disease management and other pre and post-stocking management measures
Economic impact	Mr. Sahu earns a net annual income of about Rs. 4.24 lakh through his praiseworthy Diversified Pisciculture practices as compared to that of Rs.70,000/- three years ago. His adoptable practices would be a role model for other small farmers near by the village & across the Angul District also.
Social impact	He became a well known farmer of his village and he is figured as great source of inspiration for fellow farmers.

Environmental impact	This type of practice is the most ecologically sound fish culture practice which facilitates efficient utilization of all ecological zones within the Pond Environment enhancing the maximum standing crop and the empowerment for rural youths, Women SHG Groups which in turn will enhance food and nutritional security.
Horizontal/ Vertical spread	The successful farming by Mr. Pradhan has already drawn the attention of many farmers within and outside the district & spread to 07 ha. area of nearby village.



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

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology
1.	**Herbal Extracts for Coccidiosis Management**	Sri Lalmohan Singh, Village- Purikia, Block-Banarpal, District-Angul, Pin-759128, Mob. No.-918018471734	❖ Uses tender *Moringa oleifera* leaf extract for prevention of coccidiosis. Leaf extracts are used @ 2ml in 1.5 ml of water. The extracts were supplemented to the birds during 13th to 15thday. ❖ Uses Muchukunda flower (*Pterospermumacerifolium*) paste for treatment of coccidiosis @ 150 gm/1000 birds ❖ As a result, the cost of cultivation is lowered through reduction of morbidity and mortality % due to coccidiosis and he is getting a net profit of Rs.2,52,000/- per annum from poultry farm. On an average a total of 25% increase in income was added to the net income due to this management protocol.

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

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

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1	Brinjal, maize, greengram, guava, turmeric, papaya	2.0 acre	20 q	Tumuni (5)	Y
2	Cauliflower, maize	2.5 acre	300 q	Handiguda (15)	Y

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

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
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 protein estimation system	1
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			
105	50	155	393	18	0

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1	Group Meeting, Exhibition, awareness	240	1	Chairman, Zilla Parishad	100	100

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

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

3.13. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/ livestock technology
Demonstration on jevamrut preparation	1	25	
Method demonstration on value added fish products	1	10	Pisciculture
Student-scientist interaction	1	100	
Method demonstration on oyster mushroom cultivation	1	25	
Seminar on soil health management	1	300	
Animal health camp	1	50	

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

No of student trained	No of days stayed
16	15

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
18.04.2018	Vice Chancellor	To attend State level Akshaya Tritiya Programme
17.07.2018	Project Director, DRDA	To attend the R-E linkage meeting
05.12.2018	Collector & District Magistrate	To attend World Soil Day
05.12.2018	Chairman, Zilla Parishad	To attend World Soil Day
12.12.2018	Collector & District Magistrate	KVK farm visit
12.12.2018	Project Director, DRDA	KVK farm visit

4. IMPACT

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

Name of specific technology/ skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Demonstration on backyard poultry Pallishree	10	13%	2735	6788
Use of Multiple stocking and multiple harvesting method by Stocking of Catla: Rohu: Mrigal @ 5000/ha at 30:40:30 basis.	15	27	75000	300000
Uniform spreading of Probiotics by mixing with feed i.e. Washorich @ 15 gm/kg feed twice daily upto harvest	13	31	64000	112000
Stocking density @ 5000 fingerlings / ha.	15	21	82000	245000
Use of sinking crumbled feed @ 5 % of total biomass	12	23	71000	238000
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	07	77000	187000
Culture of livebearers @ 130 numbers of live bearers (one species/ variety) stocked with a male and female ratio of 1:3	20	18	-	4055/ 300 sq.ft

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 harvest at every 3-4 months interval by giving feed (GNOC + Ricebran) at 1:1 ratio for total 10 months culture period	48 no./ 36.9 ha.
Use of Jayanti rohu for composite Pisciculture at the ratio of 30:40:30 (Catla, Jayanti rohu & Mrigal)	42 no./36.5 ha.
Stocking of IMC @5000 no./ha. and Fresh water Prawn @7500 no. / ha.	56 no./ 21.16 ha.
CIFAX @ 400 ml / ac. mixed with 200 ltr. water applied at the onset of disease / before disease occurrence.	44 no./ 28.2 ha.
Use of floating feed (2 mm) @ 8 % of the body weight of fingerlings of 100 gm and sinking feed @ 6-5 % of the body weight	55 no./25 ha.
Culture of livebearers @ 130 numbers of live bearers (one species/ variety) stocked with a male and female ratio of 1:3	12 no./3600 sq.ft.area

