ANNUAL PROGRESS REPORT

2018-19

Krishi Vigyan Kendra
Jharsuguda

Odisha University of Agriculture &
Technology Bhubaneswar

PROFORMA FOR ANNUAL REPORT2018-19 (April 2018to March 2019)

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	
Krishi Vigyan Kendra At/Po- Badmal Jharsuguda, Pin-768202	Office	FAX	kvkjharsuguda.ouat@gmail.com jharsugudakvk@yahoo.co.in

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

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology, Bhubaneswar, Odisha.	0674-2397818/919 0674-2397424	0674-2397818/919	registrarouat@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. JyotirmayeeUdgata		9437403755	udgatajyoti@yahoo.com

1.4. Year of sanction of KVK:2006

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. JyotirmayeeUdgata	Sr. Scientist & Head	Home Science			Temporary	Others
2	Subject Matter Specialist	Sri Monoj Kumar. Barik	Scientist	Extension Education	15600-39100 Present basic- 21390	07.12.2006	Temporary	Other
3	Subject Matter Specialist	Dr. SumanKumari Joshi	Scientist	Animal Science	15600-39100 Present basic-		Temporary	Other
4	Subject Matter Specialist	Sri Prabhanjan Mishra	Scientist	Horticulture	15600-39100 Present basic- 16920	19.11.2014	Temporary	Other
5	Subject Matter Specialist	Vacant	-	-	-	-	-	-
6	Subject Matter Specialist	Vacant	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-
8	Programme Assistant	Vacant	-	-	-	-	-	-
9	Computer Programmer	Sri Bishnu Ranjan Padhi	Computer Programmer	Computer Sc	9300-34800 Present basic- 14670	11.08.2014	Temporary	Others
10	Farm Manager	Ms. MadhuriToppo	Farm Manager	B.Sc (Ag)	9300-34800 Present basic- 9710	16.12.2015	Temporary	ST
11	Accountant / Superintendent	Vacant						
12	Stenographer	Sri Pradip Ku. Nayak	Junior Steno cum Computer Operator	BA	5200-20200 Present basic- 7270	23.12.2013	Temporary	Others
13.	Driver	Sri SamantaMallick	Driver	-	5200-20200 Present basic- 5200	28.07.2015	Temporary	SC
14.	Driver	Manoj Kumar Sahoo	Driver	-	5200-20200 Present basic-	20.09.2017	Temporary	Others
15.	Supporting staff	Kamala Nag	Peon -cum - Watchman	-	4440-7440 Present basic- 5380	29.07.2008	Temporary	SC
16.	Supporting staff	Akshya Ku. Swain	Peon -cum - Watchman	-	4440-7440 Present basic- 5380	01.07.2014	Temporary	Others

1.6. **Total land with KVK (in ha) :**

S. No.	Item	Area (ha)
1	Under Buildings	0.3
2.	Under Demonstration Units	0.4
3.	Under Crops	1.34
4.	Orchard/Agro-forestry	2.0
5.	Others with details (Lawn Area , Road	0.7
6.	Land under encroachment	1.0
	Total	**5.74**

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	-	-	-	-	Completed	1500	Under Use	ICAR
2.	Farmers Hostel	-	-	-	-	Completed	1500	Under use	ICAR
3.	Staff Quarters (6)	-	-	-	-	Completed	1400	Under use	ICAR
4.	Piggery unit	-	-	-	-				
5	Fencing	-	-	-	-	Completed	--	Under Use	ICAR & RKVY
6	Rain Water harvesting structure	-	-	-	-	Completed	1800	Under Use	ICAR & RKVY
7	Threshing floor	-	-	-	-	Completed	600	Under Use	ICAR
8	Farm godown	-	-	-	-				
9.	Dairy unit	-	-	-	-				
10.	Poultry unit	-	-	-	-	Completed	20	Under Use	RKVY
11.	Goatary unit	-	-	-	-				

12.	Mushroom Lab	-	-	-	-	Completed	15	Under Use	RKVY
13.	Mushroom production unit	-	-	-	-				
14.	Shade house	-	-	-	-				
15.	Soil test Lab	-	-	-	-	Completed	20	Under use	ICAR
16	Others,Please Specify	-	-	-	-				
17	Vermicompost Unit	-	-	-	-	Completed	15	Under Use	RKVY
18	Poly House	-	-	-	-	Completed	80	Under Use	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	8,00,000	13443	Good

C) **Equipment & AV aids**

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Soil Testing Lab. Equipment	2017	1700000	Good	ICAR
Mushroom Spawn production equipment	2011	250000	Good	RKVY
b. Farm machinery				
Tractor	2006	700000	Good	ICAR
c.AV Aids				
LCD	2012	50000	Good	ICAR
Television	2013	40000	Good	ICAR
Sound System	2011	50000	Good	ICAR
Conference table Audio System	2017	64000	Good	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Cultivator	2006	30000	Not Good	ICAR
Brush Cutter	2017	42000	Good	ICAR
Manual Paddy Thresher	2012	4500	Good	ICAR
Manual Paddy Winnower	2012	5000	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.	17.12.2018	30	To create awareness among the farmers regarding proper vaccination of livestock and poultry birds in time	• An animal health camp conducted on 9th November 2018 at Ghantamal in collaboration with the Animal Resource Department, Jharsuguda • Training programme on "Importance of Vaccination in Livestock was organized.	
			To create marketing awareness with processing and value addition of chili.	• Awareness programmes on preparation of value added products from chilli were organized at village level. • Training programme on "value addition of fruits and vegetable" will be conducted in November.	
			To promote tomato cultivation before Sesame for effective use of land during Kharif	• Awareness meetings were organized at village level.	
			The tomato hybrid variety may be cultivated by using trellis system.	• Assessment of mulching in Tomato was conducted with hybrid variety Arka Rakshak with trellis system.	
			Marketing problem of mushroom may be addressed by creating awareness among Anganwadi	• Training on "nutritional value of mushroom and value addition" will be conducted for the Anganwadi workers in the month of January	

			workers on importance of mushroom diet for children even though there is no marketing problem in the district	2019.	
			Number of exposure visit for farmers under KVK may be increased	• Two numbers of exposure visit will be conducted in January and February 2019	
			The training calendar of KVK may be circulated to the concerned line department	• Training calendar prepared and distributed to the line department.	
			To include intervention on elephant foot yam.	• Training programme on Tuber crops conducted	
			Intervention on desi spine gourd may be taken up	• Trellis system being promoted in desi spine gourd cultivation in convergence mode with horticulture department at Kureimal village	
			Use of area specific mineral mixture for dairy cattle	• Demonstration of area specific mineral mixture to improve reproductive efficiency of cattle will be conducted in December 2018.	
			Introduction of trellis system in pointed gourd	• Trellis system being implemented in pointed gourd cultivation in convergence mode with horticulture department at Kureimal village	
			FLD of animal science on ecto parasite control of dairy cattle	• Demonstration on "Endo parasite control of goats" was conducted in 2017-18.	

** 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	Rainfed
2	Agro-climatic Zone	Western Central Table Land Zone and North Western Plateau Zone
3	Agro ecological situation	Undulating sub mountainous tract rainfed,Plateau Rainfed Lateritic low rainfall.
4	Soil type	The soil is mostly lateritic. Red and Yellow soils are found in small patches of Kolabira block only. Soil reaction is generally acidic in Jharsuguda, Lakhanpur and Kirimira and almost neutral in Laikera and Kolabira block.
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Paddy-1944kg/ha,Maize-2485kg/ha,Greengram- 430kg/ha, Blackgram-394kg/ha, Groundnut-1268kg/ha, Sesamum-374kg/ha, Potat-15560kg/ha, Onion- 9620kg/ha, Chilli-988kg/ha, Turmeric-6143kg/ha, Ginger-5259kg/ha.
6	Mean yearly temperature, rainfall, humidity of the district	42˚ C & 12˚ C, 1362.8mm, 55%
7	Production of major livestock products like milk, egg, meat etc.	Milk- 14.41 000'MT, Meat- 1256.55MT, Egg- 9.75 Million, 5421 MT

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		Jharsuguda	Durlaga	Paddy, Greengram, Brinjal, Tomato, Potato	Paddy-Local variety, disease and pest incidence, Weed problem Greengram-Local variety, disease and pest incidence. Brinjal- Local variety, disease and pest incidence Tomato- Local variety, disease and pest incidence Potato- Blight problem and local variety.	➢ Varietal replacement ➢ Disease and pest management ➢ Weed management ➢ Integrated nutrient management.
2		Kolabira	Ghantamal	Paddy, Sesamum, Potato, Onion, Cauliflower,	Paddy-Local variety, disease and pest incidence, Weed problem Sesamum-Local variety, disease and pest incidence. Tomato- Local variety, disease and pest incidence Potato- Blight problem and local variety. Onion- Low yield due to local variety. Cauliflower- Local variety, disease and pest	➢ Varietal replacement ➢ Disease and pest management ➢ Weed management ➢ Integrated nutrient management.
3		Kirmira	Kadabahal	Paddy,Greengram, Brinjal, Tomato, Potato	Paddy-Local variety, disease and pest incidence, Weed problem Greengram-Local variety, disease and pest incidence. Brinjal- Local variety, disease and pest incidence Tomato- Local variety, disease and pest incidence Potato- Blight problem and local variety.	➢ Varietal replacement ➢ Disease and pest management ➢ Weed management ➢ Integrated nutrient management.

