## PROFORMA FOR ANNUAL REPORT 2019 (January-December 2019)

### 1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Tel	ephone	E mail
	Office	FAX	
Krishi Vigyan Kendra, Ganjam	9437104867		kvkganjam1.ouat@gmail.com
At: Benakunda			
P.O: Dihapadhala			
Via: Tanarada			
Dist: Ganjam Pin : 761 140 Orissa			

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

Address	Telephone		E mail
	Office	FAX	
Vice-Chancellor, OUAT, Bhubaneswar- 751003 Orissa University of Agriculture & Technology	0674- 2392677		vcouat@gmail.com

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

Name	Telephone / Contact				
	Residence Mobile Email				
Dr. Swagatika Sahoo		7008357580	Swagatika_sahu@rediffmail.com		

#### 1.4. Year of sanction of KVK: 1985

# 1.5. Staff Position (as on 1<sup>st</sup> January, 2019)

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. Swagatika Sahoo	Senior Scientist & Head	Fishery Science	22320-39100 + AGP 8000 22320	17.05.2018	Permanent	
2	Subject Matter Specialist	Sri Prasanta Kumar Panda	Scientist	Plant Protection	15600-39100 + AGP 6000 25780	05.01.2007	Permanent	
3	Subject Matter Specialist	Sri Bishnupada Giri	Scientist	Horticulture	15600-39100 + AGP 6000 24850	17.09.2006	Permanent	
4	Subject Matter Specialist	Dr. Santosh Kumar Samantaray	Scientist	Agricultural Extension	15600-39100 + AGP 6000 21390	06-09-2012	Permanent	
5	Subject Matter Specialist	Smt. Anita Patro	Scientist	Home Science	15600-39100 + AGP 6000 22220	18.12.2009	Permanent	
6	Subject Matter Specialist	Dr.Sidhharth Ranabijuli	Scientist	Animal Science	15600-39100 + AGP 6000 20590	11.05.2012	Permanent	
7	Subject Matter Specialist	Sri Satyabrata Mangaraj	Scientist	Agronomy	15600-39100 + AGP 6000 15600	13.08.2018	Permanent	
8	Programme Assistant	Ms Shine Sree Dash	Programme Assistant	Forestry	9300-34800 + GP 4200 9300	30.08.2018	Permanent	
9	Computer Programmer	Sri Sitikantha Mishra	Programme Assistant	Computer Science	9300-34800 + GP 4200 16280	18.01.2006	Permanent	

10	Farm Manager	Vacant	-	-	-	-	-	
11	Accountant /	Vacant	-	-	-	-	-	
	Superintendent							
12	Stenographer	Miss	Steno-cum-	-	5200-20200	22.07.2015	Permanent	
		Priyadarshini	computer		+GP 2400			
		Ghadei	operator		5920			
13.	Driver	Sri Saroj Kumar	Driver-cum-	-	5200-20200	25.07.2007	Permanent	
		Biswal	mechanic		+ GP 1900			
					7970			
14.	Driver	Sri Gobinda	Driver-cum-	-	5200-20200	21.08.2008	Permanent	
		Gouda	mechanic		+ GP 1900			
					7400			
15.	Supporting staff	Sri Krushna	Peon-cum-	-	4750 -14680+	28.07.2008	Permanent	
		Chandra	watchman		GP1700			
		Pradhan			6290			
16.	Supporting staff	Sri Prakash	Peon-cum-	-	4750 -14680+	20.12.2007	Permanent	
		Chandra Gouda	watchman		GP1700			
					6500			

## 1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	1.5
2.	Under Demonstration Units	0.05
3.	Under Crops	10.0
4.	Orchard/Agro-forestry	2.00
5.	Others with details	6.45
	Total	20.00

Total area should be matched with breakup

# 1.7. Infrastructure Development:

A) Buildings and others

S.	Name of	Not yet	Completed	Completed	Completed	Totally	Plinth area	Under use	Source of
No.	infrastructure	started	up to plinth level	up to lintel level	up to roof level	complete d	(sq.m)	or not*	funding
1.	Administrative Building					Dilapidat ed	352.28		
2.	Farmers Hostel					Complet ed	139.91		
3.	Staff Quarters (6)					Dilapidat ed	1200		
4.	Piggery unit								
5	Fencing					Complet ed	2601m		
6	Rain Water harvesting structure								
7	Threshing floor					Complet ed	222.96		
8	Farm godown					Complet ed	37.4		
9.	Dairy unit								
10.	Poultry unit					Complet ed	27		
11.	Goatary unit								
12.	Mushroom Lab					Complet ed	33		
13.	Mushroom production unit								

14.	Shade house				180	
15.	Soil test Lab			Complet ed	23.4	
16	pond			Complet ed	613.16	

<sup>\*</sup> 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
Tata Sumo	3.4.2003	431000/-	317035	Condemned
Hero Honda	31.3.2007	41899/-	27526	Working

# C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Mrida Parikshyak	2016	85000	running	ATARI
Mrida Parikshyak	2017	85000	running	ATARI
b. Farm machinery				
c.AV Aids				
Computer and accessories	2009-10	Central	Working	ATARI

		purchased		
Printer	2008-09, 2010- 11		Working	ATARI
Xerox machine	2016-17	49000	Working	ATARI
Fax machine	2007-08		Not working	ATARI
Colour printer	2017-18	6500	Working	ATARI
Digital camera	2015-16	21000	Working	ATARI
LCD projector	2016-17	35000	Working	ATARI

# D) Farm implements

Year of purchase	Cost (Rs.)	Present status	Source of fund
1995		Damaged	
2016-17		working	
2016-17		Good condition	
2010		Good condition	
2011-12		Good condition	ATARI
2016-17	40000	Good condition	
2010-11		Good condition	
2007-08		Damaged	
2016	40000	Running	ATARI
	purchase 1995 2016-17 2016-17 2010 2011-12 2016-17 2010-11 2007-08	purchase  1995 2016-17 2016-17 2010 2011-12 2016-17 40000 2010-11 2007-08	purchase         Cost (Rs.)         Present status           1995         Damaged           2016-17         working           2016-17         Good condition           2010         Good condition           2011-12         Good condition           2016-17         40000         Good condition           2010-11         Good condition           2007-08         Damaged

# 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.	22.11.2019	30	BPH tolerant paddy var. may be tested	Will be conducted in current year action plan	
			YMV tolerant greengram variety may be popularised	1	
			Post emergence weedicide in Maize may be popularized	1	
			Thrust should be given to increase productivity of Fingermillet	Will be conducted in current year action plan	
			New sp. of fish- Amur carp may be evaluated	Will be conducted in current year action plan	
			Wilt tolerant var. of tomato may be popularized	Will be conducted in current year action plan	
			Wilt management in Brinjal may be popularized	Will be conducted in current year action plan	
			Stress should be given for better remunerative price to farmer	Will be conducted in current year action plan	
			Trials on YMV management in Okra may be conducted	Will be conducted in current year action plan	
			BPH tolerant paddy var. may be tested	Will be conducted in current year action plan	

<sup>\*</sup> 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 (2019)

Sl.	Item	Information
no.		
1	Major Farming system/enterprise	Rice-Greengram, Rice-Blackgram, Rice-Vegetable, Vegetable-Vegetable, Rice-Fallow
2	Agro-climatic Zone	East and South Eastern Coastal Plain Zone, North Eastern Ghat Zone
3	Agro ecological situation	Rainfed Red and Laterite, Black, medium rainfall and irrigated, Alluvial, low rainfall and irrigated
4	Soil type	Alluvial, Red, Laterite
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Given below in table
6	Mean yearly temperature, rainfall, humidity of the district	Rainfall-1276 mm
7	Production of major livestock products like milk, egg, meat etc.	

Note: Please give recent data only

# Area, Productivity& production of Major crops of Ganjam district

Sl.No Name of the crop			Kharif			Rabi	
•		A (000ha)	Y (kg/ha.)	P (000MTS)	A (000ha.)	Y (kg/ha)	P (000MTS)
01	Paddy	251.32	2800	703.396			
02	Green gram	3.58	455	1.63	155.84	521	81.19
03	Ragi	45.0	895	40.28	0.94	1003	2.44
04	Black gram	16.38	466	7.63	32.80	468	15.35

05	Groundnut	11.40	1250	14.25	18.68	1928	36.02
06	Sesamum	11.63	414	4.81	14.57	420	6.12
07	Pigeonpea	13.6	934	12.7			
08	Maize	10.95	2282	27.66	0.93		
09	Horsegram				11.92	378	4.51
10	Sunflower				0.49	1115	0.55

# Area, Productivity& production of Major Horticulture crops of Ganjam district

Sl.No.	Name of the crop	Area ( In '000 ha)	Productivity (in Kg./ha)	Production (in '000 MT)
01	Brinjal	5.02	25750	129.16
02	Cabbage	1.51	27920	42.05
03	Cauliflower	2.41	14760	35.56
04	Okra	3.46	8760	30.33
05	Pea	0.34	9060	3.07
06	Chilli	5.42	1360	7.37
07	Tomato	4.42	12870	56.87

08	Onion	0.59	8650	5.11
09	Potato	0.36	15120	5.49
10	Sweet Potato	7.52	9780	73.55
11	Radish	0.54	11750	6.38

# 2.b. Details of operational area / villages (2019)

Village Name	Year of adoption	Block Name	Distance from KVK (Km)	Population	Number of farmers (having land in the village)
Padampur	2017-18	Sorada	48	1891	450
Phulasarapalli	2017-18	Aska	40	922	260
Lepa	2015-16	Jagannathprasad	30	332	75
A.barida	2016-17	Kabi suryanagar	54	6954	1670
Patulisahi	2017-18	Belaguntha	15	497	90

# 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
Padampur	Sorada	OFT, FLD, Training, field day, diagnostic field
		visit
Phulasarapalli	Aska	OFT ,FLD, Training, field day, diagnostic field
		visit
Lepa	Jagannathprasad	OFT ,FLD, Training, field day, diagnostic field

		visit
A.barida	Kabi	OFT ,FLD, Training, field day, diagnostic field
	suryanagar	visit
Patulisahi	Belaguntha	OFT ,FLD, Training, field day, diagnostic field
		visit

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	Bhanjanagar	Sorada	Padampur	Rice, Maize, Pigeonpea , Greengra m, Blackgra m, Sesamum, Ground nut,Vegeta ble	<ul> <li>Severe weed incidence in paddy</li> <li>Blast disease in paddy</li> <li>Low yield in arhar</li> <li>Use of traditional verities of green gram</li> <li>Improper nutrient management green gram</li> </ul>	<ul> <li>Varietal substitution</li> <li>weed management</li> <li>Pest &amp; diseases         management</li> <li>Integrated nutrient         management</li> <li>Targeting rice fallow</li> </ul>
2		Aska	Phulasara palli	Rice,Suga rcane, Blackgra m, Greengra m, Mustard,S esamum	<ul> <li>Severe weed incidence in paddy</li> <li>Low yield in mustard</li> <li>Use of traditional verities of green gram</li> <li>Improper nutrient management green gram</li> </ul>	<ul> <li>weed management</li> <li>Pest &amp; diseases         management</li> <li>Integrated nutrient         management</li> <li>Targeting rice fallow</li> <li>Varietal substitution</li> </ul>

3	Jagannathpra sad	Lepa	Rice, Maize, Pigeonpea , Greengra m, Blackgra m, Sesamum, Ground nut,Vegeta ble	<ul> <li>Severe weed incidence in paddy</li> <li>Low yield in arhar</li> <li>Use of traditional verities of green gram</li> <li>Improper nutrient management green gram</li> </ul>	<ul> <li>weed management</li> <li>Pest &amp; diseases         management</li> <li>Integrated nutrient         management</li> <li>Targeting rice fallow</li> <li>Varietal substitution</li> </ul>
4	Kabi suryanagar	A.barida	Rice, Blackgra m, Green gram, Groundnut	<ul> <li>Severe weed incidence in paddy</li> <li>Use of traditional verities of green gram</li> <li>Improper nutrient management in green gram</li> </ul>	<ul> <li>weed management in rice</li> <li>Pest &amp; diseases         management</li> <li>Integrated nutrient         management</li> <li>Targeting rice fallow</li> <li>Varietal substitution</li> </ul>
5	Belaguntha	Patulisahi	Rice, Greengra m, Blackgra m, Sesamum, Vegetable	<ul> <li>Use of traditional verities of green gram</li> <li>YMV infection in green gram</li> <li>Severe weed incidence in paddy</li> </ul>	<ul> <li>weed management in rice</li> <li>Pest &amp; diseases         management</li> <li>Integrated nutrient         management</li> <li>Targeting rice fallow</li> <li>Varietal substitution</li> </ul>

### 2.1 Priority thrust areas

	Hority unust areas
S. No	Thrust area
1.	Floriculture
2.	INM in Fruits & Vegetable
3.	Honey bee rearing
4.	HYV &wilt tolerant varieties
5.	Integrated fish f arming
6.	Processing and value addition
7.	Crop diversification
8.	Vaccination ,feed management in Cattle & Goat
9.	Low cost production technique
10.	Backyard poultry
11.	Mushroom cultivation
12.	Kid mortality & disease management
13.	Feeding management of cattle
14	Marketing awareness
15.	Pest Disease & weed management

# 3. <u>TECHNICAL ACHIEVEMENTS</u>

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

		(	OFT	FLD							
No. of tech	hnologies teste	d:		No. of technologies demonstrated:							
Numbe	Number of OFTs Number of farmers				per of FLDs		Number of farmers				
Target	Achieveme	Targ	Achievement	Target	Achievement	Target	Achievement				

	nt	et																					
			SC		ST		Oth	ers	To	tal					SC		ST		Oth	ners	Tot	al	
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
15	12	85	1	5	3		37	24	5	2	8	26	26	218	40	5	10	8	1	52	1	6	2
			6						6	9	5								0		5	5	1
																			3		3		8

		,	Trair	ning								Extension activities											
Number	of Courses	rses Number of Participants							Number	of activities		1	Num	ber	of p	artici	ipants	;					
Target	Achievem	Target	Acl	chievement					Target	Achieveme	Target	Achievement											
	ent								nt														
			SC		ST		Othe	rs	To	tal					SC		Si		Oth	ers	Tot	tal	
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
106	100	2270	2	12	11	8	79	39	1	6	1	300	286	6000	7	3	9	1	31	13	4	1	5
			5	5	0	0	7	8	1	0	7				9	3	8	4	58	02	0	6	7
			8						6	3	6				4	4					5	5	0
									5		8										0	0	0

	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 employments (self/ wage/ entrepreneur/ engaged a skilled manpower)													
Target	Achievemen t	SC			Target	Achievement	SC			ST		Others		Total							
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T

Seed production (q)	Planting material (in Lakh)

Target	Achievement	Target	Achievement

Livestock strains and fi	sh fingerlings produced (in lakh)*	Soil, water, plant, man	nures samples tested (in lakh)
Target	Achievement	Target	Achievement
		300	267

