# ANNUAL PROGRESS REPORT 2018-19

(April 2018 to March 2019)





ODISHA UNIVERSITY OF AGRICULTURE & TECHNOLOGY Gambharipali, P.O.-Larambha, Dist-Bargarh, Odisha - 768102

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

### 1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	
Address	Office	FAX	E IIIali	
Krishi Vigyan Kendra, At- Gambharipali, PO- Larambha, Dist Baragarh. Pin – 768102, Odisha	06682- 225238	06682-225238	kvkbaragarh.ouat@gmail.com baragarhkvk@yahoo.com	

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

Address	Telephone		E mail	
Address	Office	FAX	E man	
Odisha University of Agriculture & Technology, Bhubaneswar,Odisha	0674- 2397362	0674-2397362	deanextensionouat@yahoo.com deanextension_ouat@rediffmail.com	

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

Name		Telephone / Contact						
	Residence	Mobile	Email					
Dr. Anil Kumar Swain	-	9438615702	anilkumarswainouat@gmail.com					

1.4. Year of sanction of KVK: 1992

1.5. Staff Position (as on 1st April, 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. Anil Kumar Swain	Sr. Scientist & Head	Fishery Science	15600-39100 + AGP-8000 (28230)	18.09.2017	Temporary	OBC
2	Subject Matter Specialist	Mrs. SusritaSahu	Scientist	Home Science	15600-39100 + AGP-6000 (22220)	06.06.2010	Temporary	OBC
3	Subject Matter Specialist	Mr. Nrusingh Charan Barik	Scientist	Nematology	15600-39100 + AGP-6000 (21390)	22.07.2011	Temporary	OBC
4	Subject Matter Specialist	Mr. Sanat Kumar Meher	Scientist	Horticulture	15600-39100 + AGP-6000 (21390)	31.05.2015	Temporary	OBC
5	Subject Matter Specialist	Ms. Rukeiya Begum	Scientist	Plant Science	15600-39100 + AGP-6000 (17610)	29.05.2015	Temporary	Other
6	Subject Matter Specialist	Mr. Tarak Chandra Panda	Scientist	Agril. Engineering	15600-39100 + AGP-6000 (17610)	04.12.2015	Temporary	Other
7	Subject Matter Specialist	Mr. Alok Kumar Sahoo	Subject Matter Specialist	Agril. Extension	15600-39100 + AGP-5400 (15600)	31.01.2019	Temporary	OBC
8	Programme Assistant	Mr. Deepankar Jena	Programme Assistant	Seed Science	9300-34800 + GP4200 (11010)	06.02.2015	Temporary	OBC
9	Computer Programmer	Mr. Sanat Kumar Meher	Programme Assistant	Computer	9300-34800 + GP-4200 (11940)	06.02.2016	Temporary	OBC
10	Farm Manager	Mrs. Prarthana Mohanty	Farm Manager	Horticulture	9300-34800 + GP-4200 (11470)	04.02.2019	Temporary	Other
11	Accountant / Superintendent	Vacant	-	-	-	-	-	-
12	Stenographer	Mr.Sumant Kumar Jally	Steno cum Comp. Operator	-	5200-20200 + GP-2400 (6430)	14.02.2014	Temporary	SC
13.	Driver	Mr. Anirudhha Chhanda	Driver cum Mechanic	-	5200-20200+ GP – 1900 (7400)	23.07.2008	Temporary	OBC
14.	Driver	Mr. Jagannath Sahoo	Driver cum Mechanic	-	5200-20200+ GP – 1900 (7400)	23.05.2018	Temporary	OBC
15.	Supporting staff	Mr. Safetlal Debata	Peon cum Watchman	-	4440-7440 +GP – 1700 (6290)	28.07.2008	Temporary	Other
16.	Supporting staff	Mr. Okil Khamari	Peon cum Watchman	-	4440-7440+ GP -1700 (6290)	28.07.2008	Temporary	OBC

# 1.6. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	1
2.	Under Demonstration Units	1
3.	Under Crops	9.5
4.	Orchard/Agro-forestry	5
5.	Others with details-pond	1
6.	Swampy land	1
7.	Residential area	1.5
	Total	20

Total area should be matched with breakup

# 1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of Infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					$\sqrt{}$	373.08		ICAR
2.	Farmers Hostel						324.15		ICAR
3.	Staff Quarters (6)							not	
4.	Piggery Unit							not	
5	Fencing					$\sqrt{}$	7217ft		RKVY
6	Rain Water Harvesting							not	
	Structure								
7	Threshing Floor					$\sqrt{}$	637.22		ICAR
8	Farm Godown					$\sqrt{}$	92.4		ICAR
9.	Dairy Unit						12		ICAR
10.	Poultry Unit							not	
11.	GoataryUnit							not	
12.	Mushroom Lab						27		RKVY
13.	Mushroom Production						80.4		ICAR
	Unit						60.4		ICAR
14.	Shade House			_	·	$\sqrt{}$	99		RKVY

S. No.	Name of Infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
15.	Soil Test Lab					$\sqrt{}$	43.8		ICAR
16	Vermi compost Unit					$\sqrt{}$	80.4		ICAR
17	Plant Health Diagnostics Laboratory					$\sqrt{}$	42		ICAR
18	Pond						4000		ICAR
19	Conference Hall					$\sqrt{}$	116.2		ICAR
20	Internal Farm Road					$\sqrt{}$	475 sq.ft		ICAR
21	Irrigation Channel					$\sqrt{}$			

<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
Bolero	2011	630000	2,15,627	Good
Tractor	2009	420000	2823.22 (Running Hours)	Good
Motor Cycle	2010	51000	84,817	Good

C) Equipment & AV aids

Name of Equipment	Year of Purchase	Cost (Rs.)	Present Status	Source of Fund
a. Lab Equipment				
Digital Refractometer	2018	12669	Good	ICAR
Drying Cabinet (Solar )	2018	19898	Good	ICAR
A.C with Stabilizer	2018	67600	Good	ICAR
Crown Cap Sealing Machine (2nos)	2018	5900	Good	ICAR
VacuumSealing Machine	2018	1950	Good	ICAR
Food Processor	2018	4900	Good	ICAR
b. Farm Machinery				
Tractor	2009	420000	Good	ICAR
Power Tiller	2014	170000	Good	ICAR
Power Weeder	2017	85801	Good	ICAR

Name of Equipment	Year of Purchase	Cost (Rs.)	Present Status	Source of Fund
Power sprayer	2012	9400	Good	ICAR
Drum Seeder	2017	3000	Good	ICAR
Paddle Paddy Thresher	2017	6225	Good	ICAR
Mandwa Weeder	2017	1080	Good	ICAR
Parboiling Drum	2017	5060	Good	Watershed Mission
Seed treating Drum	2017	3445	Good	Watershed Mission
Knapsack Sprayer	2017	2200	Good	Watershed Mission
Battery Operated Sprayer	2017	4410	Good	ICAR
Power Mist Blower	-	-	Good	ICAR
Brush Cutter	2018	27585	Good	ICAR
Hand Winnower	2017	4250	Good	Watershed Mission
Solar Pump	2018	14950	Good	ICAR
c. AV Aids				
Laptop	2018	50000	Good	ICAR
LCD Projector	2017	38500	Good	ICAR
LED TV	2018	38691	Good	ICAR
Projection Screen	2018	17900	Good	ICAR
PrintScan cum Copier	2018	14000	Good	ICAR
Solar Light	2018	20499	Good	ICAR
DSLR Digital Camera	2018	47806	Good	ICAR

### D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Cultivator	-	-	Good	ICAR
Rotavator	2013	114000	Good	ICAR
M.B. Plough	2013	30,000	Good	ICAR
Zero till Seed cum Fertilizer Drill	2013	47500	Good	ICAR
Land Leveler	2014	19500	Good	ICAR

# 1.8. Details SAC meeting\* conducted in the year

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	15.03.2019	25	Technological dissemination of pigeon pea var. PRG176 with nipping practice	One OFT has been planned on the performance of different pigeon pea varieties	
			Popularization of vegetable production during Kharif season	Raising of seedlings has been started under FLD& RF programme	
			Production of Tomato seedling var. Arka Rakshak for line departments	The seedling will be produced as per demands of line department	
			Demonstration of sun hemp as green manuring	Demonstration on green manuring with Sunhemphas proposed.	
			Performance evaluation of millets through farm mechanization	Seed cum- Fertilizer drill and cycle Weeder will be introduced in the FLD based on finger millet cultivation.	
			Studies on performance of Kadaknath poultry in backyard	OFT on performance of Kadaknath poultry in backyard has been planned	
			A trial for BPH management in paddy through ITK	Afield study is to be taken on the effect of spraying of Mahua oil cake extract with Kirosin Oil for BPH management	
			Popularization of floating feed in fisheries.	Already done in last year & will spread in more area in this year through FLD and training programmes	

<sup>\*</sup> Salient recommendation of SAC in bullet form Attached a copy of SAC proceedings along with list of participants (Annexur-1)

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

Sl. no.	Item	Information
1	Major Farming system/enterprise	Paddy-Paddy, Paddy-Pulse, Paddy-oilseed, Paddy-vegetables-vegetables, Paddy-Fallow, Dairy, Poultry, Mushroom, NTFP
2	Agro-climatic Zone	West Central Table Land
3	Agro ecological situation	<ul> <li>Plain Land Irrigated</li> <li>Plain Land Rain fed</li> <li>Undulating Plain Drought-prone</li> <li>Undulating Sub-mountainous Tract Rainfed</li> </ul>
4	Soil type	Red & Yellow, Lateritic, Black soil
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others (q/ha.)	Paddy-44.2 (K), Paddy-62.9 (R), Greengram-2.65(K), Greengram-4.9(R), Groundnut-16.6 (K), Groundnut-23.85 (R), Wheat-14.1, Maize-32.9, Blackgram-2.67, Pigeonpea-10.3, Mustard-8.75, Sesamum-2.5, Potato-103.5, Brinjal-22, Chilli-71.9  Mango-52.2, Banana-18.3
6	Mean yearly temperature, rainfall, humidity of the district	14-43°c,1367.3mm, 74%
7	Production of major livestock products like milk, egg, meat etc.	Milk-45700MT, Meat-16300 MT, Egg-27.03 million

Note: Please give recent data only

# 2.b. Details of operational area / villages (2018-19)

Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Bandenbahal	2017	Sohela	98	833	225
Lahanda	2017	Attabira	18	6183	1493
Patrapalli	2015	Bhatli	69	2500	280
Kusmuda	2017	Ambabhona	82	948	205
T. Gandapalli	2017	Bijepur	74	1390	349

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	Bargarh	Sohela	Bandenbahal	Paddy, Pigeon pea, Groundnut Vegetables & Poultry	<ul> <li>Labour problem in different agricultural operation in pulses &amp; millets</li> <li>Poor productivity of groundnut due to disease complex</li> <li>Low voltage for operation of electrified borewell</li> <li>Non-commercialisation of Organic wastage</li> <li>Low productivity of country birds</li> </ul>	<ul> <li>Farm mechanization in pigeon pea&amp; millets</li> <li>IPDM in groundnut.</li> <li>Promotion of renewable energy</li> <li>Vermi-compost production</li> <li>Rearing management of improved poultry</li> </ul>
2	Bargarh	Attabira	Lahanda	Paddy, Vegetables, Mushroom	<ul> <li>Severe yield loss due to attack of BPH in paddy</li> <li>Low price of vegetables in Rabi season</li> <li>Less income from Indian major carps (Catla, Rohu, Mrigal) with limited yield after 10months of culture period.</li> <li>Underutilisation of threshed paddy straw</li> </ul>	<ul> <li>IPDM measures in paddy</li> <li>Off season vegetable cultivation &amp; Promotion of floriculture</li> <li>Varietal evaluation &amp; production management of fish</li> <li>Cultivation of Paddy straw mushroom with threshed straw</li> </ul>
3	Bargarh	Bhatli	Patrapalli	Paddy, Greengram Vegetables, Groundnut	Severe infestation of insect pest and disease in paddy, pulses. oilseed& vegetables	<ul> <li>Organic farming inpaddy, oilseeds&amp; vegetables</li> <li>Integrated weed management in pulses &amp; mango</li> </ul>