4		Laikera	Patrapali	Paddy,Sesamum, Brinjal, Tomato	Paddy-Local variety, disease and pest incidence, Weed problem Sesamum-Local variety, disease and pest incidence. Tomato- Local variety, disease and pest incidence Brinjal- Local variety, disease and pest incidence	➢ Varietal replacement ➢ Disease and pest management ➢ Weed management ➢ Integrated nutrient management.
5.		Lakhanapur	Kureimal	Paddy, Greengram, Groundnut, Potato, Tomato, Ginger, Pointed gourd.	Paddy-Local variety, disease and pest incidence, Weed problem Greengram-Local variety, disease and pest incidence. Brinjal- Local variety, disease and pest incidence Tomato- Local variety, disease and pest incidence Groundnut- Local variety, Tikka disease Potato- Blight problem and local variety. Ginger- Rhizome rot, local variety Pointed Gourd- Root rot, local variety,	➢ Varietal replacement ➢ Disease and pest management ➢ Weed management ➢ Integrated nutrient management.
6.		Laikera	Rengali	Paddy, Greengram, Groundnut,Cauliflower,Brinjal, Tomato, Potato, Chilli	Paddy-Local variety, disease and pest incidence, Weed problem Greengram-Local variety, disease and pest incidence. Groundnut-Local variety, disease and pest incidence Tomato- Local variety, disease and pest incidence Potato- Blight problem and local variety Ginger- Rhizome rot, local variety Chilli- Leaf curl virus, Local variety and wilting.	➢ Varietal replacement ➢ Disease and pest management ➢ Weed management ➢ Integrated nutrient management. ➢ Post harvest 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
Durlaga	Jharsuguda	Execution of DFI and other intervention as per action plan 2017-18.
Ghantamal	Kolabira	Execution of DFI and other intervention as per action plan 2017-18.
Kureimal	Lakhanapur	Execution of DFI and other intervention as per action plan 2017-18.
Banjari	Jharsuguda	Execution of DFI and other intervention as per action plan 2017-18

2.1 Priority thrust areas

S. No	Thrust area
1.	Crop diversification and varietal replacement
2.	Integrated Nutrient Management
3.	Production of quality seeds, seedlings and planting materials
4.	IPM, IDM& Weed management in crops.
5.	Market led production strategies
6.	Women empowerment through income Generating Activities
7.	Promoting Nutritional and Kitchen gardening
8.	Breed up gradation of farm animals and poultry
9.	Production of organic inputs
10.	Nursery raising and management
11.	Cultivation of High value & commercial crops
12.	Post-harvest technology and value addition
13	Dairy and livestock management
14	Drudgery reduction for farm women
15	Group formation and management of groups
16	Integrated fish farming

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
6	6	6	2	1	8	2	17	12	27	15	42	15	13	150	5	2	23	24	40	36	68	62	130

Training												Extension activities										
Number of Courses		Number of Participants										Number of activities		Number of participants								
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement							
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
42	42	42	123	25	134	43	176	429	433	497	930	520	520	1572									1572

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
105	105	4	5	14	12	45	20	48	40	88	1572	1572	2	6	34	12	42	34	78	52	130

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
2.0	2.0	1.61597	1.61597

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
1434	1434	30	30

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	16	16	--	--	--	--	--
Seminar/conference/ symposia papers							
Books							
Bulletins							
News letter	1	500	--	--	--	--	--
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature	2	1000					
Technical reports							
Electronic Publication (CD/DVD etc)							
TOTAL	19	1516	--	--	--	--	--

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 due to BPH attack
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO1-Rice variety- Pratikshya, Medium bold grain, duration -135 days TO2-Rice variety- Hasanta, Small bold grain, white kernel, Duration -145 days
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source-OUAT 2014
5.	Production system and thematic area	Rice based, Varietal substitution
6.	Performance of the Technology with performance indicators	Good, Yield-48q/ha, No. of tillers/hill-18
7.	Final recommendation for micro level situation	Rice variety Hasanta is resistant to BPH in medium land and also in low land
8.	Constraints identified and feedback for research	Lodging problem
9.	Process of farmers participation and their reaction	Appreciated the variety and adopted

Thematic area: Varietal substitution

Problem definition: Low yield due to BPH attack

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 spikelet per panicle	Test wt. (100 grain wt.)						
FP	7	14			22	37.0	31400	62900	31500	2.0
TO1	7	15	--	--	18	40.0	32300	68000	35700	2.1
TO2	7	18	--	--	0	48.0	35400	81600	46200	2.3

Results: Rice variety Hasanta is resistant to BPH and give 29 % more yield over farmer practice

OFT-2

1.	Title of On farm Trial	Assessment of integrated weed management in direct seeded rice
2.	Problem diagnosed	Weed infestation is high in DSR
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO_1 -Pyrazosulfuron Ethyl 10%WP @ 200 g/ha at 3DAS TO_2 -Pre emergence application of Pendimethalin 30 % EC @ 1.0 kg a.i –ha at 1-3 DAS followed by early post emergence application of Bispyribac-sodium 10% SC @25g a.i –ha at 7-10 DAS followed by post emergence application of Ready-Mix (Chlorimuron Ethyl + Metsulfuron Methyl) @ 4 g a.i –ha at 30 DAS followed by one hand weeding at 60 DAS
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT
5.	Production system and thematic area	Rice Based, Weed management
6.	Performance of the Technology with performance indicators	Yield-29q/ha, No. of tillers/hill-12
7.	Final recommendation for micro level situation	Pendimethalin and Bispyribac-sodium may be applied at recommended dose in upland rice for better weed management
8.	Constraints identified and feedback for research	--
9.	Process of farmers participation and their reaction	Accepted by the farmers

Thematic area: Weed management

Problem definition: Weed infestation is high in DSR

Technology assessed: Assessment of integrated weed management in direct seeded 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 effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7	9			15	22.0	22000	37400	15400	1.7
TO1	7	10	--	--	12	25.0	23600	42500	18900	1.8
TO2	7	12	--	--	6	29.0	26000	49300	23300	1.9

Results: Application of Pendimethalin and Bispyribac-sodium suppress weed and increase yield by 32 % over farmers practice

OFT-3

1.	Title of On farm Trial	Assessment of mulching in Tomato
2.	Problem diagnosed	Weed infestation, moisture stress
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO_1 - Use of black polythene (30 Micron) TO_2 -Use of silver black polythene (30 Micron)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source-IIHR, Bengaluru-2013
5.	Production system and thematic area	Vegetable production, Weed management
6.	Performance of the Technology with performance indicators	Use of silver black polythene increases yield by 24% over farmers practice
7.	Final recommendation for micro level situation	Mulching by silver black polythene is recommended for weed management in tomato
8.	Constraints identified and feedback for research	--
9.	Process of farmers participation and their reaction	Accepted by the farmers

Thematic area: Weed management
Problem definition: Weed infestation, Moisture stress
Technology assessed: Assessment of mulching in Tomato
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
		Dry mass of weed in gm/sq. mtr	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7	18	-	-	-	321	152000	321000	169000	2.1
TO1	7	5	-	-	-	376	171000	376000	205000	2.2
TO2	7	4	-	-	-	398	173000	398000	225000	2.3

Results: Mulching by silver black polythene gives more yield over farmers practice

OFT-4

1.	Title of On farm Trial	Assessment of Low Cost artificial Ripening process in Banana
2.	Problem diagnosed	Natural ripening of fruits harvested at mature green stage is slow leading to high weight loss, desiccation and in some cases uneven ripening
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO_1 -7.5 m.l of Etheral per 10 l of water for dipping of 1q of banana TO_2 -2 ml Etheral per every 1 cu.mt. room size + 0.25 g NaOH per every 1 ml ethrel used is kept in a container. In every cu.mt. room size, 200-250 kg Banana is kept 18-24 hours of exposure in air tight chamber and shifted to ambient temperature for completing the ripening process
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR, Bengalure
5.	Production system and thematic area	Fruit based, Post Harvest Management
6.	Performance of the Technology with performance indicators	Self life and keeping quality of banana ripen through low Cost artificial Ripening process increases
7.	Final recommendation for micro level situation	Self life and keeping quality of banana ripen through low Cost artificial Ripening process increases and gives more income (80%) over farmers practice .