<sup>\*</sup> Give no. only in case of fish fingerlings

		Pu	blication by KVK	ŚS			
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper							
Seminar/conference/ symposia							
papers							
Books							
Bulletins							
News letter							
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature							
Technical reports							
Electronic Publication (CD/DVD							
etc)							
TOTAL							

#### 1 Achievements on technologies assessed and refined OFT-1

1.	Title of On farm Trial	Assessment of chemicals for control of pod borer in Sesamum
2.	Problem diagnosed	Damaged pod, low yield
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO <sub>1</sub> – spraying of Profenophos @ 1lt./ha TO <sub>2</sub> – spraying of Spinosad @ 165ml/ha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source : SLREC Proceeding, 2017
5.	Production system and thematic area	Integrated Pest Management
6.	Performance of the Technology with performance indicators	Damaged pod %, Larva per plant Yield, Net profit, BCR
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Field visit, Interaction, Group discussion, problem identified & prioritization

Thematic area: Integrated Pest Management

Problem definition: Damaged pod, low yield

TO<sub>1</sub> – spraying of Profenophos @ 1lt./ha TO<sub>2</sub> – spraying of Spinosad @ 165ml/ha

Technology No.	o. of	Yield component	Disease/	Yield	Cost of	Gross return	Net return	BC
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option	trials	Damaged pod %	Larva per plant	Test wt. (100 grain	insect pest incidence	(q/ha)	cultivation	(Rs/ha)	(Rs./ha)	ratio
		pou 70		wt.)	(%)		(Rs./ha)			
FP	7	18.6	6.1	-	-	6.8	30000	47600	17600	1.6
TO <sub>1</sub>	7	7.2	2.4	=	-	7.6	32000	53200	21200	1.66
$TO_2$	7	3.1	0.8	-	-	8.2	34000	57400	23400	1.68

### OFT-2

1.	Title of On farm Trial	Assessment of BPH tolerant varieties of rice (Rainfed/medium land- rice-Greengram
2.	Problem diagnosed	Chaffy grain, mortality of plant, low yield
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO <sub>1</sub> – Hasant TO <sub>2</sub> – Pooja
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source: OUAT, 2017
5.	Production system and thematic area	Integrated Pest Management
6.	Performance of the Technology with performance indicators	No.of BPH/hill, Chaffy grain% Yield, Net profit, BCR
7.	Final recommendation for micro level situation	Hasanta var. of Rice is tolerant to BPH & suitable to Rainfed medium land in Kharif season.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Field visit, Interaction, Group discussion, problem identified & prioritization

Thematic area: Varietal evaluation

Problem definition: Chaffy grain, mortality of plant, low yield

 $Technology\ assessed \hbox{:}\ TO_1-Hasant\ , \quad TO_2-Pooja$ 

Technology	No. of	`	Yield component		Disease/	Yield	Cost of	Gross return	Net return	BC
option	trials	No. of BPH/hill	Chaffy grain%	Test wt. (100 grain wt.)	insect pest incidence (%)	(q/ha)	cultivation (Rs./ha)	(Rs/ha)	(Rs./ha)	ratio
FP	7	16.4	38	-	-	37.4	34000	63580	29580	1.87
TO <sub>1</sub>	7	-	6	-	-	44.2	35000	75140	39860	2.15
TO <sub>2</sub>	7	12.3	12	-	-	41.6	34000	70720	35280	2.08

#### OFT-3

Table. Results										
Technology	No. of	•	Yield component		Disease/	Yield	Cost of	Gross return	Net return	BC
option	trials	Damaged	Larva per plant	Test wt.	insect pest		cultivation	(Rs/ha)		ratio
		pod %	1 1	(100 grain	incidence	(q/ha)			(Rs./ha)	
				wt.)	(%)		(Rs./ha)			
FP	7	18.6	6.1	-	-	6.8	30000	47600	17600	1.6
TO <sub>1</sub>	7	7.2	2.4	-	-	7.6	32000	53200	21200	1.66
$TO_2$	7	3.1	0.8	-	-	8.2	34000	57400	23400	1.68

1.	Title of On farm Trial	Assessment of IDM practices for collar rot management in YAM
2.	Problem diagnosed	Rotting of vines ,Small sized corm,Low yield
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO <sub>1</sub> – Tuber treatment with Trichoderma@ 10gram+100gram cow dung slurry + 1 litre of water for 30 minutes. On appearance of disease soil drenching with Carbandazim + mancozeb @ 1kg/ha.  TO <sub>2</sub> – Tuber treatment with Carbandazim + Mancozeb @ 2ml/lt, band placement of Trichoderma 2.5 kg + 30 kg vermicompost/ha. On appearance of disease soil drenching with Carbandazim + Mancozeb @ 1kg/ha.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source: CTCRI, Annual report,2016-17
5.	Production system and thematic area	Integrated Disease Management
6.	Performance of the Technology with performance indicators	No. of rotted vines/plant No.of affected plants/100 m2

7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Field visit, Interaction, Group discussion, problem identified & prioritization

Thematic area: Integrated disease management

Problem definition: Rotting of vines ,Small sized corm, Low yield

Technology assessed:  $TO_1$  – Tuber treatment with Trichoderma@ 10gram+100gram cow dung slurry + 1 litre of water for 30 minutes. On appearance of disease soil drenching with Carbandazim + mancozeb @ 1kg/ha. $TO_2$  – Tuber treatment with Carbandazim + Mancozeb @ 2ml/lt, band placement of Trichoderma 2.5 kg + 30 kg vermicompost/ha. On appearance of disease soil drenching with Carbandazim + Mancozeb @ 1kg/ha.

Table: Results

Tuore: Resurts										
Technology	No. of	7	Yield component		Disease/	Yield	Cost of	Gross return	Net return	BC
option	trials	No. of rotted	No.of affected	Test wt.	insect pest		cultivation	(Rs/ha)		ratio
		vines/plant	plants/100 m2	(100 grain	incidence	(q/ha)			(Rs./ha)	
		_		wt.)	(%)		(Rs./ha)			
FP	7	0.9	19.2			194.2	85000	194200		2.28
TO <sub>1</sub>	7	0.5	9.4			214.8	90000	214800		2.39
$TO_2$	7	0.3	7.2			221.6	91600	221600		2.42

1.	Title of On farm Trial	Assessment on performance of high yielding Ragi varieties
2.	Problem diagnosed	Low yield from exsisting ragi variety
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO1: Bhairabi, TO2: arjun TO3: Kalua, Assessed

4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CPR, Berhampur, OUAT, 2009, 2015 and 2016
5.	Production system and thematic area	Rice – green gram and yield evaluation
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	Arjun may be grown instead of local variety Budha mandia
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area:

Problem definition:

Technology assessed:

Technology	No. of	Y	ield component		Disease/	Yield	Cost of	Gross	Net return	BC
option	trials	No. of	No. of	Test wt.	insect pest		cultivation	return		ratio
		effective	fingers per	(100	incidence	(q/ha)		(Rs/ha)	(Rs./ha)	
		tillers/hill	panicle	grain	(%)		(Rs./ha)			
				wt.)						
FP: Budha	7	3.1	3.6	2.64	63.5	13.0	23000	35880	12880	1.56
mandia										
TO1:Bhairabi		4.2	4.3	2.89	29.8	15.0	21500	41500	20000	1.93
TO2:Arjun		7.8	5.1	3.12	26.9	18.4	21500	51200	29700	2.38
TO3:Kalua		5.9	4.8	3.10	28.4	17.2	21500	47600	26100	2.21

OFT-5

1.	Title of On farm Trial	Assessment of performance of Brinjal varieties for bacterial wilt disease management
2.	Problem diagnosed	Unavailability of Suitable Wilt tolerant variety.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice (FP): Utkal Technology option-I (TO-I): Swarna Shyamli
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR –RCER ,Ranchi
5.	Production system and thematic area	Vegetable -vegetable and varietal evaluation
6.	Performance of the Technology with performance indicators	Wilt %, Fruit weight
7.	Final recommendation for micro level situation	Recommended
8.	Constraints identified and feedback for research	Presence of spine on fruits and leaves causes hindrance in intercultural operation and harvesting
9.	Process of farmers participation and their reaction	Field visit, Contact, Interaction, Recording keeping

Thematic area: varietal evaluation

Problem definition: Unavailability of Suitable wilt tolerant variety

Technology assessed: Performance of Brinjal varieties for bacterial wilt disease management

Table: Results

Technology	No. of	Yield co	omponent	Wilt (%)	Yield	Cost of	Gross	Net return	BC
option	trials	No. of	Fruit wt. (g.)			cultivation	return		ratio
		fruits/plant	_		(q/ha)		(Rs/ha)	(Rs./ha)	
		_				(Rs./ha)			
( <b>FP</b> ): Utkal	7	35.4	378.57	27.42	329.1	178100	329140	151040	1.8
					4				
TO I: Swarna	7	47.7	497.14	4.85	384.5	178100	384570	206470	2.15
Shyamli					7				

1.	Title of On farm Trial	Assessment of herbicide for controlling weeds in okra
2.	Problem diagnosed	Poor growth, low yield & low income due to heavy weed infestation
3.	Details of technologies selected for	Farmers Practice (FP): Manual weeding
	assessment/refinement	<b>Technology option-I</b> ( <b>TO-I</b> ): Pre-emergence application of
	(Mention either Assessed or Refined)	Pendimethalin @ 2lit/ha.
		<b>Technology option-II</b> ( <b>TO-II</b> ): Pre-emergence application of
		Pendimethalin + Post- emergence application of Quizalofop ethyle @ 1

		lit./ha.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT, 2015
5.	Production system and thematic area	Rice -vegetable and weed management
6.	Performance of the Technology with performance indicators	No. of weed/m <sup>2</sup>
7.	Final recommendation for micro level situation	Recommended
8.	Constraints identified and feedback for research	Broad leaf weed are not controlled in post emergence application
9.	Process of farmers participation and their reaction	Field visit, Contact, Interaction, Recording keeping

Thematic area: weed management

Problem definition: Poor growth, low yield & low income due to heavy weed infestation

**Technology assessed:** Performance of Brinjal varieties for bacterial wilt disease management

Technology	No. of trials	Yield component	No. of	Yield	Cost of	Gross	Net return	BC
option		No. of fruits/plant	weeds/m <sup>2</sup>		cultivation	return		ratio
				(q/ha)		(Rs/ha)	(Rs./ha)	
					(Rs./ha)			
FP	7	5.14	462.71	79.28	131688	198200	66512	1.5
TOI	7	7.28	93.71	90.42	126728	226050	99322	1.7
TO II	7	9.85	23.57	95.85	128728	239625	110897	1.86

1.	Title of On farm Trial	Assessment of different chemicals for controlling competitor moulds in paddy straw mushroom
2.	Problem diagnosed	Low yield of paddy straw mushroom due to moulds attack
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Technology option-I (TO-I): Pre- soaking of the paddy straw bundle with 0.02% of Bleaching powder Technology option-II (TO-II): Pre soaking of the paddy straw bundle with 1% Calcium carbonate
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source :CTMRT,OUAT, Bhubaneswar,2014
5.	Production system and thematic area	Mushroom cultivation, Homestead
6.	Performance of the Technology with performance indicators	Pinehead appearance(days), Production(kg/bed), % of infected bed, Biological efficiency(%), % change in production
7.	Final recommendation for micro level situation	Presoaking of the straw with calcium carbonate for a period of six hour proved to be useful in suppression of contaminating moulds
8.	Constraints identified and feedback for research	Mould resistant may be developed
9.	Process of farmers participation and their reaction	Diagnostic field visit, Method demonstration training

Thematic area: Mushroom cultivation

Problem definition: Low yield of paddy straw mushroom due to moulds attack

Technology assessed: TO<sub>1</sub>. Pre- soaking of the paddy straw bundle with 0.02% of Bleaching powder

TO-<sub>2</sub>Application of lime @ 1% during soaking of straw

#### Table:

Technology	No. of	Yield component			Biological	Yield	Cost of	Gross	Net return	BC
option	trials	Days of	% of	No. of	efficiency	(Kg/	cultivation	return	(Rs./bed)	ratio
		emergence	infected bed	fruit	(%)	bed)	(Rs./bed)	(Rs/bed)		
		of pin head		bodies						
FP	07	8	26	32	10	1.1	70	132	62	1.8
$TO_1$	07	8	11	33	12	1.3	71	156	85	2.1
$TO_2$	07	9	5	36	13.5	1.4	71	168	97	2.3

1.	Title of On farm Trial	Assessment of drudgery in hanging grain cleaner
2.	Problem diagnosed	High drudgery involved in manual cleaning of Rice
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP - Cleaning of rice by using bamboo structure (Kulla) TO <sub>1</sub> - Cleaning of rice by using metallic sieve TO <sub>2</sub> - Cleaning of rice by using hanging type grain cleaner
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source :CIAE, Bhopal, 2014
5.	Production system and thematic area	Drudgery reduction, Homestead
6.	Performance of the Technology with performance indicators	Cleaning output (kg/hr), Energy expenditure (KJ/minute), Avg. WHR/min, Saving of cardiac cost (%), Reduction of drudgery (%), Increasing efficiency (%)

7.	Final recommendation for micro level situation	The productivity of worker increase as compare to traditional implements
8.	Constraints identified and feedback for research	Implement should be light weight
9.	Process of farmers participation and their reaction	Diagnostic field visit, Method demonstration training

Thematic area: Drudgery reduction

Problem definition: High drudgery involved in manual cleaning of Rice Technology assessed: TO<sub>1</sub> - Cleaning of rice by using metallic sieve TO<sub>2</sub> - Cleaning of rice by using hanging type grain cleaner

Table: Results

Technology option	No. of trials	Yield component			cardiac cost of	Avg. of	Avg. of
		Cleaning output   Energy   Avg. WHR/ w			work	percentage	percentage
		(kg/hrs)	expenditure	min		reduction in	increasing
			(KJ/min)			drudgery	efficiency
FP	07	59	8.07	105	29.72	17.94%	60.66%
$TO_1$	07	86	7.57	102	26.52		
$TO_2$	07	122	6.64	96	20.59		

1.	Title of On farm Trial	Assessment of yield performance of different varieties of oyster mushroom
2.	Problem diagnosed	Low yield of oyster mushroom due to low temperature
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Technology option-I (TO-I): Cultivation of oyster mushroom <i>var.Pluerotus ostreatus Technology</i> option-II (TO-II): Cultivation of oyster mushroom <i>var.Hypsizygus ulmarious</i>
	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source :CTMRT,OUAT, Bhubaneswar,2012

5.	Production system and thematic area	Small scale income generation, Homestead
6.	Performance of the Technology with performance indicators	Pinehead appearance(days), Production(kg/bed), % of infected bed, Biological efficiency(%), % change in production
7.	Final recommendation for micro level situation	Cultivation of oyster mushroom <i>var.Hypsizygus ulmarious</i> has high productivity
8.	Constraints identified and feedback for research	Cold resistant may be developed
9.	Process of farmers participation and their reaction	Diagnostic field visit, Method demonstration training