Give information in the same format as in case studies

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

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
1	**TO_1**: Amur Carp fingerlings @ 1000 no./ha with (C30:R40:M20: A.C 10) and culture for 5-6 months at a stocking density of 10,000 nos/ha **TO_2**: Amur Carp fingerlings @ 1500 no./ha with (C30:R40:M15: A.C 15) @ 10,000 no. /ha and culture for 5-6 months	About 25 no. of farmers nearby the village interested in this type of practice and spread to 15 ha.	Increases yield by 63 % over Traditional practice & income by 1,45,000/-
2	Single Stocking @ 6,500 fingerlings / ha & harvesting at every 3-4 months interval with seed substitution and adopting semi-intensive culture practice.	About 63 no. of farmers appreciated this type of practice and spread to 48 ha.	Increases yield by 125 % over Traditional practice & income by 2,50,000/-
3	Stocking of 1,00,000 Jayanti rohu fry, feeding @ 8 % of biomass (1st month) & 6% (rest 2 months), liming @80-100 kg/ac.	About 46 no. of farmers adopt this technique and spread to 22 ha.	Increases yield by 41 % over Traditional practice & income by 1,10,000/-
4	Incorporation of *Puntius sarana* @ 10 % or 1000 no./ha in the Major Carp system i.e. (C:R:M) @ 10000 no. /ha and culture for 5-6 months	About 18 no. of farmers awared and spread to 7 ha.	Increases yield by 63 % over Traditional practice & income by 1,45,000/-

4.4. Details of innovations recorded by the KVK

Innovation 1

Thematic area	**Poultry management**
Name of the Innovation	Innovative night shelter for Rural backyard poultry
Details of Innovator	Sri Bholeswar Sahu, Village: Handigoda, Block: Chhendipada, District: Angul, PIN: 759124, Mob. No. 9938208483
Background of innovation	Sri Sahu is a rural farmer of village Handigoda practicing backyard poultry farming with a flock size of 100 birds. In order to avoid the losses incurred by mortality of chicks during the early brooding period due to attack by predators he thought for preparation of this low-cost shelter. At present, he earns a net profit of Rs.2,47,000/- per annum from this backyard poultry farming.
Technology details	Low cost Night shelter for backyard poultry • He is using unused oil drum for shelter of birds during night. Each drum can accommodate 15 chicks including one grower bird. Height of drum- 3.5 ft • One square size opening (1 sq ft) has been made in the anterior end of drum which acts as entry point and on the opposite side there was 5-7 small holes for cross ventilation. • Floor of drum is filled with sand up to 3 inches to absorb droppings. • This drum is placed in between branches of large sized trees which is connected with the ground through a movable ladder made up of bamboo and gunny bags through which the birds approach to the night shelter on the tree. The cost of this shelter is around Rs.350/- for 15 birds whereas the conventional type shelter for backyard poultry costs around Rs.2500/-.
Practical utility of innovation	This shelter protects the grower birds and newly hatched chicks from adverse weather condition and predators

Innovation 2

Thematic area	**Feed Management**
Name of the Innovation	Indigenous Feed Management Technology for increasing Carp growth & seed survivability
Details of Innovator	Name: Mr. Pradeep Kumar Singh Address of correspondence: Village: Budhapanka, Block: Banarpal, Pin:759132, Dist: Angul Mobile No.:9938333002 Education: Graduation Size of Water area: 3.5 ha., land holding: 1 ha. Enterprises initiated: 2013
Background of innovation	Initial idea from the KVK Scientists and subsidies from District Fishery Office, Angul inspire and motivate him to prepare Indigenous feed mixture for reducing his feed cost as well as for increasing fish survivability & yield.
Technology details	• Use of Mustard oil cake paste @ 135 kg/ha 24 hour prior to spawn stocking for increasing Zooplankton (i.e. Rotifer) quantity in the pond. After one day of stocking the spawn, mustard oil cake was given @ 60 kg/ha/day up to 15 days and thereafter @ 120 kg/ha/day for better health and survival of carp seed. • Use of Cooked Mixture of locally available broken rice and mustard oil cake with broken pulses & mineral mixture for feeding of the Brood fish. • Use of chopped Green leaves and tender stems of banana for feeding of Grass carp. It also maintains suitable water pH and helpful in preventing fish suffocation during oxygen depletion. • Use of immature smaller unmarketable raw Papaya fruits by cutting it into pieces and thrown into pond which is generally consumed by the Grass carps. Along with raw papaya fruits, papaya latex also enters into pond water which acts as antibacterial and antifungal agent and thereby prevents disease outbreak in fish.
Practical utility of innovation	Before KVK Intervention he got profit of around 90,000. But today he is earning total Rs. 5,40,400 by adopting these Innovation practices, increasing fish yield by 32%, reducing his feed cost by 62 %, increasing seed survivability to 78%.