8.	Constraints identified and feedback for research	--
9.	Process of farmers participation and their reaction	Accepted by the banana growers

Thematic area: Post Harvest Management

Problem definition: Natural ripening of fruits harvested at mature green stage is slow leading to high weight loss, desiccation and in some cases uneven ripening

Technology assessed: Assessment of Low Cost artificial Ripening process in Banana

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield	Cost of ripening process (Rs./q)	Gross return (Rs./q)	Net return (Rs./q)	BC ratio
		Duration of ripening (days)	Self life (days)	Test wt. (100 grain wt.)						
FP	7	3	2	-	-	-	400	1500	1100	3.75
TO1	7	2	4	-	-	-	450	2000	1550	4.4
TO2	7	2	6	-	-	-	500	2500	2000	5.0

Results: Low Cost artificial Ripening process gives more income (80%) over farmers practice.

OFT-5

1.	Title of On farm Trial	Assessment of hydroponic fodder for dairy animals
2.	Problem diagnosed	Higher cost of concentrate as dairy feed, non-availability of good quality fodder
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO_1 -Hydroponic cereal (Maize) fodder cultivation TO_2 -Hydroponic legume (Greengram) fodder cultivation
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TANUVAS, 2016
5.	Production system and thematic area	Animal based, Feed management of livestock
6.	Performance of the Technology with performance indicators	Hydroponic legume (Greengram) fodder cultivation gives more milk yield
7.	Final recommendation for micro level situation	Hydroponic legume (Greengram) fodder cultivation recommended for dairy animal feeding
8.	Constraints identified and feedback for research	--
9.	Process of farmers participation and their reaction	Accepted by the farmers due to availability of fodder through out the year

Thematic area:
Problem definition: Higher cost of concentrate as dairy feed, non-availability of good quality fodder
Technology assessed: Assessment of hydroponic fodder for dairy animals
Table:

Technology option	No. of trials	Yield component		Gross return (Rs/ha)	Net Income/month/animal (Rs.)	BC ratio
		Feed cost/month/animal	Milk yield per month/animal			
FP	7	2250	146	5840	3590	2.6
TO1	7	1350	150	6000	4650	4.4
TO2	7	1220	152	6080	4860	4.9

Results: Hydroponic legume (Greengram) fodder can be available through out the year which can address the fodder non availability problem during lean season.

OFT-6

1.	Title of On farm Trial	Assessment of improved backyard poultry breeds
2.	Problem diagnosed	Poor growth rate and high mortality rate in poultry
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO_1 -Brooding, vaccination (R.D ,IBD, RD booster) and feeding of Aseel breed for 1 month TO_2 -Brooding, vaccination (R.D ,IBD, RD booster) and feeding of Kadaknath birds for 1 month
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source-CPDO, 2012
5.	Production system and thematic area	Poultry based, Breed upgradadtion
6.	Performance of the Technology with performance indicators	Rearing of Kadaknath gives high return of Rs.520 /bird
7.	Final recommendation for micro level situation	Kadaknath breed is preferred for high return and less mortality rate
8.	Constraints identified and feedback for research	--
9.	Process of farmers participation and their reaction	Accepted by the farmers

Thematic area: Breed up gradation

Problem definition: Poor growth rate and high mortality rate in poultry

Technology assessed: Assessment of improved backyard poultry breeds

Table:

Technology option	No. of trials	Yield component Mortality rate (%)	Body wt.	Cost of rearing/bird(Rs.)	Gross return (Rs/bird)	Net return (Rs./bird)	BC ratio
FP	7	30	1.6 kg/bird/6month	90	320	230	3.5
TO1	7	14	2.5 kg/bird/6month	120	450	330	3.8
TO2	7	18	2.2 kg/bird/6month	140	660	520	4.7

Results: Breed Kadaknath gives more income as compared to desi bird

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	Drought tolerant HYV Paddy – Sahabhagidhan, duration- 100-105 days, spacing 20x15 cm	0.4	0.4	1	-	3	-	6	-	10	-	10	-
2.	Paddy	Nutrient management	Judicious and timely application of urea after easily assessing the leaf colour status by CLCC,Monitoring start 21 DAT / 28 DAS & monitor seven days interval, Reading taken time 8-10 am or 2-4 pm by same person, Ten topmost expand leaves should be taken from the field, Apply the recommended Urea after matching of 5-6 leaves with CLCC reading	0.4	0.4	-	-	2	-	8	-	10	-	10	
3.	Paddy	Weed Management	Pre emergence application of (Pretilachlor + Bensulfuron Methyl) [LONDAX POWER] @ 10 kg-ha at 1-3 DAT followed by early post emergence spraying of Bispyribac Sodium 10 % SC @ 25g a.i kg-ha at 10-15 DAT	0.4	0.4	1	-	2	-	7	-	10	-	10	-
4.	Sweet Corn	Varietal substitution	Variety- Sugar 75, Crop geometry- 60x45 cm	0.4	0.4	-	-	**2**	-	**8**	-	**10**	-	10	-

5	Sweet Corn	Nutrient Management	STBFR +(60:40:40 NPK kg/ha) 5 ton FYM /ha + application of lime + $ZnSO_4$ @ 25 Kg/ha	0.4	0.4	-	-	**1**		**9**	-	**9**	-	10	-
6	Papaya	Varietal substitution	Variety-Red lady, high density planting, a Closer spacing of 1.2 X 1.8 Mt accommodating more than 4,630 plants/ha	0.4	0.4	2	-	3		4	1	9	1	10	-
7	Poultry	Poultry Management	Brooding, vaccination (R.D ,IBD, Gumboro booster) and feeding for 1 month	250	250	1	2	2	2	1	2	4	6	10	-
8	Poultry	Poultry Management	Inclusion of lypholised*Lactobaccili* in drinking water @ 1gm/bird/day	250	250	-	2	1	3	1	3	2	8	10	-
9	Cattle	Disease Management	External application of Flumethrin and Deltamethrin	10	10	1	1	2	1	3	2	6	4	10	-
10	Paddy Straw Mushroom	IGA	Cultivation of paddy straw mushroom in poly house in rabi season	10	10	-	1	-	3	-	6	-	10	10	-
11	Vermicomposting	IGA	Vermicomposting in poly tank(12'x4'x3') SMS and cow dung in 60:40 ratio with verms*p.E. foetida*	10	10	1	1	2	-	6	-	9	1	10	-
12	Apiary	IGA	Apiary with Critical Inputs: Bee box, accessories, Bee colony (*Apiscerenaindica*) and dearth feeding of sugar and water (1:1) during lean period	5	5	-	1	2	1	2	4	4	6	10	-
13	Duck	Poultry farming	Khaki Campbell, body wt 2.2-2.6kg/ 6 month, annual egg production 300/ annum	**10**	**10**	-	**1**	**1**	**2**	**2**	**2**	**2**		10	-
14	Sesame	Package and	Full package and practices with HYV seed –GT-2, line sowing with soil test	**20**	**20**									50	-

		Practices	based fertilizer application, planting time- August												
15	Greengram	Package and Practices	Line sowing, 25cmx10cm , Seed treatment with Vitavax Power (Carboxin 37.5% + Thiram 37.5%) @ 2.0 gram / kg seed , Soil test based fertilizer application, Application of Pendimethalin @ 2.5 litre/ha for weed management and need based plant protection measures	**20.0**	**20.0**									50	-

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 18	Rainfed	Red laterite	310.2	17.0	340	Fallow	25.06.18	22.10.18	978.8	56
Paddy	Kharif 18	Rainfed	Red laterite	290.1	14.0	321	Fallow	26.06.18	05.12.18	978.8	56
Paddy	Kharif 18	Rainfed	Red laterite	286.0	14.0	355	Fallow	27.06.18	02.12.18	978.8	56
Sweet Corn	Kharif 18	Rainfed	Red laterite	310.0	12.0	332	Vegeta ble	07.07.18	28.09.18	978.8	56
Sweet Corn	Kharif 18	Rainfed	Red laterite	300.0	9.0	340	Vegeta ble	09.07.18	10.10.18	978.8	56
Papaya	Kharif 18	Rainfed	Red laterite	285.0	16.0	327	Vegetable	20.06.18	25.12.18	978.8	56
Poultry	Kharif 18	-	-	-	-	-	-	12.09.18	12.02. 19	-	-
Poultry	Kharif 18	-	-	-	-	-	-			-	-
Cattle	Rabi 18-19	-	-	-	-	-	-			-	-
Paddy Straw Mushroom	Rabi 18-19	-	-	-	-	-	-	12.10.18	24.12.18	-	-
Vermicomposting	Rabi 18-19	-	-	-	-	-	-	12.10.18	02.02.19	-	-
Apiary	Year round	-	-	-	-	-	-	15.07.18	25.01.19	-	-
Duck	Rabi 18-19	-	-	-	-	-	-	12.06.18	10.01.19	-	-
Sesame	Kharif 18	Rainfed	Red laterite	300.0	12.0	321	Fallow	12.08.18	24.11.18	978.8	56
Greengram	Summer 18-19	Irrigated	Red laterite	298.1	15	333	Rice	11.01.19	14.04.19	115.8	8