Thematic area: Mushroom cultivation

Problem definition: Low yield of oyster mushroom due to low temperature

Technology assessed:

TO<sub>1</sub> – Cultivation of Oyster Mushroom var. Plurotus ostreatus TO<sub>2</sub> – Cultivation of Oyster mushroom var. *Hypsizygus ulmarious* 

### Table:

Technology	No. of	Yield compo	nent		Biological	Yield	Cost of	Gross	Net return	BC
option	trials	Days of		No. of	efficiency	(Kg/	cultivation	return	(Rs./bed)	ratio
		emergence		fruit	(%)	bed)	(Rs./bed)	(Rs/bed)		
		of pin head		bodies						
FP	07	18		32	85	1.85	35	111	76	3.1
TO <sub>1</sub>	07	18		33	80	1.8	35	108	73	3.0
$TO_2$	07	20		36	95	1.9	35	114	79	3.2

1.	Title of On farm Trial	Comparative assessment of multi-enzyme mixture and probiotics on growth of chickens in semi intensive system of rearing
2.	Problem diagnosed	High feed consumption in chicken farming. High cost of feeding of poultry rearing. Low FCR due to under utilization of fiber in feed. High incidence of diarrhoea and diseases

3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice (FP): no supplement feeding TO1: Feeding of commercial broiler feed (added with probiotic mixture @ 0.05%) @50% of daily requirement and free range feeding for improved gut health and nutrient utilization. TO2: Feeding of commercial broiler feed (added with multi-enzyme mixture mixture @ 0.05%) @50% of daily requirement and free range feeding and free range feeding improved nutrient utilization.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CARI 2017-18
5.	Production system and thematic area	Backyard poultry
6.	Performance of the Technology with performance indicators	Body weight at 1.5, 2, 2.5, 3 month, morbidity, mortality, diarrhoea
7.	Final recommendation for micro level situation	Probiotics can aid in digestion and disease resistance leading to high survivability and production performance. Enzymatic treatment can aid in the production parameters. Probiotics in backyard system can be very useful.
8.	Constraints identified and feedback for research	Detailed study on performance indicator effects of probiotics and enzymes can be made
9.	Process of farmers participation and their reaction	Rearing and feeding of birds

### Thematic area:

Problem definition: High feed consumption in chicken farming. High cost of feeding of poultry rearing. Low FCR due to under utilization of fiber in feed. High incidence of diarrhoea and diseases

### Technology assessed:

Farmers Practice (FP): no supplement feeding

TO1: Feeding of commercial broiler feed (added with probiotic mixture @ 0.05%) @50% of daily requirement and free range feeding for improved gut health and nutrient utilization.

TO2: Feeding of commercial broiler feed (added with multi-enzyme mixture mixture @ 0.05%) @50% of daily requirement and free range feeding and free range feeding improved nutrient utilization.

### Table:

Technol	No.	Yield component				Incidence	Yield(Bo	Cost of	Gross	Net	BC
ogy	of	Average	Average body	Adult body	Mortality	diarrhoea	dy wt/	cultivation	re(Rs/100bi	return(Rs	ratio
option	trials	body	weight ( 12 <sup>th</sup>	weight (20 <sup>th</sup>	(%)	(%)	kg)		rds)turn	/100birds	
		weight (7 <sup>th</sup>	week)	week)				(Rs/100bir		)	
		week)						ds)			
FP	100	0.85kg	0.98kg	1.26kg	30	50	1.26	6000	10584	5584	1.76
TO <sub>1</sub>	100	1.1kg	1.70	2.1	4	8	2.1	7600	24192	16592	3.18
$TO_2$	100	1.25kg	1.65	2.0	6	11	2.0	7600	22560	14960	2.96

1.	Title of On farm Trial	Assessment of different concentrate mixture for nutritional management in CB heifer
2.	Problem diagnosed	Improper nutrition of dairy heifer animals, late puberty, anestrous
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice (FP): Feeding of straw and wheat bran TO1: straw + Concentrate mixture 1 (Maize-50%, Wheat bran -13%, mustard oil cake- 35%, mineral mix -1%, salt -1%) TO2: straw + Concentrate mixture 2 (Maize- 0, Wheat bran - 80%, mustard oil cake- 18%, mineral mix -1%, salt -1%)
4.	Source of Technology	IGFRI, 2017
5.	Production system and thematic area	Semi-intensive dairy farming
6.	Performance of the Technology with performance indicators	Body weight at puberty, age at first heat, conception rate
7.	Final recommendation for micro level situation	Continuing
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Management

## Thematic area:

Problem definition: Improper nutrition of dairy heifer animals, late puberty, anestrous

Technology assessed:

Farmers Practice (FP): Feeding of straw and wheat bran

TO1: straw + Concentrate mixture 1 (Maize-50%, Wheat bran -13%, mustard oil cake- 35%, mineral mix -1%, salt -1%)

TO2: straw + Concentrate mixture 2 (Maize- 0, Wheat bran – 80%, mustard oil cake- 18%, mineral mix -1%, salt -1%)

#### Table:

Technology option	No. of trials	Yield component	Yield	Cost o cultivation	f Gross return (	Net return	BC ratio
				(		(	
Continuing							

1.	Title of On farm Trial	Assessment of Amur carp for increasing fish production in polyculture system
2.	Problem diagnosed	Slow growth rate & stocking rate of Mrigal (ab 30%) greatly hampers the average yield from unit area of culture.
3.	Details of technologies selected for assessment/refinement	TO1: Stocking ratio Catla: Rohu: Mrigal: Amur carp:: 30:40:15:15
		TO2: Stocking ratio Catla: Rohu :Amur carp :: 30:40:30
	(Mention either Assessed or Refined)	
4.	Source of Technology (ICAR/	Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar-
	AICRP/SAU/other, please specify)	2013

5.	Production system and thematic area	Composite fish culture, Varietal evaluation
6.	Performance of the Technology with performance indicators	Growth Parameter: Avg. Body Wt. & Length, Survivability%, SGR (%);
		Water quality Parameter:Plankton, pH, DO2, Alkalinity, Hardness
7.	Final recommendation for micro level	Higher growth rate of amur carp is suitable to partial replace of mrigal in
	situation	composite fish culture. Though full replacement may done with mrigal
		FCR is high.
8.	Constraints identified and feedback for	-
	research	
9.	Process of farmers participation and their	Amur carp is suitable in composite fish culture for partial replace of
	reaction	mrigal. Taste similar to rohu, mrigal and fetch high market price.

Thematic area: Varietal evaluation

Problem definition: Stocking ratio Catla: Rohu :mrigal :: 30:40:30

Technology assessed: TO1: Stocking ratio Catla: Rohu: Mrigal: Amur carp:: 30:40:15:15

TO2: Stocking ratio Catla: Rohu :Amur carp :: 30:40:30

### Table:

Technology	No. of	Yield compo	Yield component			Yield	Cost of	Gross	Net return	BC
option	trials	Avg body	Avg length	FCR	у		cultivation	return		ratio
		wt (kg)	(cm)			(q/ha)		(Rs/ha)	(Rs./ha)	
							(Rs./ha)			
FP	5	C-1.3, R-	-	1.45	80	42.0	257000	504000	247000	1.96
		0.8, M-								
		0.62								
TO1	5	C-1.25, R-	-	1.3	84	46.0	263000	552000	289000	2.10
		0.92, M-								
		0.78, A-1.0								

TO2	5	C-1.3, R-	-	1.35	90	52.0	294000	624000	330000	2.12
		0.94, A-1.2								

### Results:

1.	Title of On farm Trial	Assessment of different planting time for better market price of Tomato
2.	Problem diagnosed	Distress sale of Tomato in rabi season
3.	Details of technologies selected for assessment/refinement	TO1: Planting of seedling 15 days before onset of normal planting period
	(Mention either Assessed or Refined)	TO2: Planting of seedling 15 days after completion of normal planting period
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR
5.	Production system and thematic area	Integrated Crop Management
6.	Performance of the Technology with performance indicators	Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio
7.	Final recommendation for micro level situation	Advancing the planting time will lead to better market rice
8.	Constraints identified and feedback for research	i. Advancing and delaying the planting time by 15days is quite less to observe any significant difference in yield. So it may be increased to 30 days.
		ii. Suitable varieties may be developed for kharif season (July-August) to fetch better market price
9.	Process of farmers participation and their reaction	Farmers voluntarily and whole heartedly participated since selection to completion of the trial. As per their suggestion the advancing and delaying duration should be increased to 1 month to get significant different in yield.

Thematic area: Marketing

Problem definition: Farmers generally plant the seedling in the month of October

Technology assessed: TO1: Planting of seedling 15 days before onset of normal planting period

TO2: Planting of seedling 15 days after completion of normal planting period

Thematic area: Marketing

### Table:

Technology	No. of	Y	Yield component			Yield	Cost of	Gross	Net return	BC
option	trials	Plant	No. of	Fruit wt.	(wilt) %		cultivation	return		ratio
		height	fruits/plant			(q/ha)		(Rs/ha)	(Rs./ha)	
			_				(Rs./ha)			
FP	7	64.6	34.5	56	5.2	438	1,48,000	5,25,600		3.5
TO1	7	59.2	28.9	49	7.4	418	1,48,000	6,27,000		4.28
TO2	7	52.4	32.7	54	4.8	434	1,48,000	4,34,000		2.9

Results:

### 3.2 Achievements of Frontline Demonstrations

# A. Details of FLDs conducted during the year

## Cereals

Sl.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of fa	Reasons for shortfall in achievem ent			
				Proposed	Actual	SC	ST	Othe	Total	
						M F	M F	rs M F	M F T	
1.	Rice	Integrated weed management	Post emergence application of Bispyribac-Na applied within 30 DAT	2 ha	2 ha	2	2	6	10	
2.	Ragi	Integrated nutrient management	Application of lime @0.25 LR (applied 15 days before sowing ) along with 50% N-P2O5-K2O (30-20-20 Kg/ha-1 or FYM (to supply 30 kg N/ha)with 50% -P2O5-K2O	2	2	3 1	2	4	10	
3.	Cowpea	Inter cropping	Maize+ cowpea row	2	2	3		7	10	

	ı			,		1			T	33
		system	ratio of 1:1 along with application of STBFR (120-75-75 )kg N- P2O5-K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha=+ zinc 5 kg/ha							
4.	Chilli	INM	Soil application of Azospirillum & PSB each @ 5kg/ha incubated with FYM + 75 % of RDF (120-60- 80 :: NPK kg/ha)	1	1		10	10		
5	Brinjal	INM	Application of N-125 kg., P2O5 – 50 kg., K2O – 50 kg. per ha., 5 kg. of Azospirilum & PSB each and foliar application of Boron @ 2 gm./ liter of water	1	1		10	10		
6	Tomato	Varietal evaluation	Triple disease resistant to ToLCV, BW & Early blight,. Seed rate				5	5		
7	Bitter gourd	ICM	Foliar application of Ethrel @ 200 ppm at 2 to 4 leaf stage & amino acids during flowering stage	1	1		10	10		
8	Ragi(Blast disease)	Integrated Disease Management	Seed treatment with Tricyclazole @ 1 gm/kg of seed and foliar spraying of Tricyclazole @	2.0	2.0	3	-	-	-	7

										50	
			300gm/ha twice at 15 days interval starting from the initiation of disease								
9	Brinjal(Wilt disease management)	Integrated Disease Management	Seed treatment with Metalaxyl+Mancozeb 72% WP @ 2gm/kg +soil application of Carbofuran @ 1kg /ha+ soil drenching of Carbendazim 0.15%+ Streptocycline 0.015% at 30 and 45 days after transplanting		2.0	2	-	-	1	8	
10	Okra(YMV management)	Integrated Pest Management	Seed treatment with Imidacloprid 600 FS @ 5 gm / Kg, Installation of Yellow Sticky Trap @ 50 / ha and spraying Acetamiprid 20 SP @ 0.3 gm /lt. at 30 and 45 DAS	2.0	2.0	3	-	-	-	7	
11	Mango (Fruit fly management)	Integrated Pest Management	Installation of methyl eugenol trap @ 20/ha and application of poison bait (Dichlorovos 20ml + jaggery 1Kg + 10lt. of water for 01 ha	2.0	2.0	2	-	-	-	8	

# Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	\$	Status of s (Kg/ha)		Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
	N N	Figure 1. Figure	Sc	N	$P_2O_5$	K <sub>2</sub> O	Prev	Sow	Har	Serainf	No.
Rice	Kharif	Rainfed	Sandy loam	185. 2	16. 5	168.4	Black gram	23.06.19 to 31.06.19	15.11.1 9 to 22.11.1 9		
Ragi	Kharif	Rainfed	Sandy loam	200.	14. 5	198.6	Green gram	01.06.19 to 07.06.19	03.09.1 9 to 10.09.1 9		
Maize +Cowp ea	Rabi	Irrigated	Sandy loam	164. 5	19. 3	203.6	Maize	02.01.20 to 09.01.20	10.04 20 to 15.04.2		
Chilli	Kharif	Irrigated	Sandy loam	168. 1	12.	129.6	Okra	5.8.19 to 12.8.19	10.11.1 9 onward s		
Brinjal	Kharif	Irrigated	Sandy loam	187. 4	10. 8	113.4	Okra	7.8.19 to 14.8.19	1.11.19 onwards		
Tomato	Rabi	Irrigated	Loam	178. 5	9.3	116.7	Cowpe a	20.9.19	31.12.19 onwards		
Bitter gourd	Rabi	Irrigated	Loam	162. 5	11.	134.9	Paddy	23.12.19 to 31.12.19	1.03.20 onward s		
Ragi	Kharif	Rainfed	Sandy loam	163.2	26.1	162.4	Greengra m	02.07.2019 to 06.07.2019	18.10.201 9 to 23.10.201	1162	39

									9	
Brinjal	Rabi	Irrigated	Sandy clay loam	218.4	32.4	206.8	Rice	05.11.2019 to 10.11.2019	28.03.201 9- 30.03.201 9	
Okra	Rabi	Irrigated	Sandy clay	194.6	34.5	214.6	Rice	08.12.2019 to 13.12.2019	12.03.201 9 to 14.03.201 9	
Mango	Kharif	Rainfed	Sandy loam	147.4	22.6	156.2	-	07-10 years plants		

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

Frontline demonstrations on Other crops

	Thematic	Name of the	No. of	Aron	Yield	(q/ha)	%	*Econ		demonstr/ha)	ration	*E		cs of chec /ha)	k
Crop	Area	technology demonstrated	Farmer s	Area (ha)	Dem o	Chec k	Increas e	Gros s Cost	Gross Retur n	Net Return	** BC R	Gros s Cost	Gross Retur n	Net Return	** BC R