4.5. Details of entrepreneurship development

Entrepreneurship development 1	
Name of the enterprise	**Multiple stocking & harvesting technology for Stunted Yearling culture**
Name & complete address of the entrepreneur	Sri Shanu Sahu, Village: Kosala, Chakradharpur, Block: Chhendipada, Dist: Angul
Role of KVK with quantitative data support:	Frontline Demonstrations • FLD on introduction of multiple stocking and harvesting method for maximization of fish

	production by using stunted yearlings (Var: IMC i.e. Catla, Jayanti Rohu & Mrigal) • FLD on inclusion of Jayanti rohu, *Pangasius sutchi*, F.W Prawn (*M. malcolmsonii*) in Composite fish culture Technique • FLD on use of low cost fish feed by utilizing locally available feed Ingredients • Supply of quality fish seed from KVK. <u>Vocational Trainings</u> • Techniques of Stunted yearling production • Supplementary fish diet preparation from locally available low cost materials • Pond and feed management in composite fish culture • Value addition in Freshwater fishes • Tools and Techniques of organization of rural youth clubs
Timeline of the entrepreneurship development	2015-16 to 2018-19
Technical Components of the Enterprise	Stunted Yearling culture, Fish farming by using low cost fish feed (Tea leaves from nearby hotels + boiled Ripe & Insect attacked Brinjals other vegetables along with Paddy, Groundnut, Banana & Vegetables
Status of entrepreneur before and after the enterprise	Before KVK Intervention he got profit of around 80,500. But today he is earning total Rs. 4,40,000 (i.e. Rs. 2,22,000 per year from sale of fish, Rs. 90,000 from banana cultivation & Rs. 38,000 from vegetable area of 0.1 ha). Besides these he is also get profit of 32,500 per year from cultivation of Paddy in 0.4 ha. area along with Rs. 25,000 from Groundnut area of 0.2 ha.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Raw materials availability: Fish seed supplied from KVK, Feed from his own farm produced vegetable waste & Tea leave waste Labour availability: 3MD/day Consumer Preference: Live fish Marketing the product: At his Fish Farm & surplus production at Angul Fish Market Live fish (small size): Rs.150/kg & Live fish (Big size): Rs 180/kg, F. W. Prawn: Rs. 480/kg
Horizontal spread of enterprise	48 no./ 36.9 ha.
	
	

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Horticulture Dept. Angul	Convergence programme: Training on Canopy management in mango orchards for farmers of including KVK Module village, Verification of Nursery, Associated with NHB
Watershed, Angul	RAD programme, QPM for cashew improvement, Dairy Management, Linkage with Manager Sheep & Goat Breeding Farm Chiplima for Procurement of Black Bengal Buck, Procurement of IMC fingerlings
Agriculture Dept., Angul	Cluster Demonstration, ATMA(Water use Efficiency training Programmes), NMOOP training programme, BPH infested field visit with line dept. field functionaries (Charakani, Chakradharpur, Chauriapal & Kosala villages of Chhendipada, Kangula, Samakoi, Angarabandha villages of Angul, Aonlabereni, Rasunapal, Kanteikolia, Madhupur villages of Kishornagar, Anantapali, Kuteswara, Baragaon of Atthamalik Block), Field day of NMOOP, CSBD
Veterinary Dept., Angul	Small animal development programme, (Goatery) / Vaccination and Deworming, AI Scheme, Verification of Schemes along with bank linkage
Fishery Dept., Angul	Distribution of IMC fingerlings, Verification of Schemes
DSWO, Angul	In-service training programme for AWWs & Extension Functionaries on Supplementary diet for pregnant, Lactating Mother and children from location specific food. Calorie & Protein value estimated for additional SNP for severely underweight children in the district Method Demonstration on Oyster Mushroom cultivation to SHGs under Mission Shakti for income generation
CIFA, Bhubaneswar	Procurement of IMC spawn & fry
OUAT, Bhubaneswar	Procurement of Paddy seeds, Planting Materials, Tricho cards, Poultry, mushroom mother spawn
CHES, Bhubaneswar	QPM of fruits & Vegetables
OSSC, Bhubaneswar	Sale of foundation seed of paddy