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: Sesame

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

* 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 -Greengram

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

* 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
Paddy	Varietal substitution	Drought tolerant HYV Paddy – Sahabhagidhan, duration- 100-105 days, spacing 20x15 cm	10	0.4	30.0	22	36	14 tillers/hill	10 tillers/hill	26850	51000	24150	1.9	23375	37400	14025	1.6

Paddy	Nutrient management	Judicious and timely application of urea after easily assessing the leaf colour status by CLCC,Monitoring start 21 DAT / 28 DAS & monitor seven days interval, Reading taken time 8-10 am or 2-4 pm by same person, Ten topmost expand leaves should be taken from the field, Apply the recommended Urea after matching of 5-6 leaves with CLCC reading	10	0.4	37.5	33	24.17	15 tillers/hill	13 tillers/hill	33552	63750	30197	1.9	32000	56100	24100	1.7

Paddy	Weed management	Pre emergence application of (Pretilachlor + Bensulfuron Methyl) [LONDAX POWER] @ 10 kg-ha at 1-3 DAT followed by early post emergence spraying of Bispyribac Sodium 10 % SC @ 25g a.i kg-ha at 10-15 DAT	10	0.4	38.5	31.5	22.0	5 No. of weed/M^2	12 No. of weed/M^2	29350	65450	36100	2.23	31500	53550	22000	1.7
Sweet Corn	Varietal substitution	Variety- Sugar 75, Crop geometry-60x45 cm	10	0.4	88	81	8.5	Cob weight in gm-250	Cob weight in gm-200	53330	176000	122000	3.3	46285	97200	50900	2.1
Sweet Corn	Nutrient management	STBFR +(60:40:40 NPK kg/ha) 5 ton FYM /ha + application of lime + $ZnSO_4$ @ 25 Kg/ha	10	0.4	94	82	14.6	Cob weight in gm-200	Cob weight in gm-180	69629	188000	118370	2.7	41000	98400	57400	2.4
Papaya	Varietal substitution	Variety-Red lady, high density planting, a Closer spacing of 1.2 X 1.8 Mt accommodating more than 4,630 plants/ha	10	0.4	96	76	17.07	Avg. Fruit weight in gm-1600	Avg. Fruit weight in gm-900	53500	115200	61700	2.15	50666	91200	40534	1.8
		Total	60	2.4													

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	Disease management	External application of Flumethrin and Deltamethrin	10	10	LMY-1110 ltr.	LMY-750 ltr.	48	Theileria incidence (%)-0	Theileria incidence (%)-30	12800	33300	20200	2.6	9782	22500	12717	2.3
Poultry	IGA	Brooding, vaccination (R.D ,IBD, Gumboro booster) and feeding for 1 month	10	250	Body weight in 6 months in kg/bird-2.5	Body weight in 6 months in kg/bird -1.6	56.25	Mortality rate (%) -8	Mortality rate (%) -17	120/bird	500/bird	380/Bird	4.1	90	320	230/Bird	3.4
Poultry	Feed management	Inclusion of lypholised *Lactobaccili* in drinking water @ 1gm/bird/day	10	250	Body weight in 6 months in kg/bird-2.8	Body weight in 6 months in kg/bird -1.7	64.7	Egg laying capacity-160	Egg laying capacity-130	125/bird	560/bird	435/Bird	4.5	90	340	250/Bird	3.8
Duckery	IGA	Duck rearing-Khaki Campbell	10	200	2.4kg/bird	1.8 kg/bird	33	Half yearly egg production/bird-120	Half yearly egg production/bird-60	320	1440	1120/bird	4.5	190	720	530/bird	3.8
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	`-	
Total			40	710													

* 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																	
Ornamental fishes																	
Others (pl.specify)																	
	Total																

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

** BCR= GROSS RETURN/GROSS COST

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Paddy Straw mushroom	Enterprise development	10	50	800 gm/bed	1600 gm/bed	--	Bio Efficiency(%)-5.33	Bio Efficiency(%)-87.5	60	240	180/bed	4.0	50	192	142/bed	3.5
Button mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apiculture	Enterprise development	5	10	1.8 kg/box	-	--	--	--	800	1800	1000/box	2.2	-	-	-	-
Vermicomposting	Enterprise development	5	10													
Total		20	70													

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

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

Farm implements and machinery

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

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

**** BCR= GROSS RETURN/GROSS COST**

Demonstration details on crop hybrids

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

Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (Pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (Pl.specify)										
Total										
Commercial crops										
Cotton										
Coconut										
Others (Pl.specify)										

Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl.specify)										
Total										

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Paddy	Paddy variety Sahabhagidhan is suitable for upland and tolerant to moisture stress
2	Paddy	Judicious and timely application of urea after easily assessing the leaf colour status by CLCC
3	Paddy	Pre emergence application of (Pretilachlor + Bensulfuron Methyl) controls weed and increases the yield
4	Sweet Corn	Sweet corn variety-Sugar 75 gives more income
5	Sweet Corn	Nutrient management in in Sweet corn gives more yirld
6	Papaya	Papaya variety-Red Lady yields more over farmers practice
7	Dairy	External application of Flumethrin and Deltamethrin increases milk yield
8	Poultry	Poultry –Rainbow rooster gives more income
9	Poultry	Probiotic supplementation in poultry gives more body weight
10	Duckery	Duck breed-Khaki Campbell have more egg laying capacity and more body weight over farmers practice
11	Paddy Straw Mushroom	Gives more income over oyster mushroom in off season
12	Apiary	Gives more additional income

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	15.09.18, 14.1018, 20.12.18	3	150	Rice-Sahabhagidhan, Sweet Corn-Sugar 75 and Paddy straw Mushroom
2.	Farmers Training				
3.	Media coverage				
4.	Training for extension functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2018 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	Sesame	Chaiti Mug	5.23	5.23	4.03	8.00	Variety GT-10,Seed treatment with Vitavax power @2gm/kg of seed, Soil test based fertiliserapplication,Herbicide application and Plant protection chemicals	50	20.0	7.48	5.4	6.72	28.48	66.74	16.0
2	Greengram	Local	5.2	4.3	4.1	9.0	Variety-IPM-02-14, line sowing, 25cmx10cm , Seed treatment with Vitavax Power (Carboxin 37.5% + Thiram 37.5%) @ 2.0 gram / kg seed , Soil test based fertilizer application, Application of Pendimethalin @ 2.5 litre/ha for weed management and need based plant protection measures	50	20.0	8.1	7.1	7.6	76.74	85.0	15.55

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	Variety GT-10,Seed treatment with Vitavax power @2gm/kg of seed, Soil test based fertiliserapplication, Herbicide application and Plant protection chemicals	13800	25000	11200	1.81	15600	32258	16657	2.06
2	Variety-IPM-02-14, line sowing, 25cmx10cm , Seed treatment with Vitavax Power (Carboxin 37.5% + Thiram 37.5%) @ 2.0 gram / kg seed , Soil test based fertilizer application, Application of Pendimethalin @ 2.5 litre/ha for weed management and need based plant protection measures	14400	26000	11600	1.8	18000	38000	20000	2.1

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	Sesame, GT-10	11288	444.41	50	21.76	184.11	Family maintenance	2.11
2	Greengram	15200	560.12	50	30.0	169.88	Family maintenance	3.0

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	Variety GT-10,Seed treatment with Vitavax power @2gm/kg of seed, Soil test based fertiliserapplication,Herbicide application and Plant protection chemicals	Yes	Good	90	No	Yes	-
2	Variety-IPM-02-14, line sowing, 25cmx10cm , Seed treatment with Vitavax Power (Carboxin 37.5% + Thiram 37.5%) @ 2.0 gram / kg seed , Soil test based fertilizer application, Application of Pendimethalin @ 2.5 litre/ha for weed management and need based plant protection measures	Yes	Good	95	No	Yes	-

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Total Package and practices with improved variety	Good	28% more yield over local check	Accepted by the farmers
Total Package and practices with improved variety	Good	46.15% more yield over local check	Accepted by the farmers

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Field Day	07.12.18, Jhirlapalli	50
2	Field Day	31.03.19, Jamera	50