	Integrated weed manageme nt	Post emergence application of BispyribacSodium @ 250 ml/ha applied within 25DAT					1860	48700	30100	2.61	2250	4100	18500	1.82
Rice			10	2	30.5	25								
Ragi	Integrated nutrient manageme nt	Application of lime @0.25 LR (applied 15 days before sowing ) along with 50% N-P2O5-K2O (30-20-20 Kg/ha-1 or FYM (to supply 30 kg N/ha)with 50% -P2O5-K2O	10	2		15	1870 0	48900	30200	2.61	2130	4130	20000	1.93

Intercro	Maize+ cowpea								3500	77600	42600	2.21	2600	5040	24400	1.94
pping	row ratio of 1:1								0				0	0		
system	along with															
	_															
	STBFR (120-75-															
	75 )kg N-P2O5-															
	K2O/ha + FYM 10															
	t/ha + biofertiliser															
	consortia 2				38.0											
	kg/ha=+ zinc 5				+											
	kg/ha		10	1	32.0	42.0	67									
INM	Soil application of	10						16.5	1429	28380	14090	1.98	1420	2436	10160	
	-								00	0	0		00	00	0	
									00	U	U		00	00		
	`			1	94.6	81.2										1.7
					71.0	01.2										1.,
INM	1 * *	10						15.7	1725	34120	16870	1.97	1700	2949	12490	
									00	0	0		00	00	0	
									00		Ü		00	00		
					341.											
				1	2	294.9										1.73
**								240	1.400	120.60	201.60	2.0	1.400	2.120	10700	
	-				429.			24.9	1480	42960	28160	2.9	1480	3438	19580	
	*		10	1	6	343.8			00	0	0		00	00	0	2.32
	<u> </u>							17.0		25.600	12021	1.00	1051	0170	02614	
ICM								17.9	1365	25680	12021	1.88	1351	21/8	82614	
					100				86	0	4		86	00		
	_				128.											
			10	1	4	108.9										1.61
		along with application of STBFR (120-75- 75 )kg N-P2O5- K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha=+ zinc 5 kg/ha  INM Soil application of Azospirillum & PSB each @ 5kg/ha incubated with FYM + 75 % of RDF (120- 60-80 :: NPK kg/ha)  INM Application of N-125 kg., P <sub>2</sub> O <sub>5</sub> - 50 kg., K <sub>2</sub> O - 50 kg. per ha., 5 kg. of Azospirilum & PSB each and foliar application of Boron @ 2 gm./ litre of water  Varietal evaluati ve BW & Early blight,.	along with application of STBFR (120-75-75)kg N-P2O5-K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha=+ zinc 5 kg/ha  INM Soil application of Azospirillum & PSB each @ 5kg/ha incubated with FYM + 75 % of RDF (120-60-80 :: NPK kg/ha)  INM Application of N-125 kg., P2O5 - 50 kg., K2O - 50 kg. per ha., 5 kg. of Azospirilum & PSB each and foliar application of Boron @ 2 gm./ litre of water  Varietal Triple disease evaluati resistant to ToLCV, ye BW & Early blight,.  ICM Foliar application of Ethrel @ 200 ppm at 2 to 4 leaf stage & amino acids during	system  along with application of STBFR (120-75- 75 )kg N-P2O5- K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha=+ zinc 5 kg/ha  INM  Soil application of 10 Azospirillum & PSB each @ 5kg/ha incubated with FYM + 75 % of RDF (120- 60-80 :: NPK kg/ha)  INM  Application of N-125 kg., P <sub>2</sub> O <sub>5</sub> - 50 kg., K <sub>2</sub> O - 50 kg. per ha., 5 kg. of Azospirilum & PSB each and foliar application of Boron @ 2 gm./ litre of water  Varietal evaluati resistant to ToLCV, ye BW & Early blight,.  ICM  Foliar application of Ethrel @ 200 ppm at 2 to 4 leaf stage & amino acids during	along with application of STBFR (120-75-75)kg N-P2O5-K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha=+ zinc 5 kg/ha  INM Soil application of Azospirilum & PSB each @ 5kg/ha incubated with FYM + 75 % of RDF (120-60-80 :: NPK kg/ha)  INM Application of N-125 kg., P2O5 - 50 kg., K2O - 50 kg. per ha., 5 kg. of Azospirilum & PSB each and foliar application of Boron @ 2 gm./ litre of water  Varietal Triple disease resistant to ToLCV, ve BW & Early blight,.  ICM Foliar application of Ethrel @ 200 ppm at 2 to 4 leaf stage & amino acids during	Application of STBFR (120-75-75) kg N-P2O5-K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha = t zinc 5 kg/ha   10	Saystem   along with   application of   STBFR (120-75-75) kg N-P2O5-K2O/ha + FYM 10   t/ha + biofertiliser   consortia 2   kg/ha=+ zinc 5   kg/ha   10   1   32.0   42.0	System   along with application of STBFR (120-75-75)kg N-P2O5-K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha=+ zinc 5 kg/ha   10	All System   along with application of STBFR (120-75-75)kg N-P2O5-K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha=+ zinc 5 kg/ha   10	System   along with   application of   STBFR (120-75-75) kg N-P2O5-  K2O/ha + FYM 10   t/ha + biofertiliser   consortia 2   kg/ha = + zinc 5   kg/ha   lincubated with FYM   +75 % of RDF (120-60-80 :: NPK kg/ha)   1   94.6   81.2	System   along with application of STBFR (120-75-75) kg N-P2O5-K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha=+ zinc 5 kg/ha   10	System   along with application of STBFR (120-75-75) kg N-P2O5-K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha= zinc 5 kg/ha   10   1   32.0   42.0   67	System   along with application of   STBFR (120-75-75) kg N-P2O5-   K2O/ha + FYM 10   U/ha + biofertiliser   consortia   2   kg/ha=+ zinc 5   kg/ha   10	System   along with application of STBFR (120-75-75)kg N-P2O5-K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha + zinc 5 kg/ha   10   1   32.0   42.0   67	System   along with application of STBFR (120-75-75) kg.N-P2O5-K2O/ha + FYM 10 t/ha + biofertiliser consortia 2 kg/ha= zinc 5 kg/ha incubated with FYM + 75 % of RDF (120-60-80 : NPK kg/ha)   1	System   along with application of   STBFR (120-75-75) kg N-P2O5-   K2O/ha + FYM   10   tha + biofertiliser   consortia 2   kg/ha = zinc 5   kg/ha     10   1   32.0   42.0   67

Ragi	Integrated Disease	Management of Blast disease in Ragi	10				18.9	2500	46800	21800	1.87	2300	3840	15400	
	Management							0				0	0		
				2	15.6	12.8									1.67
Brinj	Integrated Disease	Management of wilt	10		232.		14	9600	23280	13680	2.42	8800	2042	11620	
al	Management	complex in Brinjal		2	8	204.2		0	0	0		0	00	0	2.32
Okra	Integrated	Management of			110.		19	7400	15428	80280	2.08	7000	1296	59640	
	Pest Management	YMV in Okra	10	2	2	92.6		0	0			0	40		1.85
Mang	Integrated	Management of Fruit					21.6	3300	81920	48920	2.48	3000	6736	37360	
o (Rabi	Pest Management	fly						0				0	0		
, 2018-															
19)			05	02	51.2	42.1									2.24

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

\*\* BCR= GROSS RETURN/GROSS COST

#### Pulses

Frontline demonstration on pulse crops

Cnon	Thematic	Name of the	No. of	Area	Yield	(q/ha)	%	*Econ	omics of (Rs.	demonstr /ha)	ation	*F	Economic (Rs.	s of chec/ha)	k
Crop	Area	technology demonstrated	Farmers	(ha)	Demo	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
	Total														

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

\*\* BCR= GROSS RETURN/GROSS COST

Other crops

		Name of the	No.	Ar	Yield (	q/ha)	%		her neters			mics of on (Rs./	ha)	*Eco	nomics (Rs./h		k
Crop	Thematic area	technology demonstrated	of Far mer	ea (ha )	Demo ns ration	Che ck	chan ge in yield	Dem o	Chec k	Gros s Cost	Gros s Retur n	Net Retur n	** BC R	Gross Cost	Gros s Retur n	Net Retur n	** BC R

#### Livestock

		Name of			Ma	jor	%	Other no	arameter	*E	Econom	ics of		*Ecc	nomic	s of ch	ieck
	Themati	the	No.	No.	paran	neters	chang	Other pa	arameter	demo	onstratio	on (Rs.	)		(Rs	s.)	
Catego ry	c area	technolog y demonstr ated	of Far mer	of unit s	Demon s ration	Check	e in major param eter	Demon s ration	Check	Gross Cost	Gros s Retu rn	Net Ret urn	** BC R	Gro ss Cos t	Gro ss Ret urn	Net Ret urn	** BC R

Dairy	Fodder	Demonstr ation on Hybrid Napier (CO-4) fodder productio n in dairy farming	5	0.2 5 Ac	Milk yield 6lit/da y	Milk yield 4lit/da y	50	Fodder Yield 25 tonn/ha Reducti on in concent rate = 4kg	Fodder Yield Nil Reducti on in concent rate = 0kg	6000/0 .5ac	1296 0	696 0	2.1	720 0	864	144 0	1.2
Poultry		Demonstr ation on artificial brooding managem ent in chicks	5	100	Chick mortali ty %	Chick mortali ty % 55	32	Live broode d chick 97	Live broode d chick 45	2800	5820	302	2.0	=20 00	270	700	1.3

Poultry	Demonstrati on on low input poultry breed kadaknath in backyard rearing system	10	Breed: Kadaknat h Body wt (6mnth) 1.2kg	Breed: indigeno us Body wt (6mnth) 0.8kg	33	Mortality 12%	Mortality 22%	7150	26400	1925	3.69	7150	1560 0	8450	2.18
Sheep Feed and manag goat ment	Demonstr ation on concentra te feeding in pregnant goats (does) for reducing kid mortality (Breed: Ganjam)	50	Kid mortali ty (%) 22	Kid mortali ty (%) 4	18	Avg. Body wt of kids 1.5kg	Avg. Body wt of kids 2.4kg	43000	7200	290 00	1.6	305 00	331 50	265 0	1.0

Sheep and goat	Feed manage ment	Demonstr ation on dewormin g and suppleme nt feeding for body weight gain of	10	100	Body wt gain Kg/90 days 5.2	Body wt gain Kg/90 days 7.4	42	Mortali ty 30	Mortali ty 8	27620	1021 90	745 70	3.7	272 20	547 20	275 00	2.0
		kids															
Rabbitr																	
Digggggy																	
Pigerry																	
Sheep and																	
goat																	
Ducker																	
у																	
Others							· · · · · · · · · · · · · · · · · · ·										
(pl.spe																	
cify)																	
Total																	

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

\*\* BCR= GROSS RETURN/GROSS COST

## Fisheries

		Name of the	No.	No.	Maj		%	Other pa	arameter		Econor			*Ecc	onomics (Rs	s of ch	eck
Categor	Themat	technolo	of	of	param Dem	Cicis	chang e in				Gro	ì		-	Gro		
y	ic area	gy	Far	unit	ons	Che	major	Demons	Check	Gro	SS	Net Retu	** BC	Gro	SS	Net Retu	** BC
		demonstr	mer	S	Ratio	ck	param	ration	Check	ss Cost	Retu	rn	R	ss Cost	Retu	rn	R
	F: -1.	ated			n	20.4	eter	C1-:1:4	C11114		rn				rn		
	Fish	Demonstr				30.4		Survivabilit	Survivabilit	2504	5904	3400	2.3	2000	3648	1648	
	seed	ation on						y 56.4	y 36.4 %	00	00	00	6	00	00	00	
	producti	Yearlings						Plankton	Plankton								
	on	productio						conc 2.8	conc 2.3								1.8
IMC		n	5	5	32.8		7.8	ml/50 lit	ml/50 lit								2
INIC	Producti	Demonstr				26.7	52.0	Survivabilit	Survivabilit	2205	4872	2667	2.2	1650	3204	1554	1.9
	on and	ation on					6	y(%) 87.5	y(%) 57.6,	00	00	00	1	00	00	00	4
	manage	Yearling						plankton conc.	plankton conc.								
	C	Č						(ml/50 lit.	(ml/50 lit.								
	ment	stocking						water) 2.6	water) 2.2								
		for yield						Avg body	Avg body								
		enhancem						wt (kg): 0.92	wt (kg): 0.46								
		ent in															
		Communi															
IMC		ty pond	5	5	40.6												
	Integrated	Demonstratio															
	fish farming	n on Pond															
		based horticulture -															
		Duckery															
		farming															
IMC		system	5	5	Cont												

Orname									
ntal fishes									İ
fishes									
Others									1
(pl.spec									Ì
Others (pl.spec ify)									
	Total								

<sup>\*</sup> 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

	Name of the	No.	No	Major pa	rameters	% chang	Other p	parameter			mics of on (Rs unit			onomic Rs.) or l		
Category	technology demonstrate d	of Far mer	.of uni ts	Demons ration	Check	e in major param eter	Demons ration	Check	Gro ss Cos t	Gro ss Retu rn	Net Retu rn	** B C R	Gro ss Cos t	Gro ss Retu rn	Net Ret urn	** B C R
	Enterprise				Yield/Bed(		Biological	Biological	37	98	61	2.0	70	164	94	
	development			Yield/Bed(	kg)		efficiency	efficiency(%								
				kg)	1.2		(%)	)								
Paddy straw mushroom		10	10	0.7			12	8								2.3
	Enterprise															
Oyster	developmen															
mushroom	t															
Button																
mushroom																
Vermicompos t																
Sericulture															-	

	Honey bee															
	Rearing(Inst															
	allation of															
	Indian															
	honey bee															
	colony&															
Apiculture	managemen t)	03	03	Cont.												
	Nutritional			Consum	Consum		Availabi	Availabilit	210	540	330	2.5	190	360	170	
	garden			ption of	ption of		lity of	y of	0	0	0		0	0	0	
Others				vegetabl	vegetabl		vegetabl	vegetable/								
(pl.specify)N				es/day	es/day		e/day	day								1.8
utritional garden		10	10	2.0 kg	1.5 kg	33.3	3.5 kg	2.5 kg								
	Value			Keeping	Keeping				65	110	55	1.7	30	40	10	
Others (pl.specify)R	addition of Ragi			quality	quality											
agi Powder		10	10	2 month	3 month											1.3
wg: 1 0 W w w u u	Marigold				Yield		Flowers/	Flowers/pl	855	211	126	2.4	845	178	937	
	cultivation			Yield	qt/ha		plant	ant(no)	00	750	250	7	00	250	50	
				qt/ha	71.3		(no)	54								
Others (Floriculture)		10	10	84.7		18.7	73									2.1
	Total															

<sup>\*</sup> 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

Catagony	Name of tachnology	No. of demonstrations	Observat	tions	Remarks
Category	Name of technology	No. of demonstrations	Demonstration	Check	Kemarks
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)	File observ (output hou	ation t/man	% change in major	Lab	or redu day	•	nan	reduction or Rs./U	on (Rs./ Jnit)	ha
Implement		demonstrated			Demons ration	Check	parameter							