5.2. List of special programmes undertaken during 2018-19 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.)
Training on water use efficiency	Capacity building of farming community for enhancement of production	April 2018-March 2019	ATMA	1,31,250
Head to Head trial	Varietal evaluation (Stress tolerant)	June 2018- Jan 2019	IRRI	15,000

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No	Name of demo Unit	Year of estt.	Area (Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/ breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Polyhouse	2011	27.87 sq.mt	F1	Vegetable seedling production	264743 nos.	30,381	80,481	Sold to Farmers and also utilized in FLD, OFT
2.	Mushroom spawn	2011	13.38 sq.mt	*V.volvaceae* OSM-11 *P.sajorcaju Hypsizygous ulmarius*	Paddy straw and oyster Spawn	2,860 bottles	25,280	36,252	
3.	Mushroom	2011	16 sq.mt	*V.volvaceae* OSM-11 *P.sajorcaju Hypsizygous ulmarius*	Paddy straw and oyster Mushroom	1.86 q	10,180	15,225	
4.	Pisciculture	2006-Ornamental unit, 2017-Nursery pond & Desi Magur Tank	96.15 sq.mt	IMC, Amur carp, *Puntius sarana*, Molly, Guppy, Platy, Swordtail & Goldfish	Fingerling/ fry/ ornamental	73,950 nos.	23,106	73,760	
5.	Vermi-compost	2011	16 sq.mt	*Eisenia foetida*	Vermi compost	15.25 q	2,780	15,250	
6.	Azolla	2012	1 cu.mt	*Azolla caroliniana*	Azolla	10 kg	-	-	
7.	Poultry	2013	13.93 sq.mt	Pallishree, Kadaknath, Aseel	Live Birds/ Chicks	1093 nos.	47,545	65,383	
8	Apiculture Unit	2010	59.4 sq.mt	*Apis cerana indica*	Honey	8.12 kg	-	3,195	
9	Goatery	2017	16 sq.mt	Black Bengal	Goat	3 nos.	230	4,000	
	Total						**1,39,502**	**2,93,546**	

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. (q)	Cost of inputs	Gross income	
Paddy	18.07.18	3.12.18	1.2	MTU 1001	C	23.4	53,675	60,770	

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

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	1,525	2,780	15,250	Sold to farmers
2	Azolla	10	-	-	
3	Honey	8.12	-	3,95	

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Poultry	Banaraja Pallishree, RIR	Live Birds/ Chicks	1,093 nos.	47,545	65,383	Sold to farmers and utilized in FLD
2.	Goat	Black Bengal		3 nos.	230	4,000	Sold to farmers
3.	IMC	Catla, Jayanti rohu, Mrigal, Puntius sarana, Amur Carp& Ornamental fishes	Fish fingerlings	73,950	23,106	73,760	Significant achievement is possible by production of fry & fingerlings from a small concrete nursery tank within 2-3 month

6.5. Utilization of hostel facilities

Accommodation available (No. of beds): 20

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
September,18	20	1 day	
October,18	30	2 days	
December,18	80	6 days	
January,19	20	24 days	
February,19	20	10 days	
March,19	60	21 days	
Total :	**230**	**64 days**	

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes

No. of staff quarters: 03

Date of completion: 2008

Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
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)*

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2019
	Kharif	Rabi	Kharif	Rabi	
Groundnut	2.40	-	1.85509	-	0.54491
Sesame	1.00	-	0.66221	-	0.33779

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2019
	Kharif	Rabi	Kharif	Rabi	
Blackgram	1.80	-	0.72960	-	1.07040
Pigeonpea	0.90	-	0.55811	-	0.34189
Greengram	-	1.80	-	1.05330	0.74760