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
				Sesamum, Fishery	<ul> <li>Imbalance use of manures and fertilizers with weed problem in Paddy, pulses &amp; oilseeds leading to low productivity</li> <li>Poor yield due to disease Complex in vegetables &amp;fruits.</li> <li>Potato chips through open sun drying is a more time consuming and poor hygienic process</li> <li>Low growth rate of normal Rohu with low availability of natural plankton leading to less fish yield</li> </ul>	<ul> <li>INM &amp;IDM in vegetables</li> <li>Value addition of vegetables</li> <li>Introduction of improved fish variety with feed management</li> </ul>
4	Bargarh	Ambabhona	Kusmuda	Paddy, Greengram Mustard, Dairy	<ul> <li>Use of excessive nitrogenous fertilizer in rice leads to degradation of soil fertility &amp;more incidence of pest &amp; disease.</li> <li>Low growth rate and yield of green gram due to sowing during (low temp )4<sup>th</sup> week of Dec.</li> <li>Labour problem in sowing of greengram</li> <li>Less return from paddy fallow areas</li> <li>Low milk yield due to poor feeding practices.</li> </ul>	<ul> <li>INM &amp;IPDM in paddy</li> <li>ICM in Rabigreengram</li> <li>Farm mechanization.</li> <li>Introduction of short duration oilseed crops</li> <li>Feeding management of dairy animals.</li> </ul>
5	Bargarh	Bijepur	T. Gandapalli	Paddy, Greengram, pigeon pea Groundnut, vegetables Poultry	<ul> <li>Labourer problems for different farm activities</li> <li>Low yield from local varieties of pigeonpea</li> <li>Poor yield from degenerated groundnut varieties</li> <li>Low price of vegetables in Rabi season</li> <li>Low productivity of country birds.</li> </ul>	<ul> <li>Farm mechanization in greengram&amp; vegetables</li> <li>Varietal evaluation of pigeon pea</li> <li>Introduction of high yielding varieties</li> <li>Off season cultivation of onion &amp; cauliflower</li> <li>Rearing management of improved breed of Poultry</li> </ul>

# 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
Bandenbahal	Sohela	Assessment of Power Pulse Thresher
		Demonstration of tractor drawn seed cum fertiliser drill for sowing of finger millets
		Demonstration of Integrated Management of Disease Complex in Groundnut
		Demonstration of solar pump for irrigation in Nutritional Garden
		Assessment of different substrates in vermicompost production
		Demonstration of backyard poultry (Rainbow rooster)
Lahanda	Attabira	Assessment of BPH tolerant Rice varieties
		Assessment of the cauliflower production during Kharif Season
		Demonstration of Tuberose "Arka Prajwal"
		Assessment the incorporation of Amur carp in composite carp culture
		Assessment of different combination of carps in aquaculture System
Patrapalli	Bhatli	Demonstration of organic scented Rice production
		Demonstration on green manuring in rice
		Demonstration of Eco-friendly pest management in Sesamum
		Demonstration of Integrated weed management in greengram
		Demonstration on "Grain pro super bag" for storage of greengram seed
		Assessment of Production of okra through INM.
		Demonstration of Micronutrient application on growth and yield of Watermelon
		Demonstration of Triple Disease Resistant tomato Hybrid "Arka Rakshak"
		Assessment of "SEEDPRO" (Microbial plant growth promoter) against Fusarium wilt of Tomato.
		Demonstration of plastic mulching in new mango orchard
		Assessment the efficiency of solar drier for value added products
		Demonstration of Improved Rohu, VarJayanti
		Demonstration of supplementary feeding management in pisciculture
Kusmuda	Ambabhona	Demonstration of Customised Leaf Colour Chart (LCC) for nitrogen management in rice
		Demonstration of new generation pesticide for leaf folder management in rice
		Assessment on performance of green gram var. IPM 02-14 with different date of sowing
		Assessment on Performance of Tractor drawn Happy Seeder for Sowing Green Gram
Į		CFLD on mustard

Name of village	Block	Action taken for development
T. Gandapalli	Bijepur	Assessment the performance of different pigeon pea varieties
		Assessment of the cauliflower production duringKharif Season
		Demonstration of Kharif onion var. Agri Found Dark Red
		Demonstration on Power Weeder for weeding in Brinjal
		Demonstration of backyard poultry (Rainbow rooster)
		CFLD on Kharif groundnut

### 2.1 Priority thrust areas

S. No	Thrust area
1.	Introduction of suitable varieties with improved packages of practices
2.	Organic farming
3.	Reclamation of degraded land
4.	Integrated Nutrient Management practices
5.	Integrated Disease and Pest Management Practices
6.	Quality seeds and seedlings production
7.	Skill/enterprise related technology for rural youths
8.	Value addition in seasonal vegetables
9.	Integrated farming system
10.	Rearing management of animals & birds
11.	Farm Mechanization
12.	Off season vegetable cultivation
13	Use of gender friendly farm tools for drudgery reduction
14	Doubling farmers income through need based livelihood option
15	Conservation of natural resources.

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

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

	OFT											FLD											
	No. of TechnologiesTested:										No. of TechnologiesDemonstrated:												
Num	Number of OFTs Number of farmers										Number of FLDs Number of farmers												
						A	chieve	ment							Achievement								
Target	Achievement	Target	S	С	S	Т	Oth	ers		Total		Target	Achievement	Target	SC		ST		Oth	ers		Total	
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
12	12	80	5	1	6	0	55	13	66	14	80	20	20	200	17	0	28	5	165	15	210	20	230

	Training											Extension activities											
	Number of Courses Number of Participants									Number of activities Number of participants													
TD.	4 1 .	m				A	Achievement						Achievement										
Targ	Achieveme	Targ	S	C	S	T	Oth	ers		Tota	l	Targ	Achieveme	Targ	S	C	ST		Others		Total		
et	nt	et	M	F	M	F	M	F	M	F	T	et	nt	et	M	F	M	F	M	F	M	F	T
66	55	1390	8	6	6	4	60	33	75	44	120	80000	88779		745	220	645	215	6295	793	7649	1228	8877
00	55	1390	1	5	8	6	1	8	1	9	0	88779		0	0	0	0	7	2	7	2	9	

	Impa	act o	f ca	pacit	y bu	ilding	5					Impact of Extension activities									
	Number of Trainees got employment						,			Number of Participants   Number of participants got employment (self/ wage/ entrepreneur/ e						eneur/ eng	aged as				
Partici	Participants trained wage/ entrepreneur/ engaged as skilled					ed	a	attended skilled manpower)													
	manpower)																				
TD 4	SC ST Oth				Others Total			l			SC ST		Others		Total						
Target	Achievement	M	F	M	F	M	F	M	F	T	Target	Achievement	M	F	M	F	M	F	M	F	T
60	40	2	0	3	0	14	4	19	4	23	80000	88779	7000	2100	6200	2000	40000	7000	53200	11100	64300

Seed Prod	uction (q)	Planting Material (in Lakh)					
Target	Achievement	Target	Achievement				
310	342.2	50000	173356				

Livestock strains and fish fir	ngerlings produced (in lakh)*	Soil, water, plant, manures samples tested (in lakh)					
Target	Achievement	Target	Achievement				
20000	6500	500	113				

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

			Publi	ication by KVKs			
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper	3	-	3	5.31	4.58	-	-
Seminar/conference/ symposia papers	1	-	-	-	-	-	-
Books	-	-	-	-	-	-	-
Bulletins	-	-	-	-	-	-	-
News letter	2	1000	990				
Popular Articles	15	-	1	1	-	-	-
Book Chapter	-	-	-	-	-	-	-
Extension Pamphlets/ literature	2	1000	920	-	-	-	-
Technical reports	7						
Electronic Publication (CD/DVD etc)	-	-	-	-	-	-	-
TOTAL							

# Achievements on technologies assessed and refined

# OFT-1

1.	Title of On farm Trial	Assessment the performance of different pigeon pea varieties					
2.	Problem diagnosed	Less yield from local varieties.					
3.	Details of technologies selected for assessment/refinement	Assessment FP:Local Variety (Magusuria) (Duration—180days, P. Yield-8q/ha) TO <sub>1</sub> :PRG 176 Name: Ujwala, (Duration-135-145days, P. Yield-12q/ha) TO <sub>2</sub> :BRG 4 (Duaration-140days, P. Yield-12q/ha)					
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICRISAT-2016, UAS Dharwad-2014					
5.	Production system and thematic area	Rainfed upland Kharif (Pigeon pea-Fallow), Varietal evaluation					
6.	Performance of the Technology with performance indicators	No of pod per plant, no of seeds per pod, Yield:q/ha ,B:C ratio					
7.	Final recommendation for micro level situation	Spacing should be 150cm and Nipping at 40-45DAS for profused branching and increase in no. of pods per plant.					
8.	Constraints identified and feedback for research	Research on maturity duration of var. PRG 176					
9.	Process of farmers participation and their reaction	Group involvement in crop management & farmers are happy because fruit maturity was completed before depletion of soil moisture.					

Thematic area:

Problem definition:

Technology assessed:

## Table:

Yield component					Disease/ insect		Cost of	Gross	Net	
Technology	No. of	No. of	No. of	Test wt.	pest incidence	Yield	cultivation	return	return	BC
option	trials	effective tillers/hill	spikelet per panicle	(100 grain wt.)	(%)	(q/ha)	(Rs./ha)	(Rs/ha)	(Rs./ha)	ratio
FP	7	120	76	15.1	33	7.2	36400	50400	14000	1:1.38
TO <sub>1</sub>	7	210	105	14.5	12	9.8	34800	68600	33800	1:1.97
$TO_2$	7	185	91	14.7	21	9.1	34100	63700	29600	1:1.86

1.	Title of On farm Trial	Assessment on performance of green gram var. IPM 02-14 with different date of sowing
2.	Problem diagnosed	Low growth rate and yield of green gram during sowing 4 <sup>th</sup> week of Dec
3.	Details of technologies selected for assessment/refinement	Assessment FP: Seed @20kg/ha, seed treatment & inoculation, sowing 4 <sup>th</sup> week Dec TO <sub>1</sub> :Seed @20kg/ha, seed treatment & inoculation, line sowing 2 <sup>nd</sup> week Jan TO <sub>2</sub> :Seed @20kg/ha, ST& inoculation, line sowing 4 <sup>th</sup> week Jan FP: Seed @20kg/ha, seed treatment & inoculation, sowing 4 <sup>th</sup> week Dec
4.	Source of Technology	OUAT,2016
5.	Production system and thematic area	Irrigated medium land Rabi (Paddy-Greengram), Integrated Crop Management
6.	Performance of the Technology with performance indicators	No. of pod per plant, No.of seeds per pod, yield(q/ha), B:C ratio
7.	Final recommendation for micro level situation	Sowing at 4 <sup>th</sup> week of January recorded better yield as more plant survival percentage and less attacked of disease and pest
8.	Constraints identified and feedback for research	Difference in sowing date as per availability of soil moisture and irrigation facilities.
9.	Process of farmers participation and their reaction	Farmers were more involved during time of sowing & harvesting. They are yet to be realized the yield after 2-3 years.