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

CFLD on Sesame variety -GT-10

CFLD on Greengram variety –IPM-02-14

H. Farmers' training photographs

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

Field Day on Sesame variety -GT-10

Field Day on Greengram variety –IPM-02-14

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Sesame	i) Critical input		33565	--
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)		4478	--
	iv)Publication of literature			
	Total	**100000**	**38043**	**61957**
Greengram	i) Critical input		90836	--
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)		11192	--
	iv)Publication of literature		9968	--
	Total	**178800**	**111996**	**66804**

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													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, 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													
Micro nutrient 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													
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													

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
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													
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													

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

B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	1	5	3	8	2	1	3	2	2	4	9	6	15
Bee-keeping	1	7	3	10	1	1	2	2	1	3	10	5	15
Integrated farming													
Seed production	1	4	3	7	1	1	2	4	2	6	9	6	15
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	1	3	2	5	2	2	5	4	2	6	9	6	15
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	5	4	9	1	1	2	2	2	4	8	7	15

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
Ornamental fisheries													
Enterprise development	2	10	7	17	3	2	5	4	4	8	17	13	30
Para vets													
Para extension workers													
Composite fish culture													
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													
TOTAL	7	34	22	56	10	8	19	18	13	31	62	43	105

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	3	2	5	1	1	2	2	1	3	6	4	10
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	1	4	2	6	-	1	1	1	2	3	5	5	10
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production	1	3	2	5	1	1	2	2	1		6	4	10
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production and use of organic inputs													
Gender mainstreaming through SHGs													
TOTAL	3	10	6	16	2	3	5	5	4	6	17	13	30

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	2	16	12	28	8	2	10	7	5	12	31	19	50
Resource Conservation Technologies													
Cropping Systems	2	18	12	30	5	4	9	6	5	11	29	21	50
Crop Diversification	1	8	5	13	3	2	5	4	3	7	15	10	25
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	2	17	12	29	5	4	9	8	4	12	30	20	50
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops	2	22	14	36	4	5	9	3	2	5	29	21	50
Off-season vegetables													
Nursery raising													
Export potential vegetables	1	8	5	13	3	2	5	4	3	7	15	10	25
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	1	9	7	16	3	2	5	2	2	4	14	11	25
Others, if any (Cultivation of Vegetable)	2	18	15	33	4	2	6	6	5	11	28	22	50
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													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													

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													
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													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management	2	17	15	32	4	4	8	7	3	10	28	22	50
Poultry Management	2	22	12	34	3	3	6	6	4	10	31	19	50
Piggery Management													
Rabbit Management													
Disease Management	3	32	24	56	6	4	10	5	4	9	43	32	75
Feed management	3	28	25	53	4	3	7	8	7	15	40	35	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													
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	3	12	34	46	4	8	12	5	12	17	21	54	75

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
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													
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													

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
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	2	24	12	36	3	2	5	5	4	9	32	18	50
Formation and Management of SHGs	1	8	5	13	3	2	5	4	3	7	15	10	25
Mobilization of social capital	1	8	7	15	2	2	4	4	2	6	14	11	25
Entrepreneurial development of farmers/youths	2	22	20	42	2	2	4	3	1	5	27	23	50
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	32	289	236	525	66	45	8	119	87	69	157	442	358

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													

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
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
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													

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													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
TOTAL													

G) Consolidated table (ON and OFF Campus)

i. Farmers& Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	2	16	12	28	8	2	10	7	5	12	31	19	50
Resource Conservation Technologies													
Cropping Systems	2	18	12	30	5	4	9	6	5	11	29	21	50
Crop Diversification	1	8	5	13	3	2	5	4	3	7	15	10	25
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	2	17	12	29	5	4	9	8	4	12	30	20	50
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops	2	22	14	36	4	5	9	3	2	5	29	21	50
Off-season vegetables													
Nursery raising													
Export potential vegetables	1	8	5	13	3	2	5	4	3	7	15	10	25
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	1	9	7	16	3	2	5	2	2	4	14	11	25
Others, if any (Cultivation of Vegetable)	2	18	15	33	4	2	6	6	5	11	28	22	50
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													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, 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													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
IV. Livestock Production and Management													
Dairy Management	2	17	15	32	4	4	8	7	3	10	28	22	50
Poultry Management	2	22	12	34	3	3	6	6	4	10	31	19	50
Piggery Management													
Rabbit Management													
Disease Management	3	32	24	56	6	4	10	5	4	9	43	32	75
Feed management	3	28	25	53	4	3	7	8	7	15	40	35	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													
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	3	12	34	46	4	8	12	5	12	17	21	54	75
Location specific drudgery reduction technologies													
Rural Crafts													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
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													
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													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics	2	24	12	36	3	2	5	5	4	9	32	18	50
Formation and Management of SHGs	1	8	5	13	3	2	5	4	3	7	15	10	25
Mobilization of social capital	1	8	7	15	2	2	4	4	2	6	14	11	25
Entrepreneurial development of farmers/youths	2	22	20	42	2	2	4	3	1	5	27	23	50
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	32	289	236	525	66	45	8	119	87	69	157	442	358

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	1	5	3	8	2	1	3	2	2	4	9	6	15
Bee-keeping	1	7	3	10	1	1	2	2	1	3	10	5	15
Integrated farming													
Seed production	1	4	3	7	1	1	2	4	2	6	9	6	15
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	1	3	2	5	2	2	5	4	2	6	9	6	15
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	5	4	9	1	1	2	2	2	4	8	7	15

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
Ornamental fisheries													
Enterprise development	2	10	7	17	3	2	5	4	4	8	17	13	30
Para vets													
Para extension workers													
Composite fish culture													
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													
TOTAL	7	34	22	56	10	8	19	18	13	31	62	43	105

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													
Value addition	1	3	2	5	1	1	2	2	1	3	6	4	10
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	1	4	2	6	-	1	1	1	2	3	5	5	10
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production	1	3	2	5	1	1	2	2	1		6	4	10
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production and use of organic inputs													
Gender mainstreaming through SHGs													
TOTAL	3	10	6	16	2	3	5	5	4	6	17	13	30

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

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	

*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
							Male			Female			Total				
					PF/RY/EF		Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	

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

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	2	62	38	100	14	2	1	3	64	39	103
KisanMela	1	72	78	150	12				72	78	150

KisanGhosthi											
Exhibition	3										
Film Show											
Method Demonstrations											
Farmers Seminar											
Workshop											
Group meetings											
Lectures delivered as resource persons											
Advisory Services											
Scientific visit to farmers field	86	66	20		-				66	20	86
Farmers visit to KVK	385	312									
Diagnostic visits	12	9	3						10		10
Exposure visits	1	10									
Ex-trainees Sammelan											
Soil health Camp											
Animal Health Camp	2	70	42		13	3			73	42	115
Agri mobile clinic											
Soil test campaigns											
Farm Science Club Conveners meet											
Self Help Group Conveners meetings											
MahilaMandals Conveners meetings											
Celebration of important days (Agril. Education Day, Jai Kisan Jai Vigyan, MahilaKisan Divas, Women in Agriculture Day, World Food Day, World Meteorological Day, World Soil Day)	7	268	232	16					268	232	500
Sankalp Se Siddhi											
Swatchta Hi Sewa	2	78	32						78	32	110
MahilaKisan Divas	1		50	12					50	12	62
Research – Extension interface meeting	10		168	18	5				168	18	186
Group meeting	8		140	110	16				140	110	250
Total	520	947	803	406	60	5	1	3	989	583	1572

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	7
Radio talks	2
TV talks	
Popular articles	
Extension Literature	
Other, if any	
Lectures delivered as resource person	14

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
Dhaincha	Local	2.0	4000				
Grand Total		2.0	4000	1	2	7	10

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							
Onion Seedling	Bhima Super	151030	37750	1	4	7	12
Chilli Seedling	Utkal Ava	590	440	-	1	2	3
Brinjal Seedling	Utkal Keshari	5500	4125	2	4	5	11
Tomato	Utkal Raja	3700	2775	1	1	2	4
Cauliflower	Madhuri	50	38	-	2	2	4
Drumstick	PKM-1	127	635	2	3	15	10
Papaya	Red Lady	1000	10000	2	5	9	16
Fruits							
Mango							
Guava							
Lime							
Papaya							
Banana							
Others							

Ornamental plants							
Medicinal and Aromatic							
Plantation							
Spices							
Turmeric							
Tuber							
Elephant yams							
Fodder crop saplings							
Forest Species							
Others, pl.specify							
Total		161997	55763	8	20	42	60

Production of Bio-Products

Name of product	Quantity Kg	Value (Rs.)	No. of Farmers benefitted			
			SC	ST	Other	Total
Bio-fertilizers	830	5810	2	4	10	16
Bio-pesticide						
Bio-fungicide						
Bio-agents						
Others, please specify. Vermin	1 Kg	500	-	1	3	4
Total	**831**	**6310**	**2**	**5**	**13**	**20**