7.4. Utilization of KVK funds during the year 2018-19 (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	81,00,000	81,00,000	To be provided by Comptroller, OUAT, BBSR
2	Traveling allowances	80,000	80,000	80,000
3	**Contingencies**			
A	Stationary, telephone, postage & other expenditure on office running	3,60,000	3,60,000	3,60,000
B	POL, repair of vehicle, tractor & equipment			
C	Vocational Training	2,70,000	2,70,000	2,70,000
D	Training Materials			
E	FLD except oilseed & pulses	1,80,000	1,80,000	1,80,000
F	On farm testing (OFT)	90,000	90,000	90,000
G	SCSP Contingency	2,00,000	2,00,000	2,00,000
H				
I				
J	Swachhta Expenditure	0	0	0
	TOTAL (A)	**92,80,000**	**92,80,000**	**11,80,000**
B. Non-Recurring Contingencies				
1	Repair &Maintenance of building	2,50,000	2,50,000	2,50,000
2				
	TOTAL (B)	**2,50,000**	**2,50,000**	**2,50,000**
C. REVOLVING FUND		0	0	0
	GRAND TOTAL (A+B+C)	**95,30,000**	**95,30,000**	**14,30,000**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2015-16	0.83	2.68	1.50	2.01
2016-17	2.01	1.91	1.56	0.00 (profit 3.92 refunded to DEE, OUAT, Bhubaneswar)
2017-18	2.00	3.73	2.10	3.63 (Rs.2.33 refunded to DEE, OUAT)
2018-19	2.05	3.71549	1.97944	3.76379 + Kind 0.61370

7.6. **(i) Number of SHGs formed by KVKs:** Promoted 54 SHGs

(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities

- Method Demonstration on Oyster Mushroom cultivation to SHGs under Mission Shakti for income generation
- In-service training programme for AWWs of DSWO & Extension Functionaries of JSPL on Supplementary diet for pregnant, Lactating Mother and children from location specific food.
- Calorie & Protein value estimated for additional SNP for severely underweight children in the district and training programme on "Food & Nutrition" organized by Govt. of India, District Administration supported by JSPL for awareness of AWWs & CDPOs

(iii) Details of marketing channels created for the SHGs

- SHG of Module village Talagarh linked for sale of RTS from stone apple in Jyotirmayee MPCS stall in district level Exhibition
- SHGs are linked with DRDA, FES- NGO for marketing of Mango and its value added products in Mango Hub

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activities	Season	With line department	With ATMA	With both
Training programmes on Water use efficiency	24			ATMA	
Farmer-Scientist interaction	3			ATMA	

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

9.1. Nehru Yuva Kendra (NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

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

Type of message	No. of messages	No. of farmers covered
Crop	63	13,12,960
Livestock	15	1,02,483
Fishery	9	22,224
Weather	1	37451
Marketing	-	-
Awareness	7	1,60,618
Training information	-	-
Other	1	4815
Total	**96**	**16,40,551**

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	52,091
2.	No. of farmers registered in the portal	64,000
3.	Mobile Apps developed by KVK	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
Every Saturday	Cleaning of Office Campus by Staff
17.9.2018	Celebration of Seva Diwas
24.9.2018	Celebration of Samagra Swachhata Diwas at Chakradharapur
29.9.2018	Celebration of Sarwatra swachhata at Railway station, Angul
2.10.2018	Cleaning of Maa Budhi Thakurani temple, Angul

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	22	
2. Basic maintenance	9	
3. Sanitation and SBM	12	
4. Cleaning and beautification of surrounding areas	18	
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	1	
6. Used water for agriculture/ horticulture application	12	
7. Swachhta Awareness at local level	6	
8. Swachhta Workshops	1	
9. Swachhta Pledge	1	
10. Display and Banner	3	
11. Foster healthy competition	0	
12. Involvement of print and electronic media	0	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	6	
14. No of Staff members involved in the activities	14	
15. No of VIP/VVIPs involved in the activities	0	
16. Any other specific activity (in details)		
Total	**105**	

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

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

9.10. Details of Swachhta Hi Sewa programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Celebration of Seva Diwas	1	20		
2	Celebration of Samagra Swachhata Diwas at Chakradharapur	1	7		
3	Celebration of Sarwatra swachhata at Railway station, Angul	1	7		
4	Cleaning of Maa Budhi Thakurani temple, Angul	1	20		

9.11. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Women entrepreneurship in aquaculture, fish seed production and ornamental fish production, seedling distribution, quiz competition on agricultural production & agri-enterprises	2	30	1	District Project Coordinator, Mission Shakti