Thematic area: Integrated Crop Management (ICM)
Problem definition: Low growth rate and yield of green gram during sowing 4<sup>th</sup> week of Dec
Technology assessed: Assessment on performance of green gram var. IPM 02-14 with different date of sowing

### Table:

		Yield co	Disease/		Cost of	Gross	Net		
Technology option	No. of trials	No. of siliqua per plant	No. of primary branches per plant	insect pest incidence (%)	Yield (q/ha)	cultivation (Rs./ha)	return (Rs/ha)	return (Rs./ha)	BC ratio
FP: Seed @20kg/ha, seed treatment & inoculation, sowing 4th week Dec	7	72	9	23	2.5	10400	12500	2500	1:1.2
TO <sub>1</sub> :Seed @20kg/ha, seed treatment & inoculation, line sowing 2 <sup>nd</sup> week Jan	7	76	12	12	3.2	12300	16000	3700	1:1.3
TO <sub>2</sub> :Seed @20kg/ha, ST & inoculation, line sowing 4 <sup>th</sup> week Jan	7	84	22	8	3.8	12600	19000	6400	1:1.5

1.	Title of On farm Trial	Assessment of Brown Plant Hooper (BPH) tolerant Rice varieties
2.	Problem diagnosed	Severe yield loss due to attack of BPH in paddy
3.	Details of technologies selected for assessment/ Refinement-Assessed (Mention either Assessed or Refined)	Assessment FP: MTU-7029 (Duration:140 days, Resistant to BLB,susceptible to BPH, Yield Potential:48q/ha, Year of Release:1982 TO <sub>1</sub> :HASANTA (Duration:145 days, Resistant to BPH, Yield Potential:50q/ha,Year of Release:2014 TO <sub>2</sub> :PRATIKHYA(Duration:145 days, Moderately Resistant to BPH, Yield Potential:45q/ha, Year of Release:2014
4.	Source of Technology	OUAT, DRR(2014)
5.	Production system and thematic area	Irrigated medium land, Kharif, Paddy-Paddy,
6.	Performance of the Technology with performance indicator	BPH Population/hill after 60,75 & 90 DAT , 1000 grain wt(gm) ,Yield(q/ha), B:C ratio
7.	Final recommendation for micro level situation	Hasanta can be taken in BPH endemic area where cyclone / heavy wind occurs very rarely
8.	Constraints identified and feedback for research	Lodging of the variety due to heavy wind & increasing the doses of potash to prevent lodging
9.	Process of farmers participation and their reaction	Observing BPH population at P.I stage & they are happy as Hasanta var. is not affected by BPH

Thematic area:

Problem definition: Severe yield loss due to attack of BPH in paddy Technology assessed: Assessment of BPH tolerant Rice varieties Table:

Tubic.	No.	Yield co	mponent	Disease/ insect	Yield	Cost of	Gross	Net	ВС
Technology option	of trials	No. of	Plant Height (Cm)	pest incidence (%)	(q/ha)	cultivation (Rs./ha)	return (Rs/ha)	return (Rs./ha)	ratio
FP: MTU-7029 (Duration:140 days, Resistant to BLB,susceptible to BPH, Yield Potential:48q/ha, Year of Release:1982	7	grains/panicle	98.8	43	41	53700	61500	7800	1.14
Paddy var. Pratikshya(2014)with recommended package of practices (142days duration, MR to WBPH,105Cm height, Yield potential - 45Q/Ha	7	206	114	10	57.6	71050	86400	15350	1.21
Paddy var. HASANTA(2014)with recommended package of practices (145days duration, Resistant to BPH,110Cm height, Yield potential - 75Q/Ha	7	189	121	-	53.8	69750	80700	10950	1.15

1.	Title of On farm Trial	Assessment of "SEEDPRO" (Microbial plant growth promoter) against Fusarium wilt of Tomato.
2.	Problem diagnosed	Poor yield due to <i>Fusarium sp.</i> dominated wilt disease Complex.
3.	Details of technologies selected for assessment/refinement	Assessment FP: Seed treatment with only carbendazim TO <sub>1</sub> :seed treatment with Carbendazim 1.5gm/kg of seed followed by <i>Trichoderma viridae</i> @5gm/kg seed after 10 days TO <sub>2</sub> :seed treatment with Carbendazim 1.5gm/kg of seed followed by SEEDPRO@4gm/kg seed after 10 days
4.	Source of Technology	SOURCE:IIHR-2017
5.	Production system and thematic area	Irrigated Upland, Rabi, Paddy-veg-fallow, Integrated Disease Management
6.	Performance of the Technology with performance indicators	Disease index,% of affected plant/Sq.meter,Yield(q/ha), B:C ratio
7	Final recommendation for micro level situation	Farmers are suggested to gofor seed treatment of tomato seeds with SEEDPRO @5gmkg before sowing
8	Constraints identified and feedback for research	Poor availability of seed pro at local market & formulation of seed pro from local resources
9	Process of farmers participation and their reaction	Active participation during seed treatment&mortality observation at peak vegetative stage. They are delighted after getting more fruits per plant with maximum plant survivability

Thematic area: Integrated Disease Management

Problem definition: Poor yield due to *Fusarium sp.* dominated wilt disease Complex.
Technology assessed: Assessment of "SEEDPRO" (Microbial plant growth promoter) against Fusarium wilt of Tomato.
Results: Table:

		Yield co	omponent	Disease/ insect		Cost of	Gross	Net	
Technology option	No. of trials	Seedling mortality	No.of fruis/plant (gm)	pest incidence (%)	Yield (q/ha)	cultivation (Rs./ha)	return (Rs/ha)	return (Rs./ha)	BC ratio
FP: Seed treatment with only carbendazim	7	17	28	19	135	73000	108000	35000	1.47
TO <sub>1</sub> : Seed treatment with Carbendazim 1.5gm/kg of seed followed by <i>Trichoderma</i> <i>viridae</i> @5gm/kg seed after 10 days	7	4	36	8	157	77600	125600	48000	1.61
TO <sub>2</sub> : Seed treatment with Carbendazim 1.5gm/kg of seed followed by SEEDPRO@4gm/kg seed after 10 days	7	2	49	4	198	106900	158400	51500	1.48

1.	Title of On farm Trial	Assessment of Production of Okra through INM.					
2.	Problem diagnosed	Poor yield due to injudicious application of chemical fertilizer					
3.	Details of technologies selected for assessment/Refinement	Assessment FP: Application of RDF TO1:100% RDF + FYM@10 t/Ha + Biofertilizers (4 kg each of Azotobacter, Azosprillum,PSB) TO2:75% RDF + FYM@10 t/Ha + Biofertilizers (4 kg each Azotobacter, Azosprillum,PSB)					
4.	Source of Technology	Dept. of horticulture, AAU, JORHAT (2017)					
5.	Production system and thematic area	Irrigated, Upland, Kharif, Veg-Veg, Integrated Nutrient Management					
6.	Performance of the Technology with performance indicators	Avg number of Fruit per Plant, Avg. wt. of the fruit,(gm.),Yield(q/ha),B:C ratio					
7.	Final recommendation for micro level situation	For Promotion of Organic vegetable production FYM and Bio-fertilizer should be Included in vegetable farming.					
8.	Constraints identified and feedback for research	Available of Bio-Fertilizer is a constraint Availability of sufficient FYM is also a constraint.  Availability of Bio-fertilizer should be made available at block level and at input dealer.					
9.	Process of farmers participation and their reaction	Involvement during application of FYM mixed with bio fertilizer & They are happy due to prolonged fruiting					

Thematic area: Integrated Nutrient Management (INM)
Problem definition:Poor yield due to injudicious application of chemical fertilizer
Technology assessed: Assessment of Production of okra through INM

Table:

		Yield component				Cost of	Gross	Net	
Technology option	No. of trials	Avg. number of Fruit per Plant,	Avg. wt. of the fruit (gm.)	Average plant height (cm)	Yield (q/ha)	cultivation (Rs./ha)	return (Rs/ha)	return (Rs./ha)	BC ratio
FP: Application of RDF	7	7.36	24.45	123.2	131	62000	131000	69000	2.11
TO1:100% RDF + FYM @10 t/Ha + Biofertilizers (4 kg each of Azotobacter, Azosprillum,PSB)	7	8.04	25.12	131.6	142	66500	142000	75500	2.13
TO2:75% RDF + FYM@10 t/Ha + Biofertilizers (4 kg each Azotobacter ,Azosprillum,PSB)	7	7.86	25.05	126.4	138	65700	138000	72300	2.10

1.	Title of On farm Trial	Assessment of the cauliflower production during kharif
2.	Problem diagnosed	Low price of cauliflower in Rabi season
3.	Details of technologies selected for assessment/refinement	Assessment FP: Application of RDF TO <sub>1</sub> :Planting at cauliflower variety 1088 in 1 <sup>st</sup> week of July TO <sub>2</sub> :Planting at cauliflower variety Atisighra in 1 <sup>st</sup> week of July
4.	Source of Technology	IIHR,2010
5.	Production system and thematic area	Irrigated Upland, Kharif, Veg-Veg, Varietal evaluation
6.	Performance of the Technology with performance indicators	Avg. Curd weight(gm), Average curd diameter (cm), Yield: q/ha B:C ratio
7.	Final recommendation for micro level situation	Planting of Cauliflower in July will be more remunerative(Pan 1008)
8.	Constraints identified and feedback for research	Availability Kharif variety is sometime problem and should be ensure at market.
9.	Process of farmers participation and their reaction	Group involvement during seedling raising & transplanting. They are happy due to better plant stand under heavy rain

Thematic area: Varietal evaluation

Problem definition: Low price of cauliflower in Rabi season
Technology assessed: Assessment of the cauliflower production during Kharif Season
Results Table:

Results Table.									
	No. of	Yield component		Yield	Cost of	Gross return	Net		
Technology option	trials	Avg. Curd weight(gm)	Average curd diameter (cm)	(q/ha)	cultivation (Rs./ha)	(Rs/ha)	return (Rs./ha)	BC ratio	
FP: Planting at early cauliflower PusaKetki in July last week	7	158	8.25	92.5	58550	138750	80200	2.36	
TO <sub>1</sub> :Planting at cauliflower variety 1088 in 1st week of July	7	210	8.4	105	64000	157500	93500	2.46	
TO <sub>2</sub> :Planting at cauliflower variety Atisighra in 1 <sup>st</sup> week of July	7	197	8.32	98.5	62000	147750	85750	2.38	

1.	Title of On farm Trial	Assessment on Performance of Tractor drawn Happy Seeder for Sowing Green Gram
2.	Problem diagnosed	Low yield due to delayed sowing and less net return due to high cost of cultivation, more labour and time consumption. Burning of left out paddy straw after harvesting.
3.	Details of technologies selected for assessment/refinement	Assessment FP:Broadcasting method of sowing TO <sub>1</sub> :Line Sowing behind the Plough TO <sub>2</sub> :Sowing by Tractor Drawn Happy Seeder
4.	Source of Technology	Source: CIAE, Bhopal,2010
5.	Production system and thematic area	Irrigated medium land, Rabi, Paddy-Green Gram, Farm machinery
6.	Performance of the Technology with performance indicators	Seed rate(kg/ha), field capacity(ha/hr), Yield (q/ha), B:C ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	Weight of the implement to be reduced, Implement should be run by low hp tractor
9.	Process of farmers participation and their reaction	

Thematic area: Farm machinery
Problem definition: Low yield due to delayed sowing and less net return due to high cost of cultivation, more labour and time consumption. Burning of left out paddy straw.

Technology assessed: Assessment on Performance of Tractor drawn Happy Seeder for Sowing Green Gram

### Table:

	No. of	Yield c	omponent	Cost of	Gross Return	Net Return	ВС	
Technology Option	ogy Option No. 01 trials		Field Capacity (Ha/hr)	Cultivation (Rs./ha)	(Rs/ha)	(Rs./ha)	Ratio	
FP:Broadcasting method of Sowing	7	3	0.2	12500	15000	2500	1.2	
TO <sub>1</sub> :Line Sowing behind the Plough	7	6	0.18	14280	18000	3720	1.26	
TO <sub>2</sub> :Sowing by Happy Seeder	7	1	0.4	15550	20500	4950	1.3	

1.	Title of On farm Trial	Assessment of Power Pulse Thresher
2.	Problem diagnosed	Threshing by manually is time consuming work, more breakage and more
3.	Details of technologies selected for assessment/refinement	Assessment FP: ManualThreshing TO <sub>1</sub> : Threshing by TractorTreading TO <sub>2</sub> : Threshing by Power PulseThresher
4.	Source of Technology	Source: CIAE, Bhopal,2013
5.	Production system and thematic area	Rainfed upland,Kharif,Pigeon pea-fallow, Farm machinery
6.	Performance of the Technology with performance indicators	Labour requirement (Man-days/qtl), Cost of operation (Rs./qtl), Labour savings (%),Field capacity (q/hr), B:C Ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	Screens aperture size are to be changed. Arrangement for regulation of motor speed, screen fitting arrangement to be made easier
9.	Process of farmers participation and their reaction	

Thematic area: Farm machinery
Problem definition: Threshing by manually is time consuming work, more breakage and more Technology assessed: Assessment of Tractor Drawn Multi Crop Thresher

Table:

No		Yield co	Cost of	Cost of	Gross return	Net return		
Technology option	No. of trials	Labour (MDs / ha.):	Field Capacity(Ha/hr)	operation (Rs. / ha.):	cultivation (Rs./ha)	(Rs/ha)	(Rs./ha)	BC ratio
FP:Manual threshing	7	10	0.05	2000	22000	24500	2500	1.11
TO <sub>1</sub> : Threshing by Tractor treading	7	8	0.12	1600	20500	25800	5300	1.25
TO <sub>2</sub> : Threshing by tractor drawn multi crop thresher	7	2	0.15	580	18200	26200	8000	1.44

1.	Title of On farm Trial	Assessment of different combination of carps in aquaculture System
2.	Problem diagnosed	Less income from Indian major carps (Catla, Rohu, Mrigal) with limited yield after 10months of culture period.
3.	Details of technologies selected for assessment/refinement	Assessment FP: Indian Major Carps TO <sub>1</sub> :FP+Exotic carp TO <sub>2</sub> :TO <sub>1</sub> +Minor carp+ <i>P.gonionotous</i>
4.	Source of Technology	CIFA, Bhubaneswar, 2013
5.	Production system and thematic area	Pond based and Production & Management
6.	Performance of the Technology with performance indicators	Avg. wt. of carps (gm), Time required for table size (month), Yield (q/ha), B:C ratio, Farmers feed back
7.	Final recommendation for micro level situation	The TO <sub>2</sub> gives more yield compared to TO <sub>1</sub> . TO <sub>1</sub> sustainability is better compared to TO <sub>2</sub> as the availability of minor carp seeds are difficult at farmers level. (Best combination of Indian major carps, exotic carps and minor carps)
8.	Constraints identified and feedback for research	Seed production technology for different minor carps to be standardized
9.	Process of farmers participation and their reaction	IMC fish seed, pond and feeding management

Thematic area: Fishery
Problem definition: Less income from Indian major carps (Catla, Rohu, Mrigal) with limited yield after 10months of culture period Technology assessed: Assessment of different combination of carps in aquaculture System Table:

	No of	Yield component		V: -1.J	Cost of	Cara an matarana	Net	DC
Technology option	No. of trials	Avg. wt of carps (gm)	Month for table size	Yield (q/ ha.)	cultivation (Rs./ha)	Gross return (Rs/ha)	return (Rs./ha)	BC ratio
FP:Stocking with Indian major carps @6000 nos. of advanced fingerling per ha. with 10months of culture practice.	5	850	10	23.25	131320	279000	147680	2.12
TO <sub>1</sub> : FP.+ Exotic carp (Silver carp, Grass carp and Common carp) @1000 nos. of advanced fingerling per ha.	5	1200	6	26.58	155830	352250	196420	2.26
TO <sub>2</sub> :TO <sub>1</sub> + Minor carp and Barb ( <i>P. gonionotus</i> ) @3000 nos. of fingerling per ha	5	1300	6	26.81	163350	382500	219150	2.34

1.	Title of On farm Trial	Assessment of the incorporation of Amur carp in composite carp culture
2.	Problem diagnosed	Slow growth rate of Mrigal affects the average yield from composite carp culture
3.	Details of technologies selected for assessment/refinement	Assessment FP: Catla: Rohu: Mrigal (30:40:30) TO <sub>1</sub> :Catla: Rohu: Mrigal: Amur carp (30:40:20:10) TO <sub>2</sub> : Catla: Rohu: Mrigal: Amur carp (30:40:10:20)
4.	Source of Technology	UAS, Bangalore, 2015
5.	Production system and thematic area	Pond based and Varietal Evaluation
6.	Performance of the Technology with performance indicators	Growth rate (%), Yield (q/ha), B:C ratio
7.	Final recommendation for micro level situation	Amur carp should be stocked with advanced fingerling
8.	Constraints identified and feedback for research	Availability of Amur carp fingerlings should be sufficiently available to the farmers
9.	Process of farmers participation and their reaction	Carp stocking, pond management and feeding management

Thematic area: Production and Management
Problem definition: Slow growth rate of mrigal affects the average yield from composite carp culture
Technology assessed: Assessment the incorporation of Amur carp in composite carp culture

Table:

	No. of	Yiel	ld component	Yield	Cost of	Gross return	Net return	ВС
Technology option	trials	Avg. wt of carps (gm)	Growth rate per month (6month) (%)	(q/ha)	cultivation (Rs./ha)	(Rs/ha)	(Rs./ha)	ratio
FP :Mrigal as bottom feeder with stocking rate of more than 30%	5	480	80	24.15	131620	275500	143880	2.09
TO <sub>1</sub> : Stocking ratio catla: rohu: mrigal: Amur carp:: 30:40:20:10	5	680	113.3	25.68	157850	356850	199000	2.26
TO <sub>2</sub> : Stocking ratio catla: rohu: mrigal: Amur carp:: 30:40:10:20	5	750	125	26.78	164430	385300	220870	2.34

1.	Title of On farm Trial	Assessment of different substrates in vermicompost production
2.	Problem diagnosed	Non-commercialisation of Organic wastage
3.	Details of technologies selected for assessment/refinement	Assessment FP:Vermicomposting from Cow dung + vegetable waste (2:3) TO <sub>1</sub> : Vermicomposting from Cow dung + Crop residue (2:3) TO <sub>2</sub> : Vermicomposting from Cow dung + spent mushroom substrate (2:3)
4.	Source of Technology	KVK, OUAT, 2012
5.	Production system and thematic area	Homestead, Enterprise development
6.	Performance of the Technology with performance indicators	N-P-K status of the vermicompost (%), Conversion period (days), Conversion ratio,B:C ratio
7.	Final recommendation for micro level situation	Spent mushroom substrate can be better utilized with cow dung in 3:2 for vermicompost production.
8.	Constraints identified and feedback for research	Foul smell from spent mushroom substarate&Formulation of a chemical for quick decomposition other substrates without hampering the microbial activity
9.	Process of farmers participation and their reaction	Active participation in moisture maintenance &harvesting at regular interval. Farm women are overwhelmed as they are now able to earn extra income from mushroom wastages.

Thematic area: Enterprise development
Problem definition: Non-commercialisation of Organic wastage
Technology assessed: Assessment of different substrates in vermicompost production
Table:

		Yield	component	Cost of cultivation		Net	
Technology option	No. of trials	N-P-K (%)	Conversion % of substrate after 3 months	(Rs./1 Q of substrate/annum)	Gross return (Rs.)	return (Rs.)	BC ratio
FP :Vermicomposting from Cow dung + vegetable waste (2:3)	7	1.37:1.04:1.13	16	480	640	160	1.33
TO <sub>1</sub> : Vermicomposting from Cow dung + Crop residue (2:3)	7	2.26:1.73:1.84	57	1240	2280	1040	1.74
TO <sub>2</sub> : Vermicomposting from Cow dung + spent mushroom substrate (2:3)	7	2.08:0.91:0.62	64	1320	2560	1240	1.93

1.	Title of On farm Trial	Assessment the efficiency of solar drier for value added products
2.	Problem diagnosed	Potato chips through open sun drying is a more time consuming and poor hygienic process
3.	Details of technologies selected for assessment/refinement	Assessment FP:Drying of Potato slices through open sun drying followed by blanching treatment with salt water TO <sub>1</sub> :Drying of Potato slices through oven drying followed by blanching treatment with 2 gm. Potassium metabisulphite solution TO <sub>2</sub> :Drying of Potato slices through Solar drier followed by blanching treatment with 2 gm. Potassium metabisulphite solution
4.	Source of Technology	OUAT, 2012
5.	Production system and thematic area	Homestead
6.	Performance of the Technology with performance indicators	Drying period (days), sensory evaluation (9- Point hedonic scale),BC Ratio, farmers feedback
7.	Final recommendation for micro level situation	Potato chips can be prepared in Solar dryer in more hygienic way with less time
8.	Constraints identified and feedback for research	Poor availability of the machine & Fixing of more reflectors to quicken the process
9.	Process of farmers participation and their reaction	Women are actively involved in making of potato chips & showed their interest towards the solar drier as it can alsoused for drying of papad, banana chips.

Thematic area: value addition

Problem definition: Potato chips through open sun drying is a more time consuming and poor hygienic process Technology assessed: Assessment the efficiency of solar drier for value added products

Table:

Table.								
		Yield compone	ent	Drying	Cost of	Gross	Net	
Technology option	No. of trials	Overall acceptability (0-9 point hedonic scale)	Moisture (%)	period (h)our)	intervention (Rs./ha)	return (Rs/ha)	return (Rs./ha)	BC ratio
FP:Drying of Potato slices through open sun								
drying followed by blanching treatment with salt	7	6	9.4	14	500	900	400	1.8
water								
TO <sub>1</sub> :Drying of Potato slices through oven drying								
followed by blanching treatment with 2 gm.	7	8	8.9	7	500	990	490	1.98
Potassium metabisulphite solution								
TO <sub>2</sub> :Drying of Potato slices through Solar drier								
followed by blanching treatment with 2 gm.	7	8	9.1	10	530	990	460	1.86
Potassium metabisulphite solution								

### 3.2 Achievements of Frontline Demonstrations

# A. Details of FLDs conducted during the year Cereals

CI		Thomatic		Area (ha)		No. of	farmers/c	demonstra	ation	Reasons for
Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Droposad	A otual	SC	ST	Others	Total	shortfall in
110.		area		Proposed	Actual	M F	M F	M F	M F T	achievement
1	Rice	Fertilizer management	<b>Demonstration on green manuring in rice</b> (Green manuring of sunhemp/ Dhanicha in paddy with seed rate 10kg/acre)	8	8	2	3	5	10	
2	Rice	Fertilizer management	Demonstration of customised leaf colour chart (LCC) for nitrogen management in rice (Application of nitrogeneous fertiliser based on LCC reading)	4	4	4	8	28	40	
3	Rice	Organic	Demonstration of organic rice production (Scented rice Var. NuaAcharamati spraying of Bacillus thuringiensis (Bt), green manuring with Dhanicha, spraying of NSKE 5% (extract from 10KG diluted to200lit/acre & release of Trichogramma japonicum @40000/wk.)	0.4	0.4	0	0	10	10	
4	Rice	IPM	Popularization of new generation pesticide for management of leaf folder in rice (Flubendiamide240 SC + Thiacloprid 240 SC @300ml/Ha to be appllied at tillering and panicle initiat ion stage)	1	1	1	1	8	10	

Details of farming situation

		Farming situation	~	Status o	f soil(Kg	/ha)	Previous		Harvest	Seasonal	No. of
Crop	Season	(RF/Irrigated)	Soil type	N	P2O5	K2O	crop	Sowing date	date	rainfall (mm)	rainy days
Rice	Kharif	Irrigated medium land	Red laterite	248	56	220	Fallow	12.06.2018	15.11.2018	1998	42
Rice	Kharif	Irrigated medium land	Red laterite	235	66	190	fallow	20.06.2018	20.11.2018	1998	42
Rice	Kharif	Rainfed upland	Red laterite	219	41	245	fallow	17.06.2018	12.11.2018	1998	42
Rice	Kharif	Irrigated medium land	Red laterite	330	54	225	paddy	10.06.18	08.12.2018	1998	42

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 oilseed crops

Cuon	Thematic	Name of the	No. of	Area	Yield	(q/ha)	%	*Ecor	nomics of (Rs./		ation	*]	Economics (Rs./		, k
Crop	Area	technology demonstrated	Farmers	(ha)	Demo	Check	Increase	Gross	Gross	Net	** PCD	Gross	Gross	Net	** PCD
Groundnut	IDM	Demonstration of Integrated Management of Disease Complex in Groundnut (Seed treatment with Tebuconazole 25WG @ 1.5gm/kg seed, Furrow application of Trichoderma viridae@ 4kg innoculated with 50kg of FYM, broadcasting of Trichoderma viridae at @4kg innoculated with 250kg FYM AT 40DAS, 2 sprays of Tebuconazole 25.9EC@ @1ml/lit at 60&75 DAS)	10	1	15.9	11.8	34.7	40000	71550	31550	1.8	35000	<b>Return</b> 53100	18100	1.5

		Demonstration of Eco-friendly pest management in Sesamum													
Sesamum	IPM	(Seed treatment with Imidachloprid 70WG @ 5 gm/kg, intercropping with sesamum + black gram (5:3) with two foliar applications of Triazophos 40EC @ 2 ml/lit)	10	1	.7.04	4.17	68	11000	24640	13640	2.24	9000	14595	5595	1.6