Production of livestock materials

Particulars of Live stock	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							
Other, please specify							
Poultry							
Broilers							
Layers							
Duals (broiler and layer)	Vanaraja	1234	68800	26			
Japanese Quail							
Turkey							
Emu							
Ducks	Khaki Campbell	200	8000	10			
Others (Pl. specify)							
Piggery							
Piglet							
Hog							
Others (Pl. specify)							

Fisheries				
Indian carp				
Exotic carp				
Mixed carp				
Fish fingerlings				
Spawn				
Others (Pl. specify)				
Grand Total		1434	76800	

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

i) Name of Seed Hub Centre:

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

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2018	Dhaincha	Local	2.0	1.0	2.0	C/S
Rabi 2018-19	-	-	-	-	-	-
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	1302460	--	--	--	--
2017-18	1223800	--	--	--	--
2018-19	1168800	--	--	--	--

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				
Seminar/conference/ symposia papers				
Books				
Bulletins				
News letter	KVK News Letter	Dr. Jyotirmayee Udgta, Sri Monoj Kumar Barik	500	500
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature	➢ Improved method of Greengram Cultivation (Urnata Pranalire Muga chasa)	Dr. Jyotirmayee Udgta, Sri Monoj Kumar Barik	500	500
	➢ Poultry bird – Kadaknath rearing (Kadaknath-Nua Prajati, Nua Katha)	Dr. Jyotirmayee Udgta, Dr. Suman Kumari Joshi	500	500
Technical reports		Dr. Jyotirmayee Udgta, Sri Monoj Kumar Barik Dr. Suman Kumari Joshi	16	16
Electronic Publication (CD/DVD etc)				
TOTAL	19		1516	1516

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Zonal Workshop of KVKs	Zonal Workshop of KVKs	Dr. Jyotirmayee Udgata, Sr. Scientist & Head	26.05.2018 to 27.05.2018	OUAT, Bhubaneswar
2.	PFMS workshop	PFMS workshop	Dr. Jyotirmayee Udgata, Sr. Scientist & Head	22.06.2018 to23.06.2018	OUAT, Bhubaneswar
3.	NICRA Zonal workshop	NICRA Zonal workshop	Dr. Jyotirmayee Udgata, Sr. Scientist & Head	27.06.2018 to 28.06.2018	ATARI, Kolkata
4.	Orientation training programme on "Operational modalities for KVK	Orientation training programme on "Operational modalities for KVK	Dr. Jyotirmayee Udgata, Sr. Scientist & Head	09.07.2018 to 11.07.2018	OUAT, Bhubaneswar

5.	State level pre seasonal workshop- Rabi campaign 2018	State level pre seasonal workshop- Rabi campaign 2018	Dr. Jyotirmayee Udgata, Sr. Scientist & Head	14.11.2018 To16.11.2018	OUAT, Bhubaneswar
6.	NICRA workshop	NICRA workshop	Dr. Jyotirmayee Udgata, Sr. Scientist & Head	21.12.2018 to 22.12.2018	KVK, Malda West Bengal
7.	National seminar on role of women in Agriculture production & marketing	National seminar on role of women in Agriculture production & marketing	Dr. Jyotirmayee Udgata, Sr. Scientist & Head	08.01.2019 to 09.01.2019	OUAT, Bhubaneswar
8	State Level Orientation Training to implement the 2nd component of " KALIA SCHEME " Bhubaneswar	State Level Orientation Training to implement the 2nd component of " KALIA SCHEME " Bhubaneswar	Dr. Jyotirmayee Udgata, Sr. Scientist & Head	14.02.2019	Govt. of Odisha, Bhubaneswar
9	Training on "On farm water management technologies for improving water productivity"	Training on "On farm water management technologies for improving water productivity"	Sri Jadunath Hembram Scientist (Agronomy)	21-24 January 2019	Bhubaneswar
10	ToT programme organised by ASCI	ToT programme organised by ASCI	Sri Jadunath Hembram Scientist (Agronomy)	18-20 September 2018	ATARI, Kolkata
11	ToT programme organised by ASCI	ToT programme organised by ASCI	Sri Prabhanjan Mishra Scientist (Horticulture)	18-20 September 2018	ATARI, Kolkata

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

Name of farmer	Smt. Nalini Patel
Address	Village- keldamal Block-kolabira Dist- jharsuguda Odisha-768202
Contact details (Phone, mobile, email Id)	9668172971
Landholding (in ha.)	.0 ha Irrigated-2.0 ha (borewell with fertigation)
Name and description of the farm/ enterprise	Banana Cultivation and Post harvest management in Banana
Economic impact	Net Income Rs.515300/-
Social impact	
Environmental impact	
Horizontal/ Vertical spread	12 villages

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

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology

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

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

b. Give details of organic farming practiced by the farmer

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

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

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
1	➢ PRA method	Identification of problems, problem analysis, Databse formation and data collection.
2	➢ Farmers interaction and group discussion	
3	➢ Training need assessment	
4	➢ Questionnaire development	

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

Sl. No	Name of the Equipment	Qty.
1	Automatic Nitrogen Analyzer with digestion unit	1
2	MridaParikshak soil testing kit	2
3	Precision Analytical Balance	1
4	pH, EC, TDS meter	1
5	Digital soil moisture meter	1
6	Digital balance	1
7	Flame Photometer	1
8	Spectro Photometer	1
9	Double distillation unit	1
10	DAPS power supply	1
11	Rotary Shaker	1
12	GPS set	1

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	Through soil	Total			

testing kit/labs	testing laboratory				
--	30	30	148	7	--

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	Farmers Interaction, Exhibition	250	2	Dr. Pushpesh Pujari, DDA, Jharsuguda	148	250

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

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

3.13. Technology week celebration

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

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

No of student trained	No of days stayed
6	--

ARS trainees trained	No of days stayed
--	--

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

Date	Name of the person	Purpose of visit
31.08.18	Sj. JualOram, Hon'ble Minister Tribal Affairs, Govt. of India	Review of KVK activities
29.12.18	Prof. Pravat Kumar Roul, Dean Extension Education, OUAT, BBSR	Review and monitoring of KVK activities
31.08.18	Dr. AvijitHaldar, Principal Scientist, ICAR-ATARI, Kolkata	Attended the visit of Hon'ble minister
31.08.18	Dr. Mahamaya Prasad Nayak, JDE, DEE,OUAT, Bhubaneswar	Attended the visit of Hon'ble minister
17.12.18	Sri BibhutiBhusan Pattanaik, District Magistrate and Collector, Jharsuguda	Attended 14th SAC meeting
17.12.18	Dr. MonaranjanMahapatra, JDE,	Attended 14th SAC meeting

	DEE, OUAT, BBSR	
29.12.18	Dr. M.K Pani, Additional, Secretary, Ag. And FW	Review of KVK activities
10.01.19	Dr. Ajay Pattanaik, Assessor, ASCI	Assessing the ASCI trainees (Mushroom Grower)
19.03.19	Dr. DinabandhuSatapathy, Assessor, ASCI	Assessing the ASCI trainees(Vermicompost Producer)

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)
Improved method of Groundnut cultivation with HYV.	20	85	36000	42500
Drought tolerant paddy variety Sahabhagidhan	20	91	18000	21000
Improved method of Greengram cultivation with HYV.	20	72	22500	25000
Weed management in paddy	20	95	18500	22300
Improved method of Sesame cultivation with HYV.	20	72	24000	30200
Varietal replacement of Potato variety-Kufri Surya	20	55	64000	85000
Backyard Poultry rearing - Vanaraja	20	72	450/bird	750/bird
Mushroom production techniques	20	45	160/bed	260/bed

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
Drought tolerant paddy variety Sahabhagidhan	350 ha

Give information in the same format as in case studies

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

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
1	Drought tolerant paddy variety Sahabhagidhan	Adoption percentage- 65%, Horizontal spread-350 ha	Yield -30 q/ha

4.4. Details of innovations recorded by the KVK

Thematic area	Agriculture Engineering
Name of the Innovation	Power tiller operated Paddy Thresher

Details of Innovator	Name of farmer: SushantaNaik Address: Ghantamal, Po-Jhirlapalli, Block- Kolabira, Dist-Jharsuguda, Contact No.:9777468457 Age-60 Years, Education-matriculate,Land Holding-5.0 acre.
Back ground of innovation	Threshing of paddy is expensive by using paddy combine harvester and dependent on availability of harvester in time.
Technology details	Power tiller operated Paddy Thresher is made up of wood, which is on an average weight of 3.0 qntl. and drawn by power tiller for threshing of paddy.
Practical utility of innovation	It can be made with local available materials , simple and easy to operate.