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	Mrs. Binapani Rout	Kusasingha, Banarpal, Mob. 9668187337	Integrated farming system (Dairy, Poultry, Vegetables, floriculture, vermicomposting)
2	Chandrasekhar Sahu	Chakradharpur, Chhenipada Mob.No.9348536816	Paddy, Pulses, Dairy, Vegetable
3	Magata Pradhan	Jarasingha, Banapal Mob.9777856923	Fruit Orchard, Fishery, Floriculture
4	Lochana Sahu	Handiguda, Chhendipada Mob.9777204526	Integrated farming system (Dairy, Poultry, Vegetables, vermicomposting)
5	Bijaya Bir	Bantala, Angul Mob.9861935529	Honeybee
6	Mr. Purna Chandra Sahu	Bhogabereni, Banarpal Mob. 7735009555	Dairy & Value addition
7	Mr. Benudhara Pradhan	Durgapur, Chhendipada Mob. 9777334255	Integrated farming system
8	Mr. Lalmohan Singh	Village-Purikia, Mob. 7377153574	Poultry, mushroom and dairy
9	Sri Shanu Sahu	Chakradharpur, Kosala, Chhendipada, Mob.9178655101	Fish feed
10	Mr. Sunil Kumar mishra	Badakera, Angul, Mob. 9337011151	Stunted yearlings & fingerlings
11	Sri Lambodar sahoo	Dandasingha, Angul, Mob.9556829654	IFS with Ornamental fish rearing
12	Mr. Ajit Kumar dehury	Kumurisingha, Angul, Mob.9938611299	Induced fish seed production
13	Bilarani Sahu	Barasingha, Angul Mob.9439365969	Mushroom
14	Kalyani Sahu	Kumursingha, Angul Mob.9776742848	Vegetable, Mushroom

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
15	Kabita Sahu	Jarasingha, Banarpal Mob.9556342187	Value addition
16	Rekha Sahu	Mahidharpur, Banarpal Mob.9853513385	Mushroom
17	Shantilata Sahu	Talagarh, Angul Mob.No.8658002090	Mushroom, Poultry, Value addition
18	Saudamini Sahu	Talagarh, Angul Mob.No.8018829277	Mushroom, Poultry, Value addition
19	Ritanjali Biswal	Hatigenj, Athamallik Mob.7608885960	Mushroom, Poultry
20	Mayadhar Pradhan	Talagarh, Angul Mob.No.8456011190	Integrated Farming (Paddy, Mushroom, Dairy, Vegetable, Mango)
21	Sudhansu Sekhar Pradhan	Sanjamura, Kishornagar Mob.7077282930	Paddy, Vegetable
22	Duryodhan Sahu	Bargaunia, Angul Mob.9556191818	Paddy, Vegetable, Dairy
23	Sneharabina Tripathy	Bentapur, Angul Mob.8895816480	Mushroom

9.13. Revenue generation

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

9.14. Resource Generation:

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

9.15. Performance of Automatic Weather Station in KVK

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

9.16. Contingent crop planning

Name of the state	Name of district/ KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Odisha	Angul	Varietal evaluation, INM, IWM, ICM, IPM, RCT, Enterprise development	20	7000	❖ Cultivation of drought tolerant rice variety (Sahabhagidhan, satyabhama, DRR 42, DRR 44) ❖ Rising of rice seedling under community nursery ❖ Application of Bispyribac sodium @ 25g/ha at 20 DAT for controlling of weed ❖ Seeds of 1320 q of pulses and oilseeds had supplied under ATMA ❖ Vegetables like brinjal, tomato, okra, cauliflower. *etc* grown under NHM ❖ Growing of 2500 ha pulse crop under NFSM

					❖ Demonstration of 20 ha groundnut, 20 ha greengram under CFLD ❖ Minikits of 6133 nos of pulse & oilseeds under NIMOOP, NFSM & ATMA ❖ Subsidy 75% on pesticides and 50% on sprayers & diesel pump ❖ 13140 Poultry chicks, 450 goats and mushroom spawn bottles have supplied ❖ Joint visit of KVK scientists and Agriculture officials regularly ❖ Awareness campaign and advisory for control of BPH in rice

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

a) Year:

b) Introduction / General Information:

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

11. Details of TSP

a. Achievements of physical output under TSP during 2017-18

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 2017-18 (Rs. In lakh):

c. Achievements of physical outcome under TSP during 2017-18

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

d. Location and Beneficiary Details during 2017-18

District	*Sub-district*	*No. of Village covered*	*Name of village(s) covered*	*ST population benefitted (No.)*		
				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 undertaken	Numbers undertaken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	

Crop Management

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

Livestock and fisheries

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

Institutional interventions

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

Capacity building

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

Extension activities

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

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

Sl. No.	Name of the Award	Year	Conferring Authority	Amount	Purpose
1	Best KVK Award	2018	OUAT	-	Foundation day of OUAT

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
1	Best Farmer Innovator	Mr. Shanu Sahu	2018	OUAT	-	For Low cost fish feed preparation technique by using locally available feed ingredients
2	Best Livestock Award	Mr. Lalmohan Singh	2018	OUAT	-	Commercial dairy, poultry & duckery unit
3	Best Innovator	Mr. Lambodar Pradhan	2018	CIFA	-	For designing low cost agril. implements

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

Average cost and return of the Concrete Nursery pond of KVK, Angul (Annual profit of Rs.82,600/- achieved from a Rectangular Concrete Nursery pond (25 x 15x 4) ft area only

Capital cost (Rs.)		
1 Rectangular fish pond (25 x 15x 4) ft		5,000.00
Other equipments like fish net, buckets, pipes		500
Sub-total		**5,500.00**
Culture cost (Rs.)		
30000 IMC fry stock at one time i.e. (Catla, Jayanti rohu & Mrigal) x 4 times (4 crops per year)	@185/- per 1000 fry	22200
Feed for one year (100 kg)	@ 20.00	2,000.00
Lime for one year (20 kg)	@ 20.00	400
Manures & Fertilizers	-	200
Labour & Miscellaneous		3000
Sub-total		**27800**
Production		
Sale		
22000 Advanced fry + 5000 fingerlings x 4 crops per year	@ 0.80 per Advanced fry & @ 2/- per fingerlings	**1,10,400.00**
Total sale 1,10,400.00		
Annual profit = (1,10,400.00- 27800.00) = 82600.00		**82,600**



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

Sl. No.	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
1	Charmalik Farmers Producer Company Limited	16.12.2015	FES, 2nd Lane, Amalapada, Angul	Collective production & marketing of mango	Mango	50		Linked to mango hub & federation
2	Satakosia Farmers Producer Company	23.4.2018	Plot No.1971/8381, 4th Lane Sree Vihar, Soubhagya Nagar, Angul	• Involved with input supply and marketing of the produce • Got licence from government for seed, pesticide & fertilizer marketing	Vegetable (all)	150		Organic cultivation
3	Banarpal Agro Producer Company	13.4.2018	Plot No.1971/8381, 4th Lane Sree Vihar, Soubhagya Nagar, Angul	• Involved with input supply and marketing of the produce • Got licence from government for seed, pesticide & fertilizer marketing	Vegetable (all)	150		Organic cultivation

16. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1	Mushroom	16 sq.mt	1.86 q	10,180	15,225	12	7
2	Pisciculture	96.15 sq.mt	73,950 nos.	23,106	73,760		
3	Vermi-compost	16 sq.mt	15.25 q	2,780	15,250		
4	Azolla	1 cu.mt	10 kg	-	-		
5	Poultry	13.93 sq.mt	1093 nos.	47,545	65,383		
6	Apiculture Unit	59.4 sq.mt	8.12 kg	-	3,195		
7	Goatery	16 sq.mt	3 nos.	230	4,000		

17. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3-5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Demonstration on backyard poultry Var. Pallishree	• Pallishree (3 batches @ 20 birds/ 4 month) • Vaccination of birds for RD and IBD • Feeding in semi intensive system • Vit. E & Selenium supplementation	20,000/-	43	
2	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	
	Inclusion of medium carp species with IMC	Incorporation of *Puntius sarana* @ 20 % or 2000 no./ha in the Major Carp system i.e. (Catla :Rohu :Mrigal) @ 10000 no. /ha and culture for 5-6 months	198300	18	

	Introduction of ornamental fishery in landless situation	▪ Ornamental Fish, Live-bearers (130 Nos.) @ =(M1:F4), breed 3 times / yr. ▪ feed mixture 23kg /yr ▪ Potassium permangana te @ 5 mg/lit	3290	12	