<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

# Frontline demonstration on pulse crops

Cmom	Thematic	Name of the	No. of	Area	Yield (q/l	ıa)	% Increase	*Eco	(Rs.	demonstr /ha)	ation	*	Economic (Rs.	es of check /ha)	\$
Crop	Area	technology demonstrated	Farmers	(ha)	Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Geengram	Integrated Weed Management	Demonstration on IWM in greengram (Application of pre-emergence weedicide (Pendimethalin 30EC @ 2000 ml/ha) within 3rd day and post-emergence (Quizalo-fop-Ethyl 5% Ec @ 1000 ml/ha at 20DAS)	10	1	4.2	3.5	20	12000	21000	8000	1:1.61	13200	17500	4300	1:1.3
Greengram	Post-harvest management	Demonstration on grain pro super bag for storage of greengram seeds (Use of grain pro super bag for storage of pulse seeds)	10	1	Insect infestation% 2.2% Germination % 82%	17.5% 74%	10.8	5200	6800	1600	1:1.3	5040	5750	710	1:1.14

<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 crops

	Thematic	Name of the	No. of	Area	Yield (	(q/ha)	% change	Other para	meters	*Eco	nomics of (Rs./		ation	*		cs of check /ha)	ζ.
Crop	area	technology demonstrated	Farmer	(ha)	Demons ration	Check	in yield	Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rice	INM	Demonstration on greenmanuring in rice (Green manuring of sunhemp/ Dhanicha in paddy with seed rate 10kg/acre)	10	8.0	38.9	36.8	14	No. of tillers/m2 241	236g	49000	68075	19075	1:1.4	46600	64400	17800	1:1.38
Rice	INM	Demonstration of 30ember30r30r leaf colour chart (LCC) for nitrogen management in rice (Application of nitrogeneous30ember30 r30r based on LCC reading)	40	4.0	40.2	38.6	3.6	268	231	49500	70350	20850	1:1.42	48450	67550	19100	1:1.39
Rice	Organic	Demonstration of organic rice production (Scented rice Var. NuaAcharamati spraying of Bacillus thuringiensis (Bt), green manuring with Dhanicha, spraying of NSKE 5% (extract from 10KG diluted to200lit/acre & release of Trichogramma japonicum @40000/wk.)	10	1	35.1	29.6	18.5	Plant ht. (cm. 141	147	30200	60400	30200	2.0	12140	20640	8500	1.7

Cmam	Thematic	Name of the technology	No. of	Area	Yield (	q/ha)	% change	Other para	meters	*Eco	nomics of (Rs./	demonstra ha)	tion	1	Economic (Rs.	cs of check /ha)	ζ.
Crop	area	demonstrated	Farmer	(ha)	Demons ration	Check	in yield	Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Rice	IPM	Popularization of new generation pesticide for management of leaf folder in rice (Flubendiamide240 SC + Thiacloprid 240 SC @300ml/Ha to be appllied at tillering and panicle initiat ion stage)	10	1	42.6	30	42	No.of effective tiller- 30	27	55000	74550	19550	1.35	45000	52500	7500	1.16
Onion	Varietal Evaluation	Popularization of Kharif onion Bhima super (Growing Kharif Onion Bhima Super)	10	0.3	140	72	94	56	-	60000	140000	80000	2.33	43000	72000	19000	1.62
Tuberose	Varietal Evaluation	Popularization of Tuberose "Arka Prajwal – Tube rose "Arka Prajwal"	10	0.1	76	32	237	1.05	-	100000	304000	153000	3.04	36500	64000	27500	1.75
Mango	Production management	Demonstration of plastic mulching in new mango orchard- Mulching with drip irrigation	10	1	10.2	9.6	9	-	-	15300	5464	9836	2.8	14400	6000	8400	2.4

## Livestock

Category	Thematic Area	Name of the technology	No. of Farmer	No.of units	Maj param (Live bookg./9m	eters dy wt. –	% change in major	Other pa (No. eggs/m	of	*Eco	nomics of (R		ation	*	Economic (R		£.
		demonstrated			Demons ration	Check	parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	
Buffalo																	
Poultry	Backyard	Rearing management of Rainbow Rooster with timely vaccination (Rearing management of Rainbow Rooster with timely vaccination)	10	100	2.6	1.2	116	12	5	3000	6600	3600	2.2	1930	3480	1550	1.8
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others (pl.specify)																	
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**

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Maj param (Product q/h	eters tivity in	% change in major parameter	Other pa (Avg. boo 8month	dy wt in	*Econ	omics of o	lemonstra .)	tion	*]	Economics (Rs		
		demonstrated			Demons ration	Check	parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Ornamental fishes																	
Indian Major Carps	Feeding Management	Supplementary feeding management(Floating feed) in pisciculture (Commercially formulated fish feed (with protein, fat, vitamins and mineral mix) of floating type (5- 2% of avg. B. wt.)	10	10	38.5	21.2	81.6	890	540	269500	462000	192500	1.71	116600	254400	137800	2.18
Indian Major Carps	Varietal Evaluation	Improved Rohu breed  "Jayanti" (Replacement of "Jayanti" rohu fingerlings with normal rohu in the pond based culture system)	10	10	26.8	22.2	20.7	780	650	140400	321600	181200	2.29	111000	244200	133200	2.2

<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

Category	Name of the technology	No. of Farmer	No.of units	Maj param (yield-gr	eters	% change in major	(No.of	arameter days for formation)	*Eco	nomics of (Rs.) or	demonstra Rs./unit	ation			ics of chec Rs./unit	k
	demonstrated	rannei	units	Demons ration	Check	parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Paddy straw mushroom	Demonstration on production of Paddy straw mushroom with threshed straw production of P.S.M with(5kg straw,Pulse powder 3%,Soaking period 5hr)	10	100	450	500	(-)10%	9	8	3600	5400	1800	1.5	4300	6000	1700	1.39
Button mushroom																
Vermicompost																
Sericulture		-														
Apiculture																

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

|--|

**Farm Implements and Machinery** 

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change	Labor reduction (man days)			Cost reduction (Rs./ha or Rs./Unit)				
					Demons ration	Check	in major parameter								
Seed cum fertilizer drill	Finger millet	Demonstration of tractor drawn seed cum fertiliser drill for sowing of finger millet- Sowing of finger millet by tractor drawn seed cum fertilizer drill var. Vairabi	10	10	2.5 hr/ha	350hr/ha	98	2	41	39	95	1500	7500	6000	80
Power Weeder	Brinjal	Demonstration on Power Weeder for weeding in Brinjal - Weeding in Brinjal by power weeder	10	1	0.04 ha/hr	0.02	50	7	20	13	65	3600	6000	2400	40
Solar Pump	Vegetable	Popularization of Nano Solar Pump for irrigation in Kitchen Garden- Use of solar Nano Pump for irrigation in kitchen garden	10	0.5	700 ltr	500 ltr	40	0.5	2	1.5	75	150	600	450	75

<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/ha) / major para	meter	Economics (Rs./ha)					
Cereals				Demo	Local check	% change	GrossCost	GrossReturn	NetReturn	BCR		
Bajra												
Maize												
Paddy												
Sorghum												
Wheat												
Others (Pl.specify)												
Total												
Oilseeds												

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield	(kg/ha) / major para	ameter		Economics	(Rs./ha)	
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (Pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato	Arka Rakshak	10	1	425	390	8.9	70800	127500	56700	1.80
Water melon	Patengra	10	1	220	206	6.7	70000	154000	84000	2.2
Okra										
Onion										
Potato										
Field bean										
Others (Pl.specify)										
Total										
Commercial crops										
Cotton										
Coconut										
Others (Pl.specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)					
Sorghum (Fodder)												
Others (Pl.specify)												

#### Technical Feedback on the demonstrated technologies

Sl. No	Сгор	Feed Back
1	Rice	Green manuring increases the yield of rice to 10-15% and improve the soil fertility status.
2	Rice	LCC reduces excessive use of N-fertilizer and cheapest & easiest tool for nitrogen management.
3	Rice	Development of short duration scented paddy
4	Rice	Research on triple resistant (Stem borer, Leaf folder& case worm) paddy varieties
5	Finger millet	Development of fingermillet trans planter
6	Greengram	Reduces the labour cost for weeding and increase in yield up to 20%
7	Greengram	Less deterioration of seed quality and 10% increase in germination % as stored in grain pro super bag.
8	Groundnut	Development of suitable variety of groundnut resistant to foliar disease
9	Sesamum	Selection of suitable trap crop for capsule borer
10	Tomato	Development of tomato var. that can be cultivated thorough out the year
11	Onion	Bhima Super is suitable for 38ember season and should be promoted for 38ember cultivation.
12	Tuberose	Tuberose"Arka Prajwal" should be promoted for commercial floriculture.
13	watermelon	More research should be done on fruit cracking of watermelon.
14	Plastic mulching	Research should be done on Bio-Degradable and eco-friendly plastic mulch.
15	Nano Solar Pump	Low cost solar panel should be promoted for better adaptable among farmer.
16	Power Weeder	Provision for More Govt.subsidy for more horizontal spread of the technology.
17	Paddy Straw mushroom	More Research on alternate substrate for paddy straw mushroom.
18	Poultry	Promotion of Brooding center at village level for better adaptability.
19	Fishery	Supplementary feeding enhances the body wt.
20	Fishery	Advanced Jayanti Fingerling shows better growth

### 4.Extension and Training activities under FLD

Sl.No.	Activity	Date	No. of Activities Organized	Number of Participants	Remarks
1.	Field days	08.10.18,02.02.19 05.11.18.	3	130	Wilt resstanttomato Hybrid var. Arka Rakshak Mushroom production from threshed straw Disease management in Groundnut

2.	Farmers Training	05.06.18,08.06.18, 30.06.18, 8.07.18, 14.08.18,27.08.18, 28.08.18,25.09.18 25.11.18,14.12.18, 31.12.18,31.12.18, 01.01.19,10.01.19	12	280	Training includes F& FW, Rural youth
3.	Media coverage	18.02.19,	4	Mass	Tomato Production, Disease management in groundnut Fingerlings production,Income generating activities for farm women
4.	Training for extension functionaries	02.11.18	2	30	Organic Tomato production,seed sampling & quality testing ofgreengram

# Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2018, Rabi 2018-19 & Summer 2019:

#### A. Technical Parameters:

Sl	Crop	Exist ing (Far	Exis ting	Yield	d gap (Kg/ha) w.r.to		N P.V 4	Nu m be	Ar	Yield obtained			Yield gap minimized		
N o.	demo nstrat ed	mer' s) varie ty name	yiel d (q/h a)	Distr ict yield (D)	Stat e yiel d (S)	Pote ntial yield (P)	Name of Variety + Technology demonstrated	r of far me rs	ea in ha	M ax.	(q/ha) Mi n.	A v.	D	(%) S	P
1	Gree ngra m Var.I PM- 02-3	Kalic hikni	2.5	2.0	1.68	11	Var.IPM-02-03 Line sowing behind plough 30 cm x 10 cm, Seed treatment with Rhizobium culture @ 20gm/kg seed, STBF Application of Phospho- Gypsum @ 2.5Q/Ha. Spraying of Indoxacarb 15.8 SL@ 1ml/5litrs of water	80	20	8. 3	6	7. 3 2	1 0 0	1 0 0	6 6
2	Pigeo n pea Var.P RG- 176	Kand ula	6.2	3.2	4.3	12	HYV Seed-PRG- 176, HYV Seed- PRG-176, Line sowing behind plough 60cm x 30cm, Seed treatment with Rhizobium culture @20 gm/kg seed, STBF, Spraying of Hormone Planofix @1ml/4.5lit, spraying of pesticide	17 5	30	11 .7	9. 9	1 0. 4	1 0 0	1 0 0	8 6