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Mushroom Spawn and Mushroom production
Name & complete address of the entrepreneur	Ms.SunitaNaik
Role of KVK with quantitative data support:	At-Tangarpali,Talpatia Jharsuguda
Timeline of the entrepreneurship development	2014-15 :- Taken training from KVK on mushroom production 2015-16:- Conducted demonstration on Mushroom production 2016-17:- Taken training on spawn production 2017-18:- Started entrepreneurship on mushroom production. 2018-19:- Started Mushroom Spawn Production
Technical Components of the Enterprise	Mushroom production technique – Bed preparation, substrate treatment and marketing. Spawn production technique- Inoculation, mother culture preparation, bottling and marketing
Status of entrepreneur before and after the enterprise	Net profit- Before –Rs.130000/- per year, After- Rs.330000/- per year
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Raw materials availability- adequate Labour availability- Yes consumer preference- High Marketing the product- Local Market.
Horizontal spread of enterprise	22 villages

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Regional Research & Technology Transfer Station, Chiplima, Sambalpur	Resource person, Technology and technical assistance
Central Horticultural Experiment station, Bhubaneswar	Agro Inputs and Technical assistance
Central Tuber Crop Research Institute, Bhubaneswar	Agro Inputs and Technical assistance
National Rice Research Institute, Cuttack	Resource person, Technology and technical assistance, Agro Input supply
Department of Agriculture, Jharsuguda	Programme implementation ,convergence mode action

	, resource person, technical assistance, funding agency, input supply
Department of Horticulture, Jharsuguda	Programme implementation, Resource person, technical assistance, funding agency, input supply
Department of Fishery, Jharsuguda	Programme implementation , convergence mode action ,Resource person, technical assistance, funding agency, input supply
Watershed Development, Jharsuguda	Programme implementation , convergence mode action ,Resource person, technical assistance and assistance in infrastructure development
Department of Animal Husbandary, Jharsuguda	Programme implementation , convergence mode action , Resource person, technical assistance, Agro input supply
Odisha State seed corporation, Bargarh	Agro Input supply, seed certification, procurement of seed.
Odisha agro Industries corporation, Jharsuguda	Supply of farm implements, Agro inputs.
NABARD, Sundergarh	Farmers club formation, Resource person,
Lead bank, SBI, Jharsuguda	Suggestion in formation of technical programmes, Crop insurance.
MARKFED, Jharsuguda	Agro Input supply, convergence mode action
TRL-SBI-RSETI, Belpahar	Resource person, Technical assistance for capacity building
SEWA, Kolabira, (NGOs)	Programme implementation, convergence mode action, Resource person, Technical guidance
BES, Talpatia, Jharsuguda, (NGOs)	Programme implementation, convergence mode action, Resource person, Technical guidance
Access, Jharsuguda, (NGOs)	Programme implementation, convergence mode action, Resource person, Technical guidance
Central Poultry farm, Chiplima	Programme implementation, convergence mode action, Resource person, Technical guidance
Department of Social Welfare , Jharsuguda	Resource person and technical guidance

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.)

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.	Poultry unit	2013	18	Vanraj	Chicks	1234 Nos.	--	68800	
	Duck unit			Khaki Campbell	Duckling	200 Nos.		8000	
2.	Poly House	2013	120	HYV & Local	Seedling & saplings	161997 Nos.	--	55763	
3.	Vermicompost unit	2013	18	--	Vermicompost and Vermin	830 kg	1500	5810	
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Onion	15.10.18	14.2.18	0.04	Bhima Super	Non seed	1.5	--	1500	
Sweet corn	07.08.18	25.10.18	0.04	Sugar-75	Non seed	0.7	--	1400	

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	830	1500	5810	
2	Vermin	1		500	

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

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

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
2018-19 (December)	20	25	
February	20	25	
Total :	40	50	

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes
No. of staffquarters:6
Date of completion: 2012
Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI*
April	√	√	√	√	√	
May	√	√	√	√	√	
June	√	√	√	√	√	
July	√	√	√	√	√	
August	√	√	√	√	√	
September	√	√	√	√	√	
October	√	√	√	√	√	
November	√	√	√	√		
December	√	√	√	√		
January	√	√	√	√		
February	√	√	√	√		
March	√	√	√	√		

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Contingency	State Bank of India	Main Road, Jharsuguda	11346748214
Revolving Fund	State Bank of India	Main Road, Jharsuguda	30938306848

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

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

i) Critical input			33565		
ii) TA/DA/POL etc. for monitoring					
iii) Extension Activities (Field day)			4478		
iv)Publication of literature					
Total	100000		38043		61957

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2013
	Kharif	Rabi	Kharif	Rabi	
i) Critical input			90836		
ii) TA/DA/POL etc. for monitoring					
iii) Extension Activities (Field day)			11192		
iv)Publication of literature			9968		
Total	**178800**		**111996**		**68804**

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	--	--	--
2	Traveling allowances	70000	70000	70000
3	Contingencies			
A				
B		1100000	1098800	1098800
C				
D				
E				
F				
G				
H				
I				
J	Swachhta Expenditure	--	--	--
TOTAL (A)		1170000	1168800	1168800
B. Non-Recurring Contingencies				
1	--	--	--	--
2				
3				
4				
TOTAL (B)		1170000	1168800	1168800
C. REVOLVING FUND		100000	100000	80719
GRAND TOTAL (A+B+C)		1170000	1168800	1168800

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	1.35487	1.75974	0.54525	256936
2016-17	2.56936	1.63223	0.77495	0 (Rs.3.09664 refunded to DEE)
2017-18	0	1.92731	2.02109	0 ((Rs.1.90622 refunded to DEE)
2018-19	0	2.18749	0.80719	0

7.6. (i) Number of SHGs formed by KVKs-Nil
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities
- Promotion of income generation activities and providing technical support

(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both
World Soil Day	1	Rabi	√	--	--
Doubling the Farmers income	5	Both Kharif and Rabi	√	--	--
CFLD on Greengram & Sesame	1	Summer	√		

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)
BPH	Paddy	November	128	7	66
Stem Borer	Paddy	November	410	10	186

8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidity rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)
FMD	Cattle	August	5	50	--

9.1. Nehru YuvaKendra(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	Resource Person	No. of participants	Registration (crop wise)

the programme				
			Name of crop	No. of registration

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

Type of message	No. of messages	No. of farmers covered
Crop	7	
Livestock	2	
Fishery	1	
Weather	2	
Marketing	1	
Awareness	2	
Training information	1	
Other	1	
Total	**17**	**25000**

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	*1085*
2.	No. of farmers registered in the portal	*200*
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
24.10.18	Cleaning of villages and awareness programme on use of Toilet
25.11.18	Cleaning of villages and awareness programme
25.01.19	Cleaning of demonstration unit, instructional farm
In 1st week of every month	Cleaning of office, campus and farm

b. Details of Swachhta activities with expenditure

Activities	**Number**	**Expenditure (in Rs.)**
1. Digitization of office records/ e-office	12	
2. Basic maintenance	10	

3. Sanitation and SBM	10	
4. Cleaning and beautification of surrounding areas	5	
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	7	
6. Used water for agriculture/ horticulture application	1	
7. Swachhta Awareness at local level	10	
8. Swachhta Workshops	--	
9. Swachhta Pledge	--	
10. Display and Banner	2	
11. Foster healthy competition	--	
12. Involvement of print and electronic media	--	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	7	
14. No of Staff members involved in the activities	10	
15. No of VIP/VVIPs involved in the activities	4	
16. Any other specific activity (in details)	--	
Total	**78**	

9.6. Observation of National Science day

Date of Observation	Activities undertaken
--	--

9.7. Programme with SeemaSurakshaBal/ 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 Doordarshan (Yes/ No)	Coverage by other channels (Number)
				MLAs Attended the programme	Chairman ZilaPanchayat	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	Cleaning of villages and awareness programme on use of Toilet	1	50	--	-
2.	Cleaning of Railway station	--	20	1	--
3.	Cleaning of Public place-Temple	--	20	--	--

9.11. Details of MahilaKisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Road Show	1	50	--	--

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1.	Smt. PadmabatiBhoi	At-Banjari, Block-	Mushroom Production

		Lakhanapur 9668587758	
2.	Sri Ashok Naik	At-Durlaga, Jharsuguda 9938564313	Integrated Farming System
3.	Sri SusantaNaik	At-Ghantamal,Block-Kolabira Jharsuguda 9777468457	Innovative Framer

9.13. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Hiring charges of farmers hostel and conference hall	53000	NGOs & Dept. of Horticulture,

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
2011	CRIDA, Hyderabad	Not 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	Jharsuguda	Disease and pest management	10	225	Diagnostic visit, field visit to the BPH and Stem borer affected area and suggestion given for its management.