<sup>\*</sup> 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/ para	ha) / ma meter	jor		Economic	es (Rs./ha)	
Cereals				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (Pl. specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl. specify)										
Total										
Pulses										
Green gram										
Black gram										
Benga lgram										
Red gram							-			

CO-4	5	0.25AC	25ton/ha						
	CO-4	CO-4 5	CO-4 5 0.25AC	CO-4 5 0.25AC 25ton/ha					

## Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Chilli	Farmers appreciated the technology
2	Brinjal	Farmers appreciated the technology
3	Tomato	Thick skin and oval shape of tomato lack market preference
4	Bitter	Number of fruits increase but size of fruits decrease
	gourd	
1	Ragi	Blast disease tolerant var. may be developed
2	Brinjal	Wilt tolerant var. may be developed
3	Okra	Appreciated the technology
4	Mango	Appreciated the technology

# Extension and Training activities under FLD on Ragi

Sl.		Date	No. of	Number of	Remarks
No	Activity		activities	participants	
			organized		
1.	Field days	11.09.2019	01	50	
2.	Farmers Training	14.08.2019	01	25	
3.	Media coverage				
4.	Training for	13.02.2020	01	15	
	extension				
	functionaries				

## Extension and Training activities under FLD on Brinjal

Sl.		Date	No. of	Number of	Remarks
No	Activity		activities	participants	
			organized		
1.	Field days	04.03.2019	01	50	
2.	Farmers Training	11.12.2019 &	02	50	
		31.12.2019			
3.	Media coverage				
4.	Training for				
	extension				
	functionaries				

## Extension and Training activities under FLD on Okra

Sl.		Date	No. of	Number of	Remarks
No	Activity		activities	participants	
			organized		
1.	Field days	10.02.2020	01	50	
2.	Farmers Training	26.07.2029	01	25	

3.	Media coverage		
4.	Training for		
	extension		
	functionaries		

# Extension and Training activities under FLD on Mango

Sl.		Date	No. of	Number of	Remarks
No	Activity		activities	participants	
•			organized		
1.	Field days	01	12.03.2020	50	
2.	Farmers Training				
3.	Media coverage				
4.	Training for				
	extension				
	functionaries				

## Extension and Training activities under FLD on Honey bee rearing

Sl.		Date	No. of	Number of	Remarks
No	Activity		activities	participants	
			organized		
1.	Field days				
2.	Farmers Training	04.02.2020 &	01	15	
		05.02.2020			
3.	Media coverage				
4.	Training for				
	extension				
	functionaries				

# Extension and Training activities under FLD on chilli

Sl. No	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training	22.07.19	1	25	
3.	Media coverage				
4.	Training for				
	extension				
	functionaries				

## Extension and Training activities under FLD on brinjal

Sl. No	Activity	Date	No. of activities	Number of participants	Remarks
	·		organized		
1.	Field days				

2.	Farmers Training	05.07.19	1	25	
3.	Media coverage				
4.	Training for				
	extension				
	functionaries				

## Extension and Training activities under FLD on tomato

Sl. No	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training	03.08.19	1	25	
3.	Media coverage				
4.	Training for				
	extension				
	functionaries				

## Extension and Training activities under FLD on bitter gourd

Sl. No	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days				
2.	Farmers Training	29.01.20	1	25	
3.	Media coverage				
4.	Training for				
	extension				
	functionaries				

# Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Rabi 2019: Groundnut

#### **A.** Technical Parameters:

Sl	Crop	Existi	Exist	Yield gap (Kg/ha)		Name	Num	Ar	,	Yield	-	Yield gap		ap	
	demonst	ng	ing	w.r.to		of	ber	ea	oł	obtained		mi	nimiz	ed	
N	rated	(Farm	yield	Dist Sta Poten		Variety	of	in	(q/ha)		)	(%)			
о.		er's)	(q/ha	rict	te	tial	+	farm	ha	Ma	Mi	A	D	S	P
		variet	)	yiel	yie	yield	Technol	ers		х.	n.	v.			
		у		d	ld	(P)	ogy								
		name		(D)	(S)		demonst								
							rated								

	Ground	TMV-	22.8	19.2	19.	35.0	Dharani	50	20.	32.	27	30			
	nut	2		8	36		,		0	6	.1	.6			
1															
													1.2	1.1	.4
													3	3	7

# **B.** Economic parameters

Sl.	Variety	Fa	armer's Ex	isting plot			Demon	stration plo	ot
No.	demonstr								
	ated &	Gross	Gross	Net	B:C	Gross	Gross	Net	B:C
	Technolo	Cost	return	Return	ratio	Cost	return	Return	Ratio
	gy	(Rs/ha)	(Rs/ha)	(Rs/ha)		(Rs/ha)	(Rs/ha)	(Rs/ha)	
	demonstr								
	ated								
1	Seed				2.00	43933	91600	47667	2.09
	treatment								
	,Fertilizer-								
	20:50:40::								
	NPK								
	kg/ha,Thia								
	methoxa								
	m @ 150								
	gram/ha								
	for								
	sucking								
	pests,Hex								
	aconazole								
	@ 1lt./ha.								
	for Tikka								
	disease	34333	68800	34467					

# C. Socio-economic impact parameters

Sl.	Crop and	Total	Produce sold	Sellin	Produc	Produce	Purpose	Employment
No	variety	Produc	(Kg/househol	g	e used	distribut	for	Generated
	Demonstrat	e	d)	Rate	for	ed to	which	(Mandays/ho
	ed	Obtaine			own	other	income	use hold)
		d (kg)		(Rs/K	sowin	farmers	gained	
				g)	g (Kg)	(Kg)	was	
							utilized	
1	Groundnut,	152800	250	30	60	240	Househo	120
	Dharani						ld	
							purpose	
							and for	
							investme	
							nt in	

				farms	

## **D.** Oilseed Farmers' perception of the intervention demonstrated

Sl.	Technologies			Farmers' Per	ception p	arameters	_
No	demonstrated	Suitabili	Likings	Affordabil	Any	Is	Suggestions, for
	(with name)	ty to	(Preferen	ity	negati	Technolog	change/improvem
		their	ce)		ve	у	ent, if any
		farming			effect	acceptable	
		system				to all in	
						the	
						group/villa	
						ge	
	Improved Seed	Groundn	-Farmers	All inputs	No	yes	Plant protection
	HYV Dharani	ut is a	preferred	are			chemicals must
	Carallanatana	major	the bold	affordable			be available on
	Seed treatment, Fertilizer-	oilseed	and color				subsidized rate at
	20:50:40:: NPK	crop of	of the				block level so
	kg/ha,Thiametho	the	seed				that cost of
	xam @ 150	district	-They are				production can be
	gram/ha for	and is	quite				minimized.
	sucking pests, Hexaconazole@	cultivate	satisfied				
	1lt./ha. for Tikka	d in ha.	with the				
	disease	This	shelling				
		variety	percentag				
		is very	e				
		much	-They				
		suitable	preferred				
		to the	the				
		existing	variety				
		farming	due its oil				
		system	content				

# E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of	Farmers Feedback
		Technology vis-a vis	
		Local Check	
	32.2	23.1	Pods are bigger in size
No. of pods are more			as compared to
No. of pous are more			existing var. and no. of
			pods are more
Tikka disease	1.4	13.3	Satisfied with the
incidence %			variety as pesticide
incluence %			cost is reduced

#### F. Extension activities under FLD conducted:

Sl. No.	Extension Activities	Date and place of	Number of farmer
	organized	activity	attended
1	Group meeting	23.12.19 (A.barida) 26.12.19 (Phulasarapalli), 27.12.19 (Patulisahi)	27,34,12 Total: 50
2	Method demonstration	24.12.19 (A.barida) 27.12.19 (Phulasarapalli), 28.12.19 (Patulisahi)	27,34,12 Total: 50
3	Diagnostic field visit	7.1.2020 (A.barida) 10.1.2020 (Phulasarapalli), 13.1.2020 (Patulisahi)	27,34,12 Total: 50

- G. Sequential good quality photographs (as per crop stages i.e. growth & development)
- H. Farmers' training photographs
- I. Quality Action Photographs of field visits/field days and technology demonstrated.

#### J. Details of budget utilization

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

# Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Rabi 2019: Greengram $\,$

#### A. Technical Parameters:

Sl	Crop	Existi	Exist	Yield	gap (	Kg/ha)	Name of	Num	Ar	Yield obtained	Yield
	demonst	ng	ing	w.r.to			Variety	ber	ea	(q/ha)	gap
N	rated	(Farm	yield	Distr	Sta	Poten	+	of	in		minimiz

0.		er's)	(q/ha	ict	te	tial	Technol	farm	ha					ed	
		variety	)	yield	yiel	yield	ogy	ers					(	(%)	
		name		(D)	d	(P)	demonst			Ma	Mi	Av.	D	S	P
					(S)		rated			х.	n.				
	Greengr	PDM-	5.3	5.2	4.8	10.0	IPM 02-	25	10.						
	am	139					14		0						
1															
													1	2	3
										7.6	6.1	6.8	6	0	3

**B.** Economic parameters

Sl.	Variety	F	Farmer's Ex	xisting plot	<u> </u>	Demonstration plot						
No.	demonstrate			8 F								
	d &	Gross	Gross	Net	B:C	Gross	Gross	Net	B:C			
	Technology	Cost	return	Return	ratio	Cost	return	Return	Ratio			
	demonstrate	(Rs/h	(Rs/ha)	(Rs/ha)		(Rs/ha)	(Rs/ha)	(Rs/ha)				
	d	a)										
1	Seed Var. IPM 02-14 treated with Rhizobium @ 20 gm/ 1 Kg of seed before one hour of sowing. Application of post emergence herbicide — Imazethapyr @ 750 ml/ha at 21 DAS Application of Water soluble fertilizer (N:P:K - 19:19:19) @ 10 gm./ It. Spraying of Thiamethoxa m @ 150 gm/ ha. along with Water soluble fertilizer (N:P:K - 19:19:19) when the soluble fertilizer (N:P:K - 19:19:19:19:19:19:19:19:19:19:19:19:19:1	14150	26500	12350	1.87	17100	33750	16650	1.97			

19:19:19) @				
19:19:19) @ 10 gm. lt. of water +				
water +				
Boron @ 1				
Boron @ 1 Kg./ ha. after 40 DAS.				
40 DAS.				

## J. Socio-economic impact parameters

Sl.	Crop and	Total	Produce sold	Selling	Produc	Produce	Purpos	Employment
No	variety	Produce	(Kg/househol	Rate	e used	distribute	e for	Generated
	Demonstrat	Obtaine	d)		for	d to other	which	(Mandays/hou
	ed	d (kg)		(Rs/Kg	own	farmers	incom	se hold)
				)	sowing	(Kg)	e	
					(Kg)		gained	
							was	
							utilize	
							d	
1	Greengram,							
	IPM 02-14							

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

## A) Farmers and farm women (on campus)

Thematic Area	No. of			No	of P	artici	pant	S			Gra	nd To	otal
	Courses		Other	ſ		SC			ST				
		M	F	Т	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation													
Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management	1	12	3	15	4	2	6	4	0	4	20	5	25
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													

Thematic Area	No. of	No. of Participants							<b>Grand Total</b>				
	Courses	(	Other			SC	<b>T</b>		ST				
		M	F	T	M	F	T	M	F	Т		F	T
		141	1								M		
Others				1	11	4	7	0	3	3	16	9	25
Total	2	23	7	30	9	4	13	4	3	7	36	14	50
II. Horticulture													
a) Vegetable Crops	1										25		25
Production of low volume and	1	17		17	7		7	1		1	25		25
high value crops													
Offseason vegetables	1	10		10	_		_	1		1	25		25
Nursery raising	1	19		19	5		5	1		1	25		25
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation		22	11	4.4	_	-					20	10	70
Others( INM,ICM)	2	33	11	44	5	1	6				38	12	50
Total (a)	4	69	11	80	17	1	18	2		2	88	12	100
b) Fruits													<u> </u>
Training and Pruning													
Layout and Management of													
Orchards													
Cultivation of Fruit													
Management of young													
plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of													
orchards													
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental													
plants													
Propagation techniques of													
Ornamental Plants													
Others													
Total (c)													<u> </u>
d) Plantation crops													<u> </u>
Production and Management													
technology													
Processing and value addition													
Others								1					<u> </u>
Total (d)								-					<u> </u>
e) Tuber crops													<u> </u>
Production and Management													
technology													

Thematic Area	No. of			No	of P	artic	ipant	S			Gra	nd To	otal
	Courses		Other			SC	- <b>F</b>		ST				
	-	M	F	T	M	F	Т	M	F	Т	M	F	T
Processing and value addition											1,1		
Others													
Total (e)													
f) Spices													
Production and Management													
technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management													<del>                                     </del>
technology													
Post harvest technology and													
value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility													
Management													
Soil fertility management													
Integrated water management													
Integrated Nutrient Management													
Production and use of organic													
inputs													
Management of Problematic													
soils													
Micro nutrient deficiency in													
crops													
Nutrient Use Efficiency													
Balance Use of fertilizer													
Soil & water testing													
Others													
Total													
IV. Livestock Production and Management													
Dairy Management	1												25
Poultry Management	1												23
Piggery Management													<del>                                     </del>
Rabbit Management													<del>                                     </del>
Animal Nutrition Management													
Disease Management													
Feed & fodder technologies													
Production of quality animal													
1 Toduction of quality allillial	<u>I</u>	<u> </u>	l	J	1	<u> </u>	1	1	I	1	1	1	

Thematic Area	No. of			No	of P	artic	ipant	<b>S</b>			Gra	nd To	otal
	Courses	(	Other			SC	<u></u>	<u> </u>	ST				
		M	F	Т	M	F	T	М	F	Т	M	F	T
products													
Others, if any (Goat farming)	1												25
Total	2												50
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					İ								
processing													
Processing & cooking													
Gender mainstreaming through					<u> </u>								
SHGs													
Storage loss minimization													
techniques													
Value addition													
Women empowerment													
Location specific drudgery	1		22	22		3	3					25	25
reduction technologies	-												
Rural Crafts													
Women and child care													
Others													
Total													
VI. Agril. Engineering													
Farm machinery & its													
maintenance													
Installation and maintenance of													
micro irrigation systems													
Use of Plastics in farming													
practices													
Production of small tools and													
implements													
Repair and maintenance of farm													
machinery and implements													
Small scale processing and													
value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management	1	14	3	17	5	3	8	0	0	0	19	6	25
Integrated Disease Management	1	16	2	18	5	2	7	0	0	0	21	4	25