Sl	Crop	Exist ing (Far	Exis ting	Yield	l gap (K w.r.to	(g/ha)	Name of Variety	Nu m be	Ar	ol	Yield btaine	d	miı	eld ga	
· N o.	demo nstrat ed	mer' s) varie ty name	yiel d (q/h a)	Distr ict yield (D)	Stat e yiel d (S)	Pote ntial yield (P)	+ Technology demonstrated	r of far me rs	ea in ha	M ax.	(q/ha) Mi n.	A v.	D	(%) S	P
							Prophenophos 50 EC @2ml/lit.								
3	Gree ngra m Var.I PM- 02-14	Bais akhi	5.6	495	480	1200	Var.IPM-02-14 Line sowing behind plough 25cm x10cm & sowing by Happy seeder, Seed treatment with Vitavax Power @ 2.5 gm/kg & Rhizobium culture @ 20 gm/kg seed, STBF, Application of Phospho- Gypsum @ 2.5Q/Ha. Spraying of Indoxacarb 15.8SL @ 1ml/5litrs of water, Spraying of Sulphur 80WP @ 5 gm. /ltr of water	21 3	50	9. 97	7. 6	8. 3 8	1 0 0	1 0 0	6 9 . 8
1	Grou nd nut	TM V-2	11.3	1205	146 0	2000	Var.Devi Line sowing behind plough30cmx10c mSeed treatment with Vitavax Power @2.5gm/kg seed, STBF, Application of Phospho- Gypsum@ 2.5Q/Ha. Spraying of Profenophos 50EC @2 ml/litre of waterSpraying of Carbendazim 12%% plus Mancozeb 63% @3gm/Lit of water	15 9	20	14 .4 5	10 .1	1 2. 9	1 0 0	8 2	6 0

SI	Crop	Exist ing (Far mer'	Exis ting yiel	Yield gap (Kg/ha) w.r.to		(g/ha)	Name of Variety	Nu m be	Ar	Yield obtained (q/ha)			Yield gap minimized (%)		
N o.	demo nstrat ed	mer' s) varie ty name	yiel d (q/h a)	Distr ict yield (D)	e yiel d (S)	Pote ntial yield (P)	+ Technology demonstrated	r of far me rs	ea in ha	M ax.	Mi n.	A v.	D	S	P
1	Grou nd nut	Smur	16.6	2385	193	2500	Var.Devi Line sowing behind plough30cmx10c m Seed treatment with Vitavax power @ 2.5gm/kg of seeds, STBF, Application of Phospho- Gypsum@ 2.5Q/Ha. Spraying of Chloropyrifos 50% + Cypermethrin 5% EC @ 0.5ml / lit of water. Spraying of Carbendazim 12%+ Mancozeb 63% @ 3gm /Lit of water	69	20	22 .5 6	18 .8 1	2 0. 9	8 7. 6 3	1 0 0	8 3 . 6

**B.** Economic parameters

	Variaty damanatuated	Fa	rmer's Ex	isting plot	t	Demonstration plot					
Sl. No.	Variety demonstrated & Technology demonstrated	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio		
1	Var.IPM-02-03 Line sowing behind plough 30 cm x 10 cm, Seed treatment with Rhizobium culture @ 20gm/kg seed, STBF, Application of Phospho- Gypsum @ 2.5Q/Ha. Spraying of Indoxacarb 15.8 SL@ 1ml/5litrs of water	14670	24662	9992	1.68	19780	36600	14820	1.85		
2	HYV SEED-PRG-176, HYV SEED-PRG-176, Line sowing behind plough 60cm x 30cm, Seed treatment with Rhizobium culture @20 gm/kg seed, STBF, Spraying of Hormone Planofix @1ml/4.5lit, spraying of pesticide Prophenophos 50 EC @2ml/lit.	18300	31000	12700	1.69	29500	62400	32900	2.11		
3	Var.IPM-02-14, Line sowing behind plough	23000	28000	5000	1.21	26500	41900	15400	1.58		

	Vanistry damanatusta d	Fa	rmer's Ex	isting plot	t	Demonstration plot					
Sl. No.	Variety demonstrated & Technology demonstrated	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C Ratio		
	25cm x10cm & sowing by Happy seeder, Seed treatment with Vitavax Power @ 2.5 gm/kg & Rhizobium culture @ 20 gm/kg seed, STBF, Application of Phospho-Gypsum @ 2.5Q/Ha.  Spraying of Indoxacarb  15.8SL @ 1ml/5litrs of water, Spraying of Sulphur 80WP @ 5 gm. /ltr of water										
4	Var.Devi,Line sowing behind plough 30cmx10cm,Seed treatment with Vitavax Power @ 2.5gm/kg seed , STBF, Application of Phospho – Gypsum @ 2.5Q/Ha. Spraying of Profenophos 50EC @2ml/litre of water, Spraying of Carbendazim 12%% plus Mancozeb 63% @3gm /Lit of water	31000	44200	13200	1.33	42000	64500	22500	1.53		
5	Var.Devi, Line sowing behind plough 30cmx10cm, Seed treatment with Vitavax power @ 2.5gm/kg of seeds, STBF, Application of Phospho-Gypsum@ 2.5Q/Ha. Spraying of Chloropyrifos 50% + Cypermethrin 5% EC @ 0.5ml / lit of water. Spraying of Carbendazim 12%+ Mancozeb 63% @ 3gm /Lit of water	39060	66400	27340	1.69	41390	83600	42210	2.01		

C. Socio-economic impact parameters

Sl. N o.	Crop and variety Demonstrated	Total Produ ce Obtai ned (kg)	Produ ce sold (Kg/h ouseh old)	Sellin g Rate (Rs/K g)	Produ ce used for own sowin g (Kg)	Produ ce distrib uted to other farmer s (Kg)	Purpose for which income gained was utilized	Employ ment Generat ed (Manda ys/house hold)
1	Var.IPM-02-03, Line sowing behind plough 30 cm x 10 cm, Seed treatment with Rhizobium culture @ 20gm /kg seed, STBF, Application of Phospho-Gypsum @ 2.5Q/Ha.  Spraying of Indoxacarb 15.8 SL@ 1ml/5litrs of water	14650	11720	50	1600	1330	Labour payment, payment of fertilizer and pesticides dues, purches of grocery ,and school uniform for children	37
2	HYV Seed-PRG-176, HYV Seed-PRG-176, Line	31371	26665	60	1450	3306	Labour payment,	24

Sl. N	Crop and variety Demonstrated	Total Produ ce Obtai ned (kg)	Produ ce sold (Kg/h ouseh old)	Sellin g Rate (Rs/K g)	Produ ce used for own sowin g (Kg)	Produ ce distrib uted to other farmer s (Kg)	Purpose for which income gained was utilized	Employ ment Generat ed (Manda ys/house hold)
	sowing behind plough 60cm x 30cm, Seed treatment with Rhizobium culture @20 gm/kg seed, STBF, Spraying of Hormone Planofix @1ml/4.5lit, spraying of pesticide Prophenophos 50 EC @2ml/lit.						payment of fertilizer and pesticides dues, purchase of grocery & stationeries, ornaments	
3	Var.IPM-02-14, Line sowing behind plough 25cm x10cm & sowing by Happy seeder, Seed treatment with Vitavax Power @ 2.5 gm/kg & Rhizobium culture @ 20 gm/kg seed, STBF, Application of Phospho-Gypsum @ 2.5Q/Ha.  Spraying of Indoxacarb  15.8SL @ 1ml/5litrs of water, Spraying of Sulphur 80WP @ 5 gm. /ltr of water	25866	20690	50	2560	2616	Loan repayment, purchase of grocery, school uniform for children	35
4	Var.Devi,Line sowing behind plough 30cmx10cm,Seed treatment with Vitavax Power @ 2.5gm/kg seed , STBF, Application of Phospho – Gypsum @ 2.5Q/Ha. Spraying of Profenophos 50EC @2ml/litre of water, Spraying of Carbendazim 12%% plus Mancozeb 63% @3gm/Lit of water	41945	35595	50	3350	3000	Labour Payment, loan payment, purchase of grocery, Dress material for family members, school uniform for children, Purchase of mobile voucher, utensil, Payment of electric bill.	45
5	Var.Devi, Line sowing behind plough 30cmx10cm, Seed treatment with Vitavax power @ 2.5gm/kg of seeds, STBF, Application of Phospho-Gypsum@ 2.5Q/Ha. Spraying of Chloropyrifos 50% + Cypermethrin 5% EC @ 0.5ml / lit of water. Spraying of Carbendazim 12%+ Mancozeb 63% @ 3gm /Lit of water	41806	540	30	90	55	Labour Payment, loan payment, purchase of grocery, clothes for family members, Payment of electricity bill.	41

D. Pulses & Oilseed Farmers' perception of the intervention demonstrated

	D. Pulses & Oilseed Farme	is perc	*			arameters						
SI. N o.	Technologies demonstrated (with name)	Suitabi lity to their farmin g system	Likings (Preferen ce)	Affor dabili ty	Any negati ve effect	Is Technolog y acceptable to all in the group/villa ge	Suggestion s, for change/ improveme nt, if any					
1	Var.IPM-02-03 Line sowing behind plough 30 cm x 10 cm, Seed treatment with Rhizobium culture @ 20gm /kg seed, STBF, Application of Phospho- Gypsum @ 2.5Q/Ha. Spraying of Indoxacarb 15.8 SL@ 1ml/5litrs of water	ideal	KVK,state agri.Dept, ICAR, NGO,I nput dealer	Good	No	yes	Need for Procurement of produce from farmers at MSP through RMCs					
2	HYV SEED-PRG-176, HYV SEED-PRG-176, Line sowing behind plough 60cm x 30cm, Seed treatment with Rhizobium culture @20 gm/kg seed, STBF, Spraying of Hormone Planofix @1ml/4.5lit, spraying of pesticide Prophenophos 50 EC @2ml/lit.	ideal	KVK, state agri. Dept, ICAR, NGO, Input dealer	Good	Suscep table to <u>Helico</u> <u>verpaa</u> <u>rmiger</u> <u>a</u>	yes	Exposure visit of farmers to other states/areas.					
3	Var.IPM-02-14, Line sowing behind plough 25cm x10cm & sowing by Happy seeder, Seed treatment with Vitavax Power @ 2.5 gm/kg & Rhizobium culture @ 20 gm/kg seed, STBF, Application of Phospho-Gypsum @ 2.5Q/Ha. Spraying of Indoxacarb 15.8SL @ 1ml/5litrs of water, Spraying of Sulphur 80WP @ 5 gm. /ltr of water	Ideal	KVK, State Agricultur e Departmen t, NGOs, Input dealer, State level institutes.	Moder ate	Weed proble m, uprooti ng proble m	Yes	Bulk procurement by Government at MSP					
4	Var.Devi,Line sowing behind plough 30cmx10cm,Seed treatment with Vitavax Power @ 2.5gm/kg seed , STBF, Application of Phospho – Gypsum @ 2.5Q/Ha. Spraying of Profenophos 50EC @2ml/litre of water, Spraying of Carbendazim 12%% plus Mancozeb 63% @3gm/Lit of water	ideal	KVK, State Agri. Dept, ICAR, NGO, Input dealer	Mediu m	Less fruiting in late winter sown crop	Yes by 82 % farmer	Purchase of pulses by RMCs					
5	Var.Devi, Line sowing behind plough 30cmx10cm, Seed treatment with Vitavax power @ 2.5gm/kg of seeds, STBF, Application of Phospho-Gypsum @ 2.5Q/Ha. Spraying of Chloropyrifos 50% + Cypermethrin 5% EC @ 0.5ml / lit of water. Spraying of	ideal	KVK, State Agri. Dept, ICAR, NGO, Input dealer	Good	No	yes	Purchase of groundnut at MSP by govt. agencies.					