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 otherprogrammes (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 outcomeunder 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 under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
In-situ moisture conservation through ridge and furrow method in cow pea var. Kashikanchan	23	23	4.0	3	-	-	-	20	-	23	-	23	Increases water use efficiency of crop through ridge & furrow & increase in soil health
In-situ moisture conservation through ridge and furrow method in Radish.	21	21	2.0	1	-	-	-	20	-	21	-	21	Increases water use efficiency of crop through ridge & furrow & increase in soil health.
Green manuaring (dhaincha) in Paddy	15	15	6.0	-	-	-	-	15	-	15	-	15	Increasing soil health for better crop growth & helps in sustainable crop production
Ridge & Furrow method in Okra	10	10	2	1	-	-	-	9	-	10	-	10	Increases water use efficiency of crop through ridge & furrow & increase in soil health.
Desilting of Water harvesting structure	1	1	1.5	-	-	-	-	18	7	18	7	25	
mushroom cultivation in shed net house	1	1	-	-	10	-	-	-	-	-	10	10	Mushroom cultivation in 75% shednet to maintain the require temperature

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
													& light intensity

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	
Demonstration on short duration Green gram variety-IPM 02-03	4	-	--	-	-	10		10	-	10	Use of residual moisture, growing leguminous crops like-short duration Greengram variety- IPM 02-3
Drought tolerant paddy var. Sahabhagidhan	6	5	-	-	-	25	-	30	-	30	In high temperature & less moisture condition , use of drought tolerant variety increases yield**.**
Crop Diversification by of Hybrid Maize	4	5	-	-	-	17	-	22	-	22	Maize having capacity to grow in moisture stress condition can replace paddy areas in upland for higher income
Up-scaling of Paddy var-Pratikshya	6.0	7	-	-	-	19	-	26	-	26	Tolerant to pest and diseases due to climate variability
Crop diversification by Sweet corn variety- Sugar-75	0.8	-	-	-	-	10	-	10	-	10	Sweet corn have capacity to grow in moisture stress condition replace maize in upland for higher income
Cultivation of Triple	0.4	-	-	-	-	10	-	10	-	10	Due to thick skin

disease resistant Tomato var. Arka Rakshyak											keeping quality is high in ambident temperature , triple disease tolerant variety
Income generation activities (Marigold cultivation by women SHGs)	3 SHGs	-	-	-	-	-	3 SHGs	-	3 SHGs	3 SHGs	Cultivation of Marigold for income generation.
Vermicomposting	2	-	-	-	-	2	-	2	-	2	Recycle of waste materials and production of compost , Improve soil organic matter, soil moisture, provide organic micro nutrient
Income generation activity (Oyster mushroom cultivation)	1 SHG	-	10	-	-	-	-	-	10	10	Cultivation of paddy straw and oyster mushroom for income generation.

Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
Cementing floor of Cattle	6	2	-	-	-	-	-	2	-	2	-	2	Construction of cementing with well drainage system. Prevention from diseases.
Breed up gradation by introduction of Black Bengal buck.	2	2	-	-	-	-	-	-	2	-	2	2	Breed up gradation with breed Black Bengal buck tolerant to heat stress.
Use of Vitamin mineral mixture Minfa Gold in cow for better	10	5		-	-	-	-	4	1	4	1	5	Feeding of Mineral mixtures

milk secretion													blocks along with health management
Rearing of Backyard poultry variety Rainbow rooster	250	10		4	-	-	-	5	1	9	1	10	The Rainbow rooster is adaptable to extreme temperature condition
Duck rearing Khaki campbell	50	10		1				9		10	-	10	The Duck-Khaki Campbell can be reared in less water and high temperature condition.
Azolla unit	8	2						2	-	2	-	2	Milk yield increase.

Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	
Custom hiring centre	1	-	-	-	-	-	19		19		19	

Capacity building

Thematic area	No of Courses	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T
Organic farming	1	-	-	-	-	12	13	12	13	25
Vermi composting	1					14	11	14	11	25
Soil sample collection Technique	1	5	1	1	4	3	11	9	16	25
Income generation activity(Marigold cultivation)	1	-	-	-	-	11	14	11	14	25
Mushroom cultivation	1	-	-	-	-	12	13	12	13	25
Bio- fertilizer	1	-	-	-	-	13	12	13	12	25

application										
Off- season Vegetable Cultivation	1	-	-	-	-	18	7	18	7	25
Value addition	1	-	-	-	-	-	15	-	15	15

Extension activities

Thematic area	No of activities	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T
Exposure visit of farmers	1	1	-	-	-	9	-	10	-	10
Field day on drought tolerant Rice var. Sahabhagidhan	1	-	-	-	-	29	21	29	21	50
Field day on Ridge & furrow method in Cowpea	1	8	4	3	9	9	17	20	30	50
Field Day on Backyard Poultry	1	-	2	1	-	24	23	25	25	50
Field day on crop diversification by hybrid Maize	1	-	-	-	2	26	22	26	24	50
Awareness campaign on Swachha Bharat Abhiyan	1	-	-	-	-	28	12	28	12	40
Animal Health camp	1	-	-	-	-	35	21	35	21	56
Kissan Mela	1	11	10	2	8	59	60	72	78	150

13. Awards/Recognition received by the KVK

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

Award received by Farmers from the KVK district

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

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

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

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

16. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1	Mango Progeny Nursery	0.6	Juvenile Phase	53069	--	12	--
2	Mango Orchard	1.0	Juvenile Phase	35382	--	24	--
3	Tissue culture pomegranate orchard	0.2	Flowering stage	20217	--	11	--
4	Mixed fruit orchard	0.2	Flowering stage	17690	--	06	--
5	Poultry unit	1234 nos	1234 Nos.	14050	68800	12	--
6	Duckery Unit	200 nos.	200 nos	5520	8000	5	--
7.	Pineapple on RWHS dyke	500 nos.	Vegetative growth	2500	--		--
8.	Vermicompost unit	830 kg		3000	7850	16	--
9	Vermin	1 kg		200	800		--

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	Cultivation of Cow pea, var-KasiKanchan	Cultivation of Cow pea, var-KasiKanchan	70200	5	
2	FLD on Paddy variety Manaswini	INM in paddy Azosprillum and PSB @ 5kg/ha +Znso4-25kg/ha	46400	16	
3	Demonstration on potato var. K. Jyoti	INM in Potato-Azatobactor and PSB @ 2.5kg/ha.+ 10 kg mixed micro nutrient/ha	98100	8	
4	Rearing of Vanaraja poultry	Vaccination of Vanaraja Bird	420/bird	22	

		rearing 50 Chicks /6 month			
5	Cultivation of of Greengram var. IPM-02-14	INM in Greengram IPM-02-14 + Rhizobium treatment	23300	14	
6	FLD on Paddy variety Sahabhagidhan	Weed management in paddy by application of Pretilachlor 1250 ml/ha within 48 hr of transplanting or Post emergence application of Bispyribac sodium @ 250ml /ha.	24300	25	
7	FLD on Paddy variety Manaswini	Weed Management In Paddy, Pre emergence application of Pretilachlor@1250ml/ha or Post emergence Bispyribac sodium @ 250ml /ha	40800	6	
8	Backyard poultry rearing breed-Vanaraj	Vanaraja Bird rearing 50 Chicks/6 month-Low cost poultry house.	360	12	
9.	FLD on Potato-KufriJyoti	INM in potato-STBF appln+ 10 kg mixed micro nutrient/ha (Zn, Cu,Mg,Fe)	100800	10	

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

	Database prepared/ covered for		**KVK level Committee**		**Various activity conducted for farmers**
Phase	**Total no. of villages**	**Total no. of farmers**	**Date of formation**	**Name of members**	
I (up-to 15.03.2018)	--	--	January 2018	All line department officials of Jharsuguda with chairmanship of DDA, Jharsuguda	➢ Farmer interaction ➢ Group discussion ➢ Meeting
II (up-to 24.04.218)	356	7820			
Total	356	7820			

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)
31.08.19	Sj. JualOram, Hon'ble Minister Tribal Affairs, Govt. of India	Tribal Affairs, Govt. of India	➢ Appreciated the activities of KVK ➢ Appreciated the demo units and KVK well maintained

Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)
			KVK campus ➢ Pleased with the NICRA village activities

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	Mushroom Grower	Sri Prabhanjan Mishra	11.12.18	10.01.19	20	Y	164600
	Vermicompost Producer	Sri JadunathHembram	06.02.19	19.03.19	20	Y	164600

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	

21. Information on NARI Project(if applicable)

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

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

Krishi KalyanAbhiyan- 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 KalyanAbhiyan- 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
-	-	-	-	-	-

Sr. Scientist & Head
KVK, Jharsuguda

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

***