Thematic Area	No. of			No	of P	artic	ipant	<u> </u>			Gra	nd To	 otal
	Courses	(	Othe			SC	- P 00-1-07		ST		014		, , , , ,
		M	F	Т	M	F	Т	M	F	Т	3.5	F	T
Discontrol of mosts and											M		
BioOcontrol of pests and diseases													
Production of bio control												<u> </u>	<u> </u>
agents and bio pesticides													
Others													
Total	2	30	5	35	10	5	15	0	0	0	40	10	50
VIII. Fisheries	2	30	<i>J</i>	33	10	3	13	0			70	10	30
Integrated fish farming													
Carp breeding and hatchery													
management													
Carp fry and fingerling rearing													
Composite fish culture	2	10	0	10	17	21	38	2	0	2	29	21	50
Hatchery management and		10		10	1,		- 55	<del>-</del>					
culture of freshwater prawn													
Breeding and culture of												1	<del>                                     </del>
ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value													
addition													
Others													
Total	2	10	0	10	17	21	38	2	0	2	29	21	50
IX. Production of Input at site													
Seed Production													
Planting material production													
BioOagents production													
BioOpesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and													
fingerlings													
Production of Bee0colonies and		-											
wax sheets													
Small tools and implements													
Production of livestock feed													
and fodder												<u> </u>	
Production of Fish feed												<u> </u>	
Mushroom production												<u> </u>	
Apiculture												<u> </u>	
Others												<u> </u>	
Total												<u> </u>	<u> </u>
X. Capacity Building and													

Thematic Area	No. of			No	of P	artici	ipant	S			Gra	nd To	tal
	Courses	(	Other	·		SC			ST				
		M	F	T	M	F	Т	M	F	Т	M	F	T
<b>Group Dynamics</b>													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL													

# B) Rural Youth (on campus)

Thematic Area	No. of			No.	of P	artici	pant	S			Gra	nd To	otal
	Courses	•	Other	•		SC	•		ST				
		M	F	Т	M	F	Т	M	F	Т	M	F	T
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming													
Seed production	1	5	2	7	5	1	6	1	1	2	11	4	15
Production of organic inputs													
Planting material production													
Vermiculture	1	11	1	12	3		3				14	1	15
Mushroom Production	2	7	14	21	2	7	9				9	21	30
Beekeeping	1	11	0	11	4	0	4	0	0	0	15	0	15
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													

Thematic Area	No. of				of P	artici	pants	5			Gra	nd To	tal
	Courses		Other	•		SC	1		ST	1		1	
		M	F	T	M	F	T	M	F	T	M	F	T
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying	1												20
Sheep and goat rearing	1												20
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing	1	16	2	18	2	0	2	0	0	0	18	2	20
Others (ITK for pest control)	1	8	2	10	3	2	5	0	0	0	11	4	15
Total	9	58	21	79	19	10	29	1	1	2	78	32	150

# C) Extension Personnel (on campus)

Thematic Area	No. of			No.	of P	artici	pants	5			Grai	nd To	tal
	Courses		Other	•		SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	4	6	10	2	2	4	1		1	7	8	15
Integrated Pest Management	1	8	7	15	0	0	0	0	0	0	8	7	15
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													

Thematic Area	No. of			No.	of P	artici	pants	<b>,</b>			Grai	nd To	tal
	Courses	(	Other			SC	•		ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing	1		8	8		2	2					10	10
Group Dynamics and farmers													
organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals	1												15
Livestock feed and fodder production													
Household food security	1		11	11		3	3	0	1	1		15	15
Other(Species composition of pisciculture)	1	13	1	14	0	0	0	0	0	0	13	1	14
Total													

## D) Farmers and farm women (off campus)

Thematic Area	No. of			No.	of P	artic	ipants	<u> </u>			Grai	nd To	tal
	Courses		Other	•		SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	3	26	10	36	20	5	25	9	5	14	55	20	75
Resource Conservation													
Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management	3	25	8	33	15	10	25	5	12	17	45	30	75
Soil & water conservation													
Integrated nutrient	1	8	5	13	5	3	8	3	1	4	16	9	25
Management		0	3	13	)	3	0	3	I	4			
Production of organic inputs													
Others													
Total	7	59	23	82	40	18	58	17	18	35	116	59	175
II. Horticulture													

Thematic Area	No. of			No.	of P	artic	ipant	<u>s</u>			Grai	nd To	tal
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
a) Vegetable Crops													
Production of low volume and													
high value crops													
Offseason vegetables	1	10	11	21	2	2	4				12	13	25
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others ICM	5	36	9	45	40	17	57	9	14	20	85	40	125
Total (a)	6	46	20	66	42	19	61	6	14	20	97	53	150
b) Fruits													
Training and Pruning													
Layout and Management of													
Orchards													
Cultivation of Fruit													
Management of young													
plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of													
orchards													
Plant propagation techniques													<u> </u>
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of													
ornamental plants													
Propagation techniques of													
Ornamental Plants													
Others	-												
Total (c)	-												
d) Plantation crops  Draduction and Management									-				
Production and Management													
technology  Processing and value addition	<del>                                     </del>	<del>                                     </del>							-				<del>                                     </del>
Processing and value addition Others	-	<del>                                     </del>							-				
	-	<del>                                     </del>							-				<u> </u>
Total (d)	<del>                                     </del>	<del>                                     </del>							-				<del>                                     </del>
e) Tuber crops Production and Management	+	<del>                                     </del>							-				<del>                                     </del>
technology													
Processing and value addition	+				1			1	-				-
Others	+				1			1	-				-
Total (e)													
f) Spices	1	<del>                                     </del>											
1) spices					<u> </u>		<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u></u>

Thematic Area	No. of			No	of P	artic	ipant	s			Gran	nd To	tal
	Courses		Other			SC			ST	1			
		M	F	T	M	F	T	M	F	T	M	F	T
Production and Management													
technology												<u> </u>	
Processing and value addition												<b></b>	<u> </u>
Others													
Total (f)												<u> </u>	
g) Medicinal and Aromatic													
Plants												<del>                                     </del>	<u> </u>
Nursery management												<del>                                     </del>	<u> </u>
Production and management technology													
Post harvest technology and													
value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility													
Management													
Soil fertility management													
Integrated water management													
Integrated Nutrient													
Management													
Production and use of organic													
inputs												<u> </u>	
Management of Problematic													
soils												<b></b>	<u> </u>
Micro nutrient deficiency in													
crops												<u> </u>	<u> </u>
Nutrient Use Efficiency												<u> </u>	<u> </u>
Balance Use of fertilizer												<u> </u>	<u> </u>
Soil & water testing												<u> </u>	<u> </u>
others												<u> </u>	<u> </u>
Total												<u> </u>	ļ
IV. Livestock Production													
and Management												<del>                                     </del>	2.5
Dairy Management	1											<del></del>	25
Poultry Management	2											<del></del>	50
Piggery Management													<u> </u>
Rabbit Management													<u> </u>
Animal Nutrition													
Management  Disagge Management	1												25
Disease Management	1 2		+										25
Feed management													50
Production of quality animal													
products Others													<del>                                     </del>
													<del>                                     </del>
V. Home Science/Woman													<del>                                     </del>
V. Home Science/Women													<u> </u>

Thematic Area	No. of			No.	of P	artic	ipants	S			Grai	nd To	tal
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
empowerment													
Household food security by													
kitchen gardening and	1		2	2					23	23		25	25
nutrition gardening													
Design and development of	1		21	21		4	4					25	25
low/minimum cost diet	1		21	21		4	4					23	23
Designing and development													
for high nutrient efficiency													
diet													
Minimization of nutrient loss	1		20	20		5	5					25	25
in processing	1		20	20		3	3					23	23
Processing & cooking													
Gender mainstreaming													
through SHGs	<u> </u>				<u></u>			<u>L</u>					
Storage loss minimization													
techniques													
Value addition	3		57	57		18	18					75	75
Women empowerment	5		89	89		36	36					125	125
Location specific drudgery													
reduction technologies													
Rural Crafts													
Women and child care													
Others													
Total	11		189	189		63	63		23	23		275	275
VI. Agril. Engineering													
Farm machinery & its													
maintenance													
Installation and maintenance													
of micro irrigation systems													
Use of Plastics in farming													
practices													
Production of small tools and													
implements													
Repair and maintenance of													
farm machinery and													
implements													
Small scale processing and													
value addition													
Post Harvest Technology													
Others													
Total													
VII. Plant Protection													
Integrated Pest Management	7	122	23	145	22	8	30	0	0	0	144	31	175
Integrated Disease	3	54	9	63	8	4	12	0	0	0	63	12	75
Management	<u> </u>	J4	9	US		_ <del></del>	12			U			
Bio-control of pests and													
diseases													

Thematic Area	No. of			<b>Grand Total</b>									
	Courses		Other		1								
		M	F	T	M	F	T	M	F	T	M	F	T
Production of bio control													
agents and bio pesticides													
Others													
Total	10	176	32	208	30	12	42	0	0	0	207	43	250
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery													
management													
Carp fry and fingerling	3	13	21	34	17	5	22	12	7	19	42	33	75
rearing	3	13	21	J <del>4</del>	1/	3	22	12	,	1)			
Composite fish culture	6	54	4	58	41	26	59	14	11	25	109	41	150
Hatchery management and													
culture of freshwater prawn													
Breeding and culture of													
ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn	1	2	0	2	23	0	23	0	0	0	25	0	25
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value													
addition													
Others													
Total	10	69	25	94	81	31	104	26	18	44	176	74	250
IX. Production of Input at													
site													
Seed Production													
Planting material production													
BioOagents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and													
fingerlings													
Production of Bee0colonies													
and wax sheets													
Small tools and implements													
Production of livestock feed													
and fodder					L	L							
Production of Fish feed													
Mushroom production													
Apiculture													
Apiculture Others													
1													
Others													

Thematic Area	No. of				<b>Grand Total</b>								
	Courses	Other			SC			ST			1		
		M	F	T	M	F	T	M	F	T	M	F	T
Leadership development													
Group dynamics													
Formation and Management													
of SHGs													
Mobilization of social capital													
Entrepreneurial development													
of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL													

# E) RURAL YOUTH (Off Campus)

Thematic Area	No. of			<b>Grand Total</b>									
	Courses	Other			SC				ST				
		M	F	Т	M	F	Т	M	F	T	M	F	T
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming													
Seed production													
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping													
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													

Thematic Area	No. of			Grand Total									
	Courses	Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others													
Total													

# F) Extension Personnel (Off Campus)

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

Thematic Area	No. of			No.	of P	artici	pants	5			Grai	nd To	tal
	Courses		Other	•		SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
machinery and implements													
Gender mainstreaming through													
SHGs													
Formation and Management of													
SHGs													
Women and Child care													
Low cost and nutrient efficient													
diet designing													
Group Dynamics and farmers													
organization													
Information networking among													
farmers													
Capacity building for ICT													
application													
Management in farm animals													
Livestock feed and fodder													
production													
Household food security													
Other													
Total				_							_		_

## G) Consolidated table (ON and OFF Campus)

## i. Farmers & Farm Women

Thematic Area	No. of			No.	of Pa	rtici	pant	S			Grai	nd To	tal
	Courses		Other	r		SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation													
Technologies													i
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient													
Management													
Production of organic inputs													
Others													
Total													
II. Horticulture													

Thematic Area	No. of			No.	of Pa	ırtici	pant	S			Gra	nd To	tal
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
a) Vegetable Crops													
Production of low volume and	1	17		17	7		7	1		1	25		25
high value crops		1 /		1 /	/		/	1		1			
Off0season vegetables	1	10	11	21	2	2	4				12	13	25
Nursery raising	1	19		19	5		5	1		1	25		25
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others off	7	69	20	110	45	18	63	6	14	20	123	52	175
Total (a)	10	115	31	167	59	20	79	8	14	22	185	65	250
b) Fruits													
Training and Pruning													
Layout and Management of													
Orchards													
Cultivation of Fruit													
Management of young													
plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of													
orchards													
Plant propagation techniques													
Others													
Total (b)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental													
plants													
Propagation techniques of													
Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management													
technology													
Processing and value addition					ļ								
Others													
Total (d)					ļ								
e) Tuber crops					ļ								
Production and Management													
technology													
Processing and value addition													
Others					ļ	ļ							
Total (e)													
f) Spices													

Thematic Area	No. of		_	No.	of Pa	artici	pant	ts			Grai	nd To	tal
	Courses		Other			SC	_		ST		1		
		M	F	T	M	F	Т	M	F	T	M	F	T
Production and Management													
technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic													
Plants													
Nursery management													
Production and management													
technology													
Post harvest technology and													
value addition													
Others													
Total (g)													
Total(a-g)													
III. Soil Health and Fertility													
Management													
Soil fertility management													
Integrated water management													
Integrated Nutrient													
Management													
Production and use of organic													
inputs													
Management of Problematic													
soils													
Micro nutrient deficiency in													
crops													
Nutrient Use Efficiency													
·													
Balance Use of fertilizer													
Soil & water testing													
others													
Total													
IV. Livestock Production and													
Management													
Dairy Management	2												50
Poultry Management	1												25
Piggery Management Rabbit Management							1						
Disease Management	1												25
Feed management	1												25
Production of quality animal products	1												25
Others, if any (Goat farming)	1								L				25
Others													
Total													
V. Home Science/Women													
empowerment													
Household food security by	4		_						22	22		2.5	
kitchen gardening and nutrition	1		2	2	1			1	23	23		25	25

Thematic Area	No. of			No.	of Pa	rtici	pant	S			Gra	nd To	tal
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
gardening													
Design and development of	1		21	21		4	4					25	25
low/minimum cost diet	1		21	21		4	4					23	23
Designing and development for													i
high nutrient efficiency diet													
Minimization of nutrient loss	1		20	20		5	5					25	25
in processing	1		20	20		3						23	
Processing & cooking													
Gender mainstreaming through													İ
SHGs													
Storage loss minimization													i
techniques													
Value addition	3		57	57		18	18					75	75
Women empowerment	5		89	89		36	36					125	125
Location specific drudgery	1		22	22		3	3					25	25
reduction technologies						<u> </u>	<u> </u>						
Rural Crafts													
Women and child care													
Others													
Total	12		211	211		66	66		23	23		300	300
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease													
Management													
Bio0control of pests and													
diseases													
Production of bio control													
agents and bio pesticides													
Others													
Total													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery													
management		10	2.1	2.4	1.5			1.0		10	40	22	
Carp fry and fingerling rearing	3	13	21	34	17	5	22	12	7	19	42	33	75
Composite fish culture	4	44	4	48	24	5	21	12	11	23	80	20	100
Hatchery management and													
culture of freshwater prawn		<u> </u>											
Breeding and culture of													
Ornamental fishes								-					
Portable plastic carp hatchery	1		0	_	22	0	22	0	0	0	25		25
Pen culture of fish and prawn	1	2	0	2	23	0	23	0	0	0	25	0	25
Shrimp farming								-					
Edible oyster farming							-	-					
Pearl culture		<u> </u>											
Fish processing and value													
addition													<u> </u>