			Farn	ners' Per	ception p	arameters	
Sl. N o.	Technologies demonstrated (with name)	Suitabi lity to their farmin g system	Likings (Preferen ce)	Affor dabili ty	Any negati ve effect	Is Technolog y acceptable to all in the group/villa ge	Suggestion s, for change/ improveme nt, if any
	Carbendazim 12% + Mancozeb 63% @ 3gm /Lit of water						

E. Specific Characteristics of Technology and Performance

E. Specific Characteristics of Technology and Performance												
Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback									
Green Gram – Var.IPM-02-3, Line sowing behind plough 30cm x 10cm, Seed treatment with Rhizobium culture @ 20gm/kg seed, STBF, Application of Phospho-	Pods/plant  Plant height Test	Av pods/plant(Demo)- 46 pods/plant(check)-32 Av 63cm(Demo) 67 cm (check)	Pod filling was better in rhizobium treated plants Colour of seeds was more shining in 45ember45r-									
Gypsum @2.5Q/Ha. Spraying of Indoxacarb 15.8SL @ 1ml/5litrs of water	weight(gm)	35.28gm(Demo) 31.8 gm(Check)	Gypsum plots									
Pigeonpea VAR.PRG-176 HYV Seed-PRG-176,Line sowing behind plough60cmx30cm Seed treatment with Rhizobium culture@20gm/kg seed,STBF Spraying of Hormone Planofix@1ml/4.5lit.spraying of pesticide Prophenophos50EC@2ml/lit.	Pods/plant Plant height Test weight(gm)	268(Demo)-, 155 (check) 234 cm (Demo) 215 cm. (Check) 68gm(Demo) 55 gm(Check)	Pod filling was better in rhizobium treated plants Number of pods in hormone treated plots was 35% more than untreated plots.									
Var.IPM-02-14, resistant to YMV and leaf crinkle disease. Line sowing behind plough 25cmx10cm & sowing by Happy seeder, Seed treatment with VitavaxPower @ 2.5 gm/kg & Rhizobium culture@20gm/kg seed, STBF, Application of Phospho-Gypsum @2.5Q/Ha.Sprayingof Indoxacarb15.8SL@1ml/5litrs of water, Spraying of Sulphur 80WP @ 5 gm. /ltr of water	Pods/plant Plant height	Av 79pods/plant(Demo) 41pods/plant(check) Av 69cm(Demo) 63cm (check)	<ul> <li>Pre Rabi sowing produced more than November-December sowing</li> <li>Pod filling was better in rhizobium treated plants</li> <li>Colour of seeds was more shining in 45ember45r- Gypsum applied plots</li> <li>Occurrence of YMV was very less than 2 %.</li> <li>Fruting habit of the var. is better than Local</li> </ul>									

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Groundnut Varity –Devi, duration 95 days, Bold seeded, White kernel, Thin seed coat, Draught tolerant, Erect/Bunch type	Pods/plant  Plant height	Av 25pods/plant(Demo) 18pods/plant(check)  Av 71cm(Demo) 65cm (check)	Pod filling was     93%inPhospho-Gypsum     treatedplots against 71%     in non-treated plots
Groundnut Varity –Devi, duration 95 days, Bold seeded ,White kernel, Thin seed coat, Draught tolerant, Erect/Bunch type	Pods/plant Plant height	Av 32pods/plant(Demo) 21pods/plant(check) Av 44cm(Demo) 39cm (check)	<ul> <li>Foliar diseases were less in fungicide treated plot.</li> <li>Leaves remain green till harvest in Phospho-Gypsum treated plots</li> <li>Bold seeds were obtained from insecticides treated plots.</li> </ul>

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

Sl. N o.	Extension Activities Organized	Date and Place of Activity	Number of Farmers Attended
	GREENGRAM(Kharif)		
1	Awareness camp on Improved cultivation Technology of Kharif Greengram	Dt.03.08.2018, Vill: Sambalpuri, Block: Ambabhona Dt.19.09.2018, Vill: Gudesira, Block: Bargarh	50 35
2	Group meeting	01.08.2018,03.08.2018, Vill.:Jharmunda, GP:Chhuriapalli, Block: Sohela	35
3	Field visit	31.08.2018, 27.09.2018, 27.10.2018, Vill: Sambalpuri, Block: Ambabhona	47
	PIGEONPEA (Kharif)		
1	Awareness camp on Integrated crop management of Kharif pigeon pea	Dt.11.06.2018, Vill. Sadhupalli, GP: Kanapalli& Vill. Brahmanadei, GP:Rengalli, Block: Shohella	83
2	Field visit	Dt 14.07.2018, 06.11.2018 & 26.09.2018, Vill.Brahmanadei, GP:Rengalli, Block: Shohella, Vill.Charpalli, GP-T.Gandapalli, Block-Bijepur	52
3	Group meeting	Dt13.07.2018, 28.09.2018 & 09.11.2018, Vill.Brahmanadei, GP:Rengalli, Block:Shohella, Vill.Charpalli, GP-T.Gandapalli, Block-Bijepur	45
	GRONDNUT (Kharif)		
1	Field visit	27.7.2018, 01.08.2018 & 18.08.2018, 6.9.2018, 29.92018	85
2	Group meeting	09.10.2018, 11.10.2018, 20.09.2018, 18.08.2018	96
3	Awareness Camp	16.07.2018	100
4	Field day		50
	GREENGRAM (Rabi)		
1	Field visit	6.11.2018, 14.11.2018, 28.11.2018, 7.12.2018, 14.12.2018, 27.12.2018, 10.1.2019, 14.1.2019, 25.1.2019, 29.1.2019 Sambalpuri, Ghuguraplai, Kanheipali, Bakti, Bargaon, Biripali, Putputpali, Silate, Lahanda, Bhadigaon, Nuabatimunda	264
2	Group meeting	2.11.2018, 12.11.2018, 26.11.2018, 7.12.2018, 15.12.2018, 21.12.2018, 26.12.2018, 5.1.2019, 18.1.2019, 22.1.2019, 31.01.19 Nillipali, Jogipali, Putputpali, Silate, Nuabatimunda, Larambha, Bakti, Janhapada, Bhadigaon, Biripali, Kanheipali, Ghugurapali, Bargaon	130
3	Awareness Camp	15.11.2018-Biripali G.P-Rengali Block-Sohela 27.11.2018-Runipali G.P-Mulbar Block-Bhatli	69
4	Field day	29.1.2019, Vil-Kanheipali Block-Ambabhona, Bargarh	100
5	Exposure visit	29.1.2019-Vil-Kanheipali	114
	GRONDNUT (Summer)		
1	Field visit	28.03.2019 & 30.03.2019, Turunga, Singhenpali, Papanga	30
2	Group meeting	2.03.2019,13.03.2019,23.03.2019,28.03.2019,30.03.2019 K.Tikra, Turunga, Jhilminda, Papanga, Singhenpalli	63
3	Awareness Camp	10.1.2019, KVK Campus Bargarh	35
4	Exposure visit	6.4.2019, KVK Demo unit	50

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



Line sown Greengram (Kharif) crop at village: Jharmunda, Block: Shohella, Bargarh



Pigeon pea Crop (Kharif) at peak vegetative stage at village: Charpali, Block: Bijepur, Bargarh



Rabi –Greengram crop at peak vegetative stage- Vil-Runipali Block-Bhatli: Bargarh



Weeding Summer Groundnut at village: Singhenpali ,Bheden Block: Bargarh

#### H. Farmers' Training Photographs



Farmers training at village: Sambalpuri, Block: Ambabhona,Bargarh



Training of Pulse farmers At Vil-KanheipaliOrganised by Nodal officer Seed hub project,OUAT,Bhuabaneswar



Training Programme at Vill: Balijuri, Block: Bhatli, Bargarh, Crop – Kharif Ground Nut



Awareness camp on Integrated pest management of pulses At-Nillipali Block-Attabira Dist-Bargarh

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



Kharif Green Gram crop Visit of Dr Arvind Kumar, DRR, Patna to CFLD sites Bargarh on Dt.11.07.2018



Rabi Green gram Field day At-Kanheipali Block-Ambabhona Dist-Bargarh,29.01.2019



Visit of Dr. Srikant , NRSC, Hyderabad to Vill: Balijuri, Block: Bhatli, Bargarh Crop – Kharif Ground Nut



Field day 49ember groundnut at vil- Kanheipali dated 23.12.2018



Demonstration of Tractor drawn Groundnut Thresher under CFLD Programmne, KVK, Bargarh



Groundnut at Crop Cafeteria inside KVK Campus Bargarh

1. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Pigeon pea (Kharif)	i) Critical input			
	ii) TA/DA/POL etc. for			
	monitoring			
	iii) Extension Activities (Field			
	day)			
	iv) Publication of literature			
	Total	270000	258613	10187
Green gram (Kharif)	i) Critical input			
	ii) TA/DA/POL etc. for			
	monitoring			
	iii) Extension Activities (Field			
	day)			
	iv) Publication of literature			
	Total	180000	163885	16115
Green Gram (Rabi)	i) Critical input			
	ii) TA/DA/POL etc. for			
	monitoring			
	iii) Extension Activities (Field			
	day)			
	iv)Publication of literature			
	Total	450000	376335	74865
Ground nut (Kharif)	i) Critical input			
	ii) TA/DA/POL etc. for			
	monitoring			
	iii) Extension Activities (Field			
	day)			
	iv) Publication of literature	• • • • • • • • • • • • • • • • • • • •	1 501 1=	=10=4
0 1	Total	240000	168147	71853
Ground nut (Summer)	i) Critical input			
	ii) TA/DA/POL etc. for			
	monitoring			
	iii) Extension Activities (Field			
	day)			
	iv) Publication of literature			4.6
	Total	240000	114453	125547

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

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

	No. of		No. of Participants										d
Thematic Area	Courses	Other			SC			ST			Total		
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management											,		
Integrated Crop Management													

	77 0	No. of Participants								Grand				
Thematic Area	No. of	(	Othe			SC			ST		Total			
	Courses	M	F	T	M	F	T	M	F	T	M	F	T	
Fodder production														
Production of organic inputs														
Others, (cultivation of crops)														
II. Horticulture														
a) Vegetable Crops														
Integrated nutrient management														
Water management														
Enterprise development														
Skill development														
Yield increment														
Production of low volume and high value crops														
Off-season vegetables														
Nursery raising														
Export potential vegetables														
Grading and standardization														
Protective cultivation (Green Houses, Shade Net														
etc.)														
Others, if any (Cultivation of Vegetable)														
Training and Pruning														
b) Fruits														
Layout and Management of Orchards														
Cultivation of Fruit														
Management of young plants/orchards														
Rejuvenation of old orchards														
Export potential fruits														
Micro irrigation systems of orchards														
Plant propagation techniques														
Others, if any(INM)														
c) Ornamental Plants														
Nursery Management														
Management of potted plants														
Export potential of ornamental plants														
Propagation techniques of Ornamental Plants														
Others, if any														
d) Plantation crops														
Production and Management technology														
Processing and value addition														
Others, if any														
e) Tuber crops														
Production and Management technology														
Processing and value addition														
Others, if any														
f) Spices														
Production and Management technology														
Processing and value addition														
Others, if any														
g) Medicinal and Aromatic Plants														
Nursery management														
Production and management technology														
Post harvest technology and value addition														
Others, if any														
III. Soil Health and Fertility Management														
Soil fertility management														
Soil and Water Conservation														
Integrated Nutrient Management	1	1 -										1		

	No of	No. of Participants							Grand					
Thematic Area	No. of Courses		Othe			SC			ST		Total			
	Courses	M	F	T	M	F	T	M	F	T	M	F	T	
Production and use of organic inputs													<b></b>	
Management of Problematic soils														
Micro nutrient deficiency in crops														
Nutrient Use Efficiency						-								
Soil and Water Testing Others, if any						-								
IV. Livestock Production and Management														
Dairy Management														
Poultry Management														
Piggery Management														
Rabbit Management														
Disease Management														
Feed management														
Production of quality animal products														
Others, if any Goat farming														
V. Home Science/Women empowerment														
Household food security by kitchen gardening														
and nutrition gardening													l	
Design and development of low/minimum cost														
diet														
Designing and development for high nutrient														
efficiency diet														
Minimization of nutrient loss in processing													<u> </u>	
Gender mainstreaming through SHGs													<b></b>	
Storage loss minimization techniques													<b></b>	
Enterprise development													<del></del>	
Value addition													<b> </b>	
Income generation activities for empowerment of rural Women														
Location specific drudgery reduction technologies														
Rural Crafts														
Capacity building														
Women and child care														
Others, if any														
VI.Agril. Engineering														
Installation and maintenance of micro irrigation														
systems														
Use of Plastics in farming practices														
Production of small tools and implements													<u> </u>	
Repair and maintenance of farm machinery and														
implements														
Small scale processing and value addition													<del></del>	
Post-Harvest Technology														
Others, if any		<u> </u>			<u> </u>								<b></b>	
VII. Plant Protection	1	1 1	2	12	-	_	11	1	0	1	10	7	25	
Integrated Pest Management	1	11	2	13	6	5	11	1	0	1	18	7	25	
Integrated Disease Management		-	-		}					-				
Bio-control of pests and diseases  Production of bio control agents and bio		1			1									
pesticides													l	
Others, if any		+												
VIII. Fisheries														
Integrated fish farming		1			1									
Carp breeding and hatchery management		1												
Carp fry and fingerling rearing		l –												
<u>, , ,</u>	I.			I				I	·	<u> </u>	1			