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

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I (up-to 15.03.2018)	1022	42570	13.3.18	Dr. B. Satpathy Dr. S. Acharya Dr. M. Behera DDA DDH CDVO DAO	Training, demonstration, awareness, literature distribution
II (up-to 24.04.2018)	655	21545			
Total	**1677**	**64115**			

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 2017-18 and 2018-19

Year	Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants	Whether uploaded to SDMS Portal (Y/N)	Fund utilized for the training (Rs.)
2016-17							
2017-18							
2018-19	Vermicompost Producer	Mrs. Ipsita Mishra	4.1.2019	30.1.2019	20	Y	1,63,534
2018-19	Small Poultry farmer	Dr. Monalisa Behera	6.2.2019	27.3.2019	20	Y	1,89,279

b) Information on Skill Development Training Programme (Other than ASCI or less than 200 hrs., if any) if undertaken during 2018-19

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	
Feed Management	Low cost fish feed preparation methods & its use	32 hrs						10		10	10	7, 540
Value addition	Women empowerment through processing and value addition of fruits and vegetables	32 hrs						10		10	10	6,000

21. Information on NARI Project (if applicable): Separate Action Plan to be prepared

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

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

Krishi Kalyan Abhiyan- I and II

A. Training

Name of programme	*No. of programmes*	*No. of farmers benefitted*									*No. of officials attended the programme*
		SC		*ST*		*Others*		*Total*			
		M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	*T*	
KKA-I											
KKA-II											

B. Distribution of seed/ planting materials/ input/ others

Name of programme	*No. of Programme*	*Total quantity distributed*				*No. of farmers benefited*									*No. of other officials (except KVK) attended the programme*
		Seed (q)	*Planting material (lakh)*	*Input (kg)*	*Other (kg/ No.)*	*SC*		*ST*		*Others*		*Total*			
						M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	*T*	
KKA-I															
KKA-II															

C. Livestock and Fishery related activities

Name of programme	*No. of Programme*	*Activities performed*				*No. of farmers benefited*									*No. of other officials (except KVK) attended the programme*
		No. of animals vaccinated	*No. of animals dewormed*	*Feed/ nutrient supplements provided (kg)*	*Any other (Distribution of animals/ birds/ fingerlings) [No.]*	*SC*		*ST*		*Others*		*Total*			
						M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	*T*	
KKA-I															
KKA-II															

D. Other activities

Name of programme	*Activities*	*No. of farmers benefited*									*No. of other officials (except KVK) attended the programme*
		SC		*ST*		*Others*		*Total*			
		M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	T	
KKA-I	Soil Health Card Distributed										
	NADEP Pit established										
	Farm implements distributed										
	Others, if any										
KKA-II	Soil Health Card Distributed										
	NADEP Pit established										
	Farm implements distributed										
	Others, if any										

Krishi Kalyan Abhiyan- III

No. of villages covered	*No. of animal inseminated*	*No. of farmers benefitted*									*Any other, if any (pl. specify)*
		SC		*ST*		*Others*		*Total*			
		M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	T	

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

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

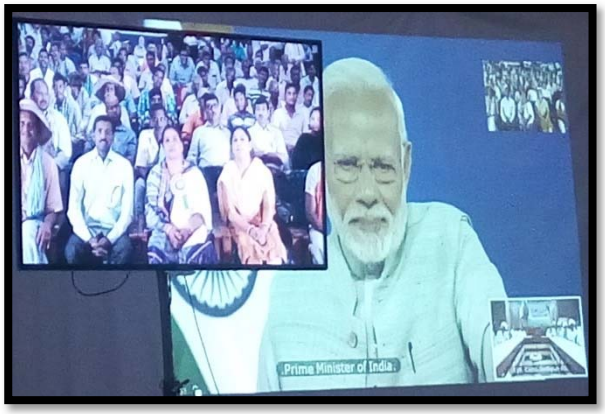
24. Good quality action photographs of overall achievements of KVK during the year (best 10)

Best KVK Award on OUAT Foundation Day

Farmer felicitated on OUAT Foundation Day

Farmer Innovator Awarded at CIFA

Progressive Farm Women during Agri-Vikas



Hon'ble PM's Interaction Programme with Farmers

Hon'ble PM's Interaction Programme with SHGs

Oil distillation at Pampsar in Convergence with CIMAP, Lucknow

Pledge taken during Vigilance Awareness Week

World Soil Day graced by Collector & DM

R-E Meeting attended by PD, DRDA

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