Thematic Area	No. of			No.	of Pa	artici	pant	S			Grai	nd To	tal
	Courses		Other			SC	1		ST			-	
	=	M	F	T	M	F	T	M	F	T	M	F	T
Others													
Total													
IX. Production of Input at													
site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and													
fingerlings			L		<u>L</u>			L	L	L			
Production of Bee0colonies													
and wax sheets					L				L.				
Small tools and implements													
Production of livestock feed													
and fodder													<u> </u>
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and													
<b>Group Dynamics</b>													
Leadership development													
Group dynamics													
Formation and Management of													
SHGs													
Mobilization of social capital													
Entrepreneurial development													
of farmers/youths													
WTO and IPR issues													L
Others													
Total													
XI. Agro forestry					1								<u> </u>
Production technologies					1								<u> </u>
Nursery management					1								<u> </u>
Integrated Farming Systems					1								<u> </u>
Others													<u> </u>
Total													<u> </u>
XII. Others (Pl. Specify)													
GRAND TOTAL													

## ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of			No.	of P	artici	ipants	S			Gra	nd To	tal
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management of													
Horticulture crops													
Training and pruning of													
orchards													
Protected cultivation of													
vegetable crops	1	1.1		11	2		2	1		1	1.5		1.5
Commercial fruit production	1	11		11	3		3	1		1	15		15
Integrated farming Seed production													
Production of organic inputs													
Planting material production													
Vermiculture	2		13	13		2	2					15	15
Mushroom Production	2	8	4	12	2	1	3					15	15
Beekeeping													
Sericulture													
Repair and maintenance of farm													
machinery and implements													
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal													
products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													

Thematic Area	No. of			No.	of P	artici	pants	3			Gra	nd To	tal
	Courses	(	Other			SC			ST				
		M	F	Т	M	F	T	M	F	Т	M	F	T
Fry and fingerling rearing													
Others													
Total													

## iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of			No.	of P	artici	pants	5			Grai	nd To	tal
	Courses	(	Other	•		SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in													
field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic													
inputs													
Care and maintenance of farm													
machinery and implements													
Gender mainstreaming through													
SHGs													
Formation and Management of													
SHGs													
Women and Child care													
Low cost and nutrient efficient													
diet designing													
Group Dynamics and farmers													
organization													
Information networking among													
farmers													
Capacity building for ICT													
application													
Management in farm animals	1												15
Livestock feed and fodder													
production													
Household food security													
Other	1												15
Total													

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

Discipline   Clientele   Title of the   Duration   Venue   Number of   Number of So	C/ST
---	------

	training programme	in days	(Off / On	p	articipant	S			
	programme		Campus)	Male	Female	Total	Male	Female	Total

## H) Vocational training programmes for Rural Youth

a) Details of training programmes for Rural Youth

Crop / Enter	Identi fied Thrus	Trai nin g	Duratio n	No. o	No. of Participants			mployed af	ter training	Number of persons employed else where
prise	t Area	title *	(days)	Male	Femal e	Tota 1	Type of units	Numbe r of units	Number of persons employed	

<sup>\*</sup>training title should specify the major technology /skill transferred

b) Details of participation

Thematic Area	No. of	No. of Participants									Gran	d Tota	l
	Courses		Othe	r		SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Crop production and management													
Commercial floriculture													
Commercial fruit production													
Commercial vegetable production													
Integrated crop management													
Organic farming													
Other													
Total													
Post harvest technology and value addition													

	<del></del>		1	1	1		1	ı	l	1	I
Value addition											
Other											
Total											
Livestock and											
fisheries											
Dairy farming											
Composite fish											
culture											
Sheep and goat											
rearing											
Piggery											
Poultry farming											
Other			†								
Total											
Income											
generation											
activities											
Vermicomposting											
Production of											
bioagents,											
biopesticides, biofertilizers etc.											
Repair and	+										
maintenance of											
farm machinery &											
imlements											
Rural Crafts											
Seed production											
Sericulture											
Mushroom											
cultivation											
Nursery, grafting											
etc.											
Tailoring,											
stitching,											
embroidery, dying											
etc.			1								
Agril. Para-											
workers, para0vet											
training Other	+		1								
Total	+		+								
Agricultural			+								
Extension											
Capacity building	+		1								
cupacity building			1	1	1	L	<u> </u>		<u> </u>	l	

and group dynamics							
Other							
Total							
<b>Grand Total</b>							

## I) Sponsored Training Programmes

## a) Details of Sponsored Training Programme

Sl.N	Title	Themat	Mont h	Duration (days)	Client	No. of courses	No. of participants	Sponsoring Agency
О	Title	ic area			PF/RY/EF	Courses		Agency
1	Ver mico mpo st prod ucer	Soil helth and fertility manage ment	Feb- Mar	25 days		1	20	ASCI

## b) Details of participation

Thematic Area	No. of	No. of Participants									Gran	d Tota	ıl
	Courses		Othe	r		SC	_		ST				
		M	F	T	M	F	T	M	F	Т	M	F	T
Crop production and management													
Increasing production and productivity of crops													
Commercial production of vegetables													
Production and value addition													
Fruit Plants Ornamental plants													
Spices crops													
Soil health and fertility management	1	19	1	20							19	1	20

										0.5
Production of										
Inputs at site										
Methods of										
protective										
cultivation										
Other										
Other										
Total										
Post harvest										
technology and										
value addition										
Processing and										
value addition										
Other										
Total										
Farm machinery										
Г 1.										
Farm machinery,										
tools and										
implements										
Other										
Total										
Livestock and										
fisheries										
Livestock										
production and										
management										
Animal Nutrition										
Management										
Animal Disease										
Management										
Fisheries										
Nutrition										
Fisheries										
Management										
Other										
Total										
Home Science										
Household										
nutritional										
security										
Economic										
empowerment of										
women			1							
Drudgery										
reduction of										
women Other										
Lithor	1	1	1	i	İ	1	Ì	1	1	Ī

Total							
Agricultural							
Extension							
Capacity Building and Group Dynamics							
and Group							
Dynamics							
Other							
Total							
Grant Total							

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

		Farmers				Exte	nsion Off	icials		Total	
Nature of Extension Activity	No. of activitie	М	F	Т	SC/ ST (% of total)	Male	Femal e	Total	Mal e	Female	Total
Field Day											
Kisan Mela											
Kisan Ghosthi											
Exhibition											
Film Show											
Method											
Demonstrations											
Farmers Seminar											
Workshop											
Group meetings											
Lectures delivered											
as resource											
persons											
Advisory Services											
Scientific visit to											
farmers field											
Farmers visit to											
KVK											
Diagnostic visits											
Exposure visits											
Ex-trainees											
Sammelan											
Soil health Camp											
Animal Health											
Camp											
Agri mobile clinic											
Soil test											
campaigns											
Farm Science Club											
Conveners meet											
Self Help Group											

Conveners meetings					
Mahila Mandals Conveners					
meetings					
Celebration of important days (specify)					
Sankalp Se Siddhi					
Swatchta Hi Sewa					
Mahila Kisan Divas					
Any Other (Specify)					
Total					

## B. Other Extension activities

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

## 3.5 a. Production and supply of Technological products

## Village seed

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production		<del></del>						d
					SC			ST	O	ther	Total	
					M	F	M	F	M	F	M	F
Total												

## KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)				er o				
				S			ST		ther		otal
				M	F	M	F	M	F	M	F
Grand Total											

## Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting mater provided					.1		
				S	С	S	T	Ot	ner	To	tal
				M	F	M	F	M	F	M	F
Vegetable seedlings											
Cauliflower											
Cabbage											
Tomato											
Brinjal											
Chilli											
Onion											
Others											
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						

## **Production of Bio-Products**

	Quantity									
Name of product	Kg	Value (Rs.)	No. of Farmers benefitt				ted			
			SC	SC ST		1	Other		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizers										
Bio-pesticide										
Bio-fungicide										
Bio-agents										
Others, please specify.										
Total										

## Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted							
				SC		S	Γ	Oth	ner	To	otal
				M	F	M	F	M	F	M	F
Dairy animals											
Cows											
Buffaloes											
Calves											
Others (Pl. specify)											
Small ruminants											
Sheep											
Goat											
Other, please specify											
Poultry											
Broilers											
Layers											
Duals (broiler and layer)	Chabro	450	27000								
	Kadaknath	448	33800								
Japanese Quail											
Turkey											
Emu											
Ducks	Khaki Campbell	150	9000								
Others (Pl. specify)	fodder		4800								
Piggery											
Piglet											

## 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						
Rabi 2018-19						
Summer/Spring 2019						
Kharif 2019						
Rabi 2019-2020						

iii) Financial Progress

Fund received	Expenditure	(Rs. in lakhs)	Unspent	Remarks
(2016-17, 2017-18 and 2018-19)	Infrastructure	Revolving fund	balance (Rs. in lakhs)	
2016-17				
2017-18				
2018-19				
2019-2020				

## 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	Assessment of	Satyabrata		
	performance of ragi	Mangaraj,		
	varities	Swagatika Sahu		
		and Prasanta		
		kumar Panda		
Seminar/conference/	Vermicompost	Satyabrata		
symposia papers	producer	Mnagaraj		
Books				
Bulletins				
News letter				
Popular Articles				
Book Chapter	SRI method of	Satyabrata		
	Ragi cultivation	Mangaraj		
Extension				
Pamphlets/				
literature				
Technical reports				
Electronic				
Publication				
(CD/DVD etc)				
TOTAL				

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

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

Sl.	Name	of	Name of course	Name of KVK	Date and	Organized
No.	programme			personnel and	Duration	by
				designation		
1.	Training		Operational	Satyabrata Mangaraj	27-29 Dec,	OUAT
			modalities on KVK	SMS (Agronomy)	2019	
					3 days	
2.	Training	of	Training of Trainers	Satyabrata Mangaraj	9-11 Dec, 2019	ASCI
	Trainers		on vermicompost	SMS (Agronomy)	3 days	
			producer			
3.		•				

4.			
5.			
6.			
7.			

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

<u>i pnotograpns)</u>	
Name of farmer	
Address	
Contact details (Phone, mobile, email Id)	
Landholding (in ha.)	
Name and description of the farm/ enterprise	
Economic impact	
Social impact	
Environmental impact	
Horizontal/ Vertical spread	

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

Sl. No.	Name/ Tit technology	le of	the	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

S1.	Crop /	Area (ha)/	Production	No. of farmers	Market available
No.	Enterprise	No. covered		involved	(Y/N)

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

Sl. No.	Brief	details	of	the	tool/	Purpose for which the tool was
	metho	dology fol	lowe	d		followed

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

Sl. No	Name of the Equipment	Qty.
1	Mrida Parikshyaka	02 nos

3.11.b. Details of samples analyzed so far

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
267		267	1266	45	6330

## 3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1	Exhibition, Seminar, interaction	300	03		300	300

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

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

## 3.13. Technology week celebration

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

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

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
07.05.2019	Sri R.Minj, Sub-collector,	Celebration of Akshya Tritiya
	Bhanjanagar	
18.11.2019	Dr. K.S Das, principal Scientist,	Review
	ATARI, Kolkata	
18.12.2019	Prof. P.K Roul, DEAN, Extension	Review
	Education, OUAT	
19.01.2020	Dr. S.S Singh, Director, ATARI,	Review
	Kolkata	

## 4. IMPACT

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

Name of specific	No. of	% of adoption	Change in income (Rs.)		
technology/skill transferred	participants		Before	After (Rs./Unit)	
			(Rs./Unit)	,	
Weed Management in Paddy	25	46	31000	39000	
Integrated Nutrient Management in paddy	25	75	27000	38000	
Integrated Pest Management in Paddy	25	58	43000	52000	
Management of pests and disease in Mango	25	41	54000	61000	
Integrated Pest Management in Brinjal	25	48	43000	52000	
Carp seed production and rearing of fry & fingerlings	15	68	148600	165600	
Nursery management in paddy	25	69	35000	39000	
Management of pests in Maize	25	54	19000	23000	
IPM of Tea mosquito bug in Cashewnut	25	56	13000	17000	
Management of insect, pest in tomato	25	61	54000	61000	
Management of Pest in Chilli	25	53	48000	64000	
Safe use of pesticides and chemical	25	52			
Management pest and diseases in Pigeon pea.	25	54	19000	23000	
Multiple stocking & multiple harvesting in pond culture	25	65	273000	362000	
Production of fingerlings, stunted fingerlings & yearlings	25	64	235000	286000	
Feeding management for carp culture (FLD-floating)	25	59	246000	330000	
Composite fish culture	25	45	233000	290000	
Fish diseases and their management	25	64	235000	286000	
Pisciculture in village community tanks	25	59	226000	281000	
Paddy straw mushroom cultivation	25	71	120	150	
Ideal agricultural farm record keeping.	15	76			

Income generation through Poultry farming	15	41	12000	20000
Deworming and disease management in kids	10	59	8000	10500

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 short duration Paddy var. Sahabhagidhan	142 ha.			
Weedicide –Pretilachlor application in Paddy	321 ha.			
Blast disease management by seed treatment & spraying of Tricyclazole	632ha.			
Use of floating fish feed	34 ha			
Application of Boron in Cauliflower	74 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	Impact of the technology in	Impact of the technology in
	technology		subjective terms	objective terms

## 4.4. Details of innovations recorded by the KVK

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

## 4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	
Name & complete address of the	
entrepreneur	
Role of KVK with quantitative data	
support:	
Timeline of the entrepreneurship	
development	
Technical Components of the	
Enterprise	
Status of entrepreneur before and after	

the enterprise	
Present working condition of enterprise	
in terms of raw materials availability,	
labour availability, consumer	
preference, marketing the product etc. (	
Economic viability of the enterprise):	
Horizontal spread of enterprise	

## 4.6. Any other initiative taken by the KVK

## 5. LINKAGES

## 5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
1. Pulse Research Station, Berhampur	<ul> <li>Provides the breeder and foundation seeds of the new varieties of the major crops of this district for multiplication and distribution to the farmers of this area.</li> <li>Provides all possible technical guidance and helps in solving the problems related to pest and diseases of the crops of the area</li> <li>Research results are being communicated to us for transfer of the same to the farming community.</li> <li>Feed back collected from farmers on performance of research results are supplied to the RRS regularly for refinement.</li> </ul>
2. State Department of Agriculture, Berhampur	<ul> <li>Selected trainees and extension personnel were trained in KVK on various subjects.</li> <li>Facilitation of visits for adopted farmers to KVK field units.</li> <li>Collaborative demonstrations were taken up.</li> <li>Collaborative extension activities like field days, exhibitions and seminars were conducted.</li> <li>BGREI monitoring</li> </ul>
3. State Department of Horticulture, Bhanjanagar	<ul> <li>Provided seedlings of different horticultural crops to LLP, SC/ST beneficiaries.</li> <li>Collaborative trainings, field days, demonstrations have been conducted.</li> <li>Training of rural youth on grafting and raising vegetable nursery were conducted at their horticultural units.</li> </ul>
State Department of Animal Husbandry and Veterinary Science	<ul> <li>Deputed specialist veterinary doctors to deliver guest lecturers.</li> <li>Supply of poultry birds.</li> <li>Collaborative programmes like health, infertility of dairy animals, exhibition, field days and demonstrations</li> </ul>
5. Orissa State Seed Corporation, Berhampur	<ul> <li>Organising training programmes for resource rich and progressive farmers as well as extension workers for undertaking seed production programme.</li> <li>Exchange of seeds for better quality crop husbandry.</li> <li>Development of seed village under seed village scheme</li> </ul>
6. State Department of Fisheries	Joint diagnostic survey, conducting training programmes and demonstrations.

	Training to Block level officers.
7. ATMA	<ul> <li>Developing SREP plan</li> <li>Reviewing Block Action Plan &amp; guidance.</li> <li>Training to FAC &amp; BTT members.</li> <li>Conducting strategic research.</li> <li>Conducting Farmer Participatory Research.</li> </ul>
8. CIMMYT	Hybrid Maize trial
8. CRRI, Cuttack	Hyv, stress tolerant var. of Paddy
9. CTCRI, Regional Centre, Bhubaneswar	Planting materials of tuber crops
10. CARI, Regional centre, Bhubaneswar	Supply of Banaraja poultry bird and Khaki Campbell ducklings
11. NABARD	Technical support to Farmers club .

# 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.)
NADCP with National Artificial Insemination Programme	For FMD & Brucellosis and Artificial Insemination	11.09.2019	ICAR	14,700/-
Tree Plantation Programme-cum-Krishka Gosthi	Awareness for planting tree among farmers	17.09.2019	ICAR	9800/-
Training & capacity Building of Pump Technicians & Farmers	Training Programme	07.02.2020		30,000/-

(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.		Year	Are	Details of	production	n	Amoun	nt (Rs.)	
No	Name of demo Unit	of estt.	a(S q.m t)	Variety/bre ed	Produc e	Qty.	Cost of inputs	Gross income	Remark s
1	Vermicomo	201	50	E. foetida	vermi	12	4700	14040	
•	st	1			worm	kg			
2	Crop	200	60	Bittergourd,	Bulk	6.5	11000	13000	
	cafetaria	9	0	Cabbage, Okra, Chilli,		q			
				Tomato					
3	Polyhouse	201	18	Vegetable	seedli	45	27000	45000	
		1	0	seedlings	ngs	00			
•						0			
						no			
						S			
9	Mushroom	201	10	Paddy straw-	Mushroo			2000	
	unit	0-	0	V.volvacea	m				
		11	be	Oyster					
			ds	mushroom –					
				P.sajarcaju		40kg			
1	Fingerlings					7000			
0						nos			

## 6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of	ea (ha)	Details of production		Amount (Rs.)		Re m	
		harvest	Area	Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	- ar ks
Paddy	18.07.1	15.1	4.5	Pooja	FS	147.	27000	374640	
	9	2.19				7	0		
Paddy	21.07.1	17.1	2.5	Swarn	FS	72.8	15000	179260	
	9	2.19		a sub-			00		
				1					
Pigeon	5.08.19	24.0	1.0	PRG-	FS	1.28	12396	14412	
pea		1.19		176					
Dhanic	15.07.1	8.10.	0.2	Local	TL	0.9	10600	5130	
ha	9	19							
Blackg	9.01.20	8.04.	0.5	Prasad	FS	0.3	3000	3330	
ram		19							

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

Sl.	Name of the	Qty. (Kg)	Amount (Rs.)	Remarks	l
-----	-------------	-----------	--------------	---------	---

No.	Product	Cost of inputs	Gross income	
1.				

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

Sl.	Name	Details	Details of production			ount (Rs.)	
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1.	Brooded Chick	Chhabro, Kadaknath		998	37513	60800	
2	Brooded Duckling	Khaki Campbell		140	7040	9000	

#### 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)
10.02.2020 to 05.03.2020	20	25	
29.02.2020 to 24.03.2020	20	25	
Total:	40	50	

(For whole of the year)

## 6.6. Utilization of staff quarters

Whether staff quarters has been completed:

No. of staff quarters:

Date of completion:

Occupancy details:

Months	QI	QII	Q III	QIV	Q V	QVI

#### 7. FINANCIAL PERFORMANCE

#### 7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK	State Bank of India	Bhanjanagar	11349671187
KVK (RF)	State Bank of India	Bhanjanagar	30421978750

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

Released by ICAR		ed by ICAR	Expenditure		
Item	Kharif	Rabi	Kharif	Rabi	Unspent balance as on $-31.03.2020$
CFLD (Oilseed)		Rs.3,60,000		Rs.3,47,660	Rs.12,340/-

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

	Released	by ICAR	Expe	Unspent	
Item	Kharif	Rabi	Kharif	Rabi	balance as on
					1 <sup>st</sup> April 2020
CFLD (Pulse)		Rs. 90,000		Rs. 88,800	Rs. 8,520/-

## 2019.5. Utilization of KVK funds during the year 2019-20 (Not audited)

Sl. No	Particulars	Sanctioned	Released	Expenditure						
	<u> </u>									
	ecurring Contingencies		<b>T</b>							
1	Pay & Allowances									
2	Traveling allowances	1,10,000	1,10,000	1,10,000						
3	Contingencies		<u> </u>							
A										
В		14,00,000	13,98,800	13,98,800						
<i>C</i>	HRD									
D		30,000	30,000	30,000						
E										
F										
G										
Н										
Ι										
J	Swachhta Expenditure									
	TOTAL (A)	15,00,000	14,98,800	14,98,800						
B. N	on-Recurring Contingencies									
1	LIBRARY	10,000	10,000	10,000						
2										
3										
4										
	TOTAL (B) 10,000 10,000 10,000									
C. R	EVOLVING FUND									
	GRAND TOTAL (A+B+C)	14,10,000	14,10,000	14,10,000						

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year (Kind + cash)
2015-16	12647	873425	7234291	139134
2016-17	139134	349150	487491	65000
2017-18	793	747078	743138	154000
2015-16	12647	873425	7234291	139134
2019-20	2267	923687	225000	

## 7.6. (i) Number of SHGs formed by KVKs

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

## 7.7. Joint activity carried out with line departments and ATMA

Name of	Number of	Season	With line	With ATMA	With
activity	activity		department		both
BPH		Kharif			
management awareness	18		Agril. Dept.		
Pulse demon.	02	Rabi			both
Training programme	14				both
Verifivation of planting material	01		Hort. Dept		
Animal health camp	04		Veterinary dept.		

#### 8. Other information

#### 8.1. Prevalent diseases in Crops

Name of the	Crop	Date of	Area	%	Preventive measures taken for
disease		outbreak	affected	Commodity	area (in ha)
			(in ha)	loss	

## 8.2. Prevalent diseases in Livestock/Fishery

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

## 9.1. Nehru Yuva Kendra (NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

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

Type of message	No. of messages	No. of farmers covered
Crop		52460
Livestock		
Fishery		
Weather		
Marketing		
Awareness		
Training information		
Other		
Total		

## 9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	3587
2.	No. of farmers registered in the portal	
3.	Mobile Apps developed by KVK	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	

## 9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken

## b. Details of Swachhta activities with expenditure

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

## 9.6. Observation of National Science day

Date of Observation	Activities undertaken

#### 9.7. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants

## 9.8. Agriculture Knowledge in rural school

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

Give good quality 1-2 photograph(s)

## 9.9. Details of 'Pre-Rabi Campaign' Programme

D	No. of	No.	No.			D- ::4:	-:	(NI - )			Co	Co
at e of pr og ra m m e	Union Minister s attended the program me	of Hon' ble MPs (Loksab ha/ Rajyasa bha) participa ted	of State Govt Mini sters	MLA s Atten ded the progr amm e	Chair man ZilaP anch ayat	Partic Distt. Colle ctor/ DM	Ban k Off icia ls	Farme rs	Govt. Offic ials, PRI mem bers etc.	Tota 1	ver age by Do or Da rsh an (Y es/	ver age by oth er cha nne ls (N um
											No )	ber )
											,	,

## 9.10. Details of Swachhta Hi Sewa programme organized

Sl.	Activity	No. of	No. of	No. of VIPs	Name (s) of
No.	·	villages	Partici		VIP(s)
		Involved	pants		` '

## 9.11. Details of Mahila Kisan Divas programme organized

Sl.	Activity	No. of	No. of	No. of VIPs	Name (s) of
No.		villages	Partici		VIP(s)
		Involved	pants		

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

Sl.	Name of Farmer	Address of the	Innovation/ Leading in
No.		farmer with	enterprise
		contact no.	

#### 9.13. Revenue generation

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

#### 9.14. Resource Generation:

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

#### 9.15. Performance of Automatic Weather Station in KVK

· • <u> </u>	. 13.1 offormation of rationation of outside Station in 11 / 11							
	Date of establishment	Source of funding i.e.	Present status of functioning					
		IMD/ICAR/Others (pl. specify)						

## 9.16. Contingent crop planning

Name	Name of	Thematic	Number of programmes	Number of	A brief about
of the	district/K	area	organized	Farmers	contingent plan
state	VK			contacted	executed by the
					KVK

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

- a) Year:
- b) Introduction / General Information:

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

#### 11. Details of TSP

a. Achievements of physical output under TSP during 2019-2020

Programmes	Physical achievements

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

- b. Fund received under TSP in 2019-20 (Rs. In lakh):
- c. Achievements of physical outcome under TSP during 2019-2020

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

d. Location and Beneficiary Details during 2019-2020

District	Sub- district	No. of Village covered	Name of village(s) covered	S	T population ben (No.)	efitted
				M	F	T

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

Natural Resource Management

Name of intervention	Numbers	No	Area	N	lo of far	Remarks		
undertaken	under	of	(ha)		be			
	taken	units						
				SC ST Other Total				
				M F	M F	M F	M F T	

## Crop Management

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

#### Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)		No of farmers covered / benefitted				Remarks			
				SC	ST		Oth	ner	Tot	tal		
				M F	M	F	M	F	M	F	T	

## Institutional interventions

Name of intervention undertaken	No of units	Area (ha)		N	lo o		mers		ered	1/		Remarks
			SC	SC ST Other Total								
			M	M F M F M F M F T								

Capacity building

Thematic area	No of Courses			No	o of	bene	eficiar	ries		
		SC ST Other Total								
		M	F	M	F	M	F	M	F	T

## Extension activities

Thematic area	No of activities			No	of	bene	ficiar	ies		
		SC ST Other Total								
		M F M F M F M F 7					T			

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

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

Award received by Farmers from the KVK district

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

- 14. Any significant achievement of the KVK with facts and figures as well as quality photograph
- 15. Number of commodity based organizations/ farmers' cooperative society/ FPO formed/ associated with during last one year (Details of the group/society may be indicated)

Sl.	Name of	Trust Deed	Date of Trust	Proposed	Commodity	No. of	Financi	Success
No.	the	No.& date	Registration	Activity	Identified	Membe	al	indicator
	organizatio		Address			rs	positio	
	n/ Society						n	
							(Rupee	
							s in	
							lakh)	

## 16. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl.	Module	Area	Producti	Cost of	Value realized	No. of	% Change in
No.	details	under	on	productio	in Rs.	farmer	adoption
	(Compon	IFS (ha)	(Commo	n in Rs.	(Commodity-	adopted	during the
	ent-wise)		dity-	(Compon	wise)	practicing	year
			wise)	ent-wise)		IFS	

#### 17. Technologies for Doubling Farmers' Income

Sl.	Name of the	Brief Details of	Net Return to	No. of farmers	One high
No.	Technology	Technology (3-	the farmer (Rs.)	adopted the	resolution
		5 bullet points)	per ha per year	technology in	'Photo' in 'jpg'
			due to adoption	the district	format for each
			of the		technology
			technology		
1					
2					

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

	Database prep	pared/ covered for	KVK leve	l Committee	Various activity
Phase			Date of	Name of	conducted for farmers
	villages	farmers	formation	members	
I (up-to					
15.03.2018)					
II (up-to 24.04.218)					
Total					

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

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

## 20. a) Information on ASCI Skill Development Training Programme, if undertaken during 2019

Name	Name of the	Date of	Date of	No. of partic			icipa	nts		Whether	Fund
of the	certified	start of	completion	SC		ST		Oth	ner	uploaded	utilized
Job	Trainer of	training	of training	M	F	M	F	M	F	to SIP	for the
role	KVK for									Portal	training
	the Job role									(Y/N)	(Rs.)
Vermic	Sri	10.02.202	05.03.2020					1	0	Y	1,80,000
ompost	Satyabrata	0						9	1		
produc	Mangaraj										
er											
Agricul	Dr. Santosh	29.02.202	24.03.2020					1	0	Y	1,80,000
ture	Kumar	0						6	4		
Extensi	Samanatara										
on	у										
Service											
Provide											
r											

# b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs.**, if any) if undertaken during 2019

Thematic area	Title of	Duration	No	of p	artio	cipan		Fund utilized for				
of training	the	(in hrs.)						the training				
	training											(Rs.)
			SC		ST		Oth	ner	Tot	al		
			M	F	M	F	M	F	M	F	T	

#### 21. Information on NARI Project (if applicable)

Name of	No. of OFT	Title(s) of	No. of FLD	No. of	Total no.	Details of
Nodal	on specified	OFT	on specified	capacity	of farm	Issues related
Officer	aspects		aspects	development	women/	to gender

		programme on specified aspects	girls involved in the project	mainstreaming addressed through the project

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

## Krishi Kalyan Abhiyan- I and II

## A. Training

Name of programme	No. of programmes			No		No. of of officials						
		S	C	S	attended							
		M	F	M	F	M	F	M	F	T	the programme	
KKA-I												
KKA-II												

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

Name of progra mme	No. of Pro gra mm e		Total q distri	uantity buted	V			No.	of farn	iers be	nefited	l			No. of other officials (except KVK) attended the programme
		Se ed (q)	Plant ing mate rial (lakh )	Inp ut (kg)	Oth er (kg/ No.	M	F F	M	F	Oth M	rers F	M	Total F	T	
KKA- I															
KKA- II															

## C. Livestock and Fishery related activities

Name	No.	A	ctivities	perform	ied		No. of farmers benefited							
of	of	No.	No.	Feed/	Any	SC	ST	Others	Total	other				

progra mme	Pr ogr am me	of anim als vacci nated	of anim als dewo rmed	nutri ent suppl emen ts provi ded (kg)	other (Distri bution of animal s/ birds/ fingerl ings) [No.]	M	F	M	F	M	F	M	F	T	officials (except KVK) attended the programm e
KKA-I															
KKA- II															

## D. Other activities

Name	Activities			No.	of farn	ners b	benefi	ited			No. of other
of		S	$\overline{C}$		T		hers		Tota	al	officials
progr amme		M	F	M	F	M	F	M	F	T	(except KVK) attended the programme
KKA- I	Soil Health Card Distributed NADEP Pit										
	established Farm implements distributed Others, if any										
KKA- II	Soil Health Card Distributed NADEP Pit established										
	Farm implements distributed Others, if any										

Krishi Kalyan Abhiyan- III

No. of villages	No. of		No. of far	Any other, if		
0	inseminated	SC	ST	Others	Total	(pl. specify)

	M	F	M	F	M	F	M	F	T	

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

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

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

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