	No. of	No. of Participants									Grand			
Thematic Area	Courses	(	<b>Othe</b>	r		SC			ST		,	l		
	Courses	M	F	T	M	F	T	M	F	T	M	F	T	
Composite fish culture & fish disease														
Fish feed preparation & its application to fish														
pond, like nursery, rearing & stocking pond														
Hatchery management and culture of freshwater														
prawn														
Breeding and culture of ornamental fishes														
Portable plastic carp hatchery														
Pen culture of fish and prawn														
Shrimp farming														
Edible oyster farming														
Pearl culture														
Fish processing and value addition														
Others, if any														
IX. Production of Inputs at site														
Seed Production														
Planting material production														
Bio-agents production														
Bio-pesticides production														
Bio-fertilizer production														
Vermi-compost production														
Organic manures production														
Production of fry and fingerlings														
Production of Bee-colonies and wax sheets														
Small tools and implements														
Production of livestock feed and fodder														
Production of Fish feed														
Others, if any														
X. Capacity Building and Group Dynamics														
Leadership development														
Group dynamics														
Formation and Management of SHGs														
Mobilization of social capital														
Entrepreneurial development of farmers/youths														
WTO and IPR issues														
Others, if any														
XI Agro-forestry														
Production technologies														
Nursery management														
Integrated Farming Systems														
XII. Others (Pl. Specify)														
TOTAL	1	11	2	13	6	5	11	1	0	1	18	7	25	

#### 2. Rural Youth (on campus)

	No. of			Grand Total									
Thematic Area	Courses	Other			SC			ST			Gra	ma 1	otai
	Courses	M	F	T	M	F	Т	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production	2	13	5	18	3	4	7	0	0	0	16	9	25
Production of organic inputs	1	9	0	9	1	0	1	0	0	0	10	0	10
Integrated Farming													
Planting material production	1	9	0	9	0	0	0	1	0	1	10	0	10

	NI C	No. of Participants										Grand Total			
Thematic Area	No. of	(	Other	•		SC			ST		Gra	ına 1	otai		
	Courses	M	F	T	M	F	T	M	F	Т	M	F	T		
Vermi-culture	1	0	9	9	0	1	1	0	0	0	0	10	10		
Sericulture															
Protected cultivation of vegetable crops	1	11	0	11	3	1	4	0	0	0	14	1	15		
Commercial fruit production															
Repair and maintenance of farm															
machinery and implements															
Nursery Management of Horticulture															
crops															
Training and pruning of orchards															
Value addition															
Production of quality animal products															
Dairying															
Sheep and goat rearing															
Quail farming															
Piggery															
Rabbit farming															
Poultry production															
Ornamental fisheries															
Enterprise development															
Para vets															
Para extension workers															
Composite fish culture															
Freshwater prawn culture															
Shrimp farming															
Pearl culture															
Cold water fisheries															
Fish harvest and processing technology															
Fry and fingerling rearing															
Small scale processing															
Post-Harvest Technology															
Tailoring and Stitching															
Rural Crafts															
TOTAL	6	42	14	56	7	6	13	1	0	1	50	20	70		

3. Extension Personnel (on campus)

	No. of			No.	of P	arti	cipar	nts			G	Fran	d
Thematic Area	Courses	(	<b>Othe</b>	r		SC			ST		7	Γota	l
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Value addition													
Integrated Pest Management													
Integrated Nutrient management	1	12	3	15	3	0	3	0	0	0	15	5	20
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and													
implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													

	No. of			No.	of P	arti	cipar	nts			G	Fran	d
Thematic Area	Courses	(	Othe	r		SC			ST			Γota	1
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
TOTAL	1	12	3	15	3	0	3	0	0	0	15	5	20

D) Farmers and farm women (off campus)

·	NT C	_		No.	of Pa	rtici	pants					1.00	4 1
Thematic Area	No. of		Other			SC			ST		Gr	and To	otai
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation													
Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production	3	65	2	67	3	2	5	3	0	3	71	4	75
Nursery management													
Integrated Crop Management	3	27	35	62	2	0	2	6	5	11	35	40	75
Fodder production													
Production of organic inputs	1	22	1	23	0	0	0	2	0	2	24	1	25
Others, (cultivation of crops)													
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high													
value crops													
Off-season vegetables	2	35	0	35	1	0	1	14	0	14	50	0	50
Nursery raising													
Export potential vegetables	1	20	0	20	2	0	2	3	0	3	25	0	25
Grading and standardization													
Protective cultivation (Green	1	22	2	25	0	0	0	0	0	0	22	2	25
Houses, Shade Net etc.)	1	22	3	25	0	0	0	0	0	0	22	3	25
Others, if any (Cultivation of	1	17	0	17	5	0	5	3	0	3	25	0	25
Vegetable)	1	1 /	U	1 /	3	U	3	3	U	3	23	U	23
Training and Pruning													
b) Fruits													
Layout and Management of													
Orchards													
Cultivation of Fruit													
Management of young													
plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques							1		1				
Others, if any(INM)			t										
c) Ornamental Plants													

	No. of			No	of Pa	articij	pants				C	and To	4-1
Thematic Area	No. 01 Courses		Other			SC			ST		Gr	and 10	otai
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants	1	6	14	20	0	0	0	2	3	5	8	17	25
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management													
technology													
Processing and value addition													
Others, if any													
f) Spices			t	t									
Production and Management	1	1	2	,	1	1.0	1.7	,	2	4	2	22	2.5
technology	1	1	3	4	1	16	17	1	3	4	3	22	25
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management													
technology													
Post-harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility													
Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic													
inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops	-												
Nutrient Use Efficiency Soil and Water Testing													
Others, if any			<del>                                     </del>	<del>                                     </del>									
IV. Livestock Production and			<del>                                     </del>	<del>                                     </del>									
Management													
Dairy Management													
Poultry Management			İ	İ	Ì								
Piggery Management			İ	İ	Ì								
Rabbit Management													
Disease Management													
Feed management	1	24	0	24	0	0	0	1	0	1	25	0	25
Production of quality animal													
products													
Others, if any Goat farming													
V. Home Science/Women													
empowerment													

	N1 C			No	of Pa	articij	pants				C	and To	-4al
Thematic Area	No. of Courses		Other			SC			ST		Gr	and 10	otai
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
Household food security by kitchen	1	0	24	24	0	0	0	0	1	1	0	25	25
gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for													
high nutrient efficiency diet													
Minimization of nutrient loss in													
processing													
Gender mainstreaming through SHGs													
Storage loss minimization	1	0	23	23	0	0	0	0	2	2	0	25	25
techniques	1	Ü	23	23	Ů	L.	Ü	Ů			Ů	23	23
Enterprise development	1	0	25	25	0	0	0	0	0	0	0	25	25
Value addition	2	0	43	43	0	0	0	0	7	7	0	50	50
Income generation activities for empowerment of rural Women													
Location specific drudgery	2	0	38	38	0	0	0	0	12	12	0	50	50
reduction technologies		U	36	36	U	Ü	J	U	12	12	U	50	30
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI.Agril. Engineering													
Installation and maintenance of	1	9	3	12	1	0	1	5	7	12	15	10	25
micro irrigation systems	•					Ů		ŭ	,		10	10	
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	2	45	0	45	4	0	4	1	0	1	50	0	50
Others, if any		43	0	43	4	U	4	1	U	1	30		30
Use of machines	4	69	13	82	11	0	11	6	1	7	86	14	100
VII. Plant Protection													
Integrated Pest Management	3	16	32	48	4	23	27	0	0	0	20	55	75
Integrated Disease Management	4	49	31	80	9	6	15	4	1	5	62	38	100
Bio-control of pests and diseases	1	18	2	20	1	1	2	3	0	3	22	3	25
Production of bio control agents	1	10		20	1	1		3	U	3	22	3	23
and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery													
management													
Carp fry and fingerling rearing	1	23	0	23	0	0	0	2	0	2	25	0	25
Composite fish culture & fish	1	23		-25					,		23		
disease													
Fish feed preparation & its													
application to fish pond, like													
nursery, rearing & stocking pond													
Hatchery management and culture													
of freshwater prawn													

	No. of			No.	of Pa		pants				Cr	and To	otol
Thematic Area	Courses		Other			SC			ST		GI	anu 10	лаі
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
Breeding and culture of ornamental													
fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and													
wax sheets													
Small tools and implements													
Production of livestock feed and													
fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group													
Dynamics													
Leadership development													
Group dynamics													
Formation and Management of													
SHGs													
Mobilization of social capital													
Entrepreneurial development of													
farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	38	468	292	760	44	48	92	56	42	98	568	382	950

#### E)RURAL YOUTH (Off Campus)

				No	of P	arti	cipan	ts			Gra	nd T	otal
Thematic Area	No. of	•	Other	•		SC			ST				
Themauc Area	Courses	M	F	Т	M	F	Т	M	F	Т	M	F	T
Mushroom Production	2	0	25	25	0	2	2	0	3	3	0	30	30
Bee-keeping													
Integrated farming													
Seed production	1	0	0	0	10	0	10	5	0	5	15	0	15
Production of organic inputs													

				No	of P	arti	cipan	ts			Gra	nd T	otal
Thematic Area	No. of	•	Other	r		SC			ST				
Thematic Area	Courses	M	F	Т	M	F	T	M	F	Т	M	F	Т
Integrated Farming													
Planting material production	1	14	0	14	1	0	1	0	0	0	15	0	15
Vermi-culture													l
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													l
Repair and maintenance of farm	3	37	0	37	3	0	3	5	0	5	45	0	45
machinery and implements	3	3/	U	3/	3	U	3	3	U	3	43	U	43
Nursery Management of Horticulture													
crops													ļ
Training and pruning of orchards													ļ
Value addition													ļ
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													l
Rabbit farming													
Poultry production													l
Ornamental fisheries													l
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													l
Fry and fingerling rearing													
Small scale processing													
Post-Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if anyLac Production	1	9	0	9	6	0	6	0	0	0	15	0	15
TOTAL	8	60	25	85	20	2	22	10	3	13	90	30	120

#### F) Extension Personnel (Off Campus)

	No of			No.	of Pa	artici	pants	S			Grand	d Tota	ıl
Thematic Area	No. of Courses		Othe	•		SC			ST				
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	8	0	8	4	1	5	0	1	1	13	2	15
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers													
organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm													
machinery and implements													

	No of			No.	of Pa	artici	pants	S			Gran	d Tota	ıl
Thematic Area	No. of Courses		Othe	ſ		SC			ST				
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet													
designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
TOTAL													

# G) Consolidated table (ON and OFF Campus) i. Farmers& Farm Women

Thematic Area	No. of			No	o. of F	Partici	pants				Gran	d Tota	al
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation													
Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production	3	65	2	67	3	2	5	3	0	3	71	4	75
Nursery management													
Integrated Crop Management	3	27	35	62	2	0	2	6	5	11	35	40	75
Fodder production													
Production of organic inputs	1	22	1	23	0	0	0	2	0	2	24	1	25
Others, (cultivation of crops)													
TOTAL	7	114	38	152	5	2	7	11	5	16	130	45	175
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient													
management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume													
and high value crops													
Off-season vegetables	2	35	0	35	1	0	1	14	0	14	50	0	50
Nursery raising													
Exotic vegetables like													
Broccoli													
Export potential vegetables	1	20	0	20	2	0	2	3	0	3	25	0	25
Grading and standardization													
Protective cultivation (Green	1	22	3	25	0	0	0	0	0	0	22	3	25
Houses, Shade Net etc.)	1	22	3	23	U	U	U	U	U	U	22	<u> </u>	23
Others, if any (Cultivation of	1	17	0	17	5	0	5	3	0	3	25	0	25
Vegetable)					J	U	_	_	U			·	
TOTAL	5	94	3	97	8	0	8	20	0	20	122	3	125
b) Fruits													

Thematic Area	No. of			No	o. of F	Particij	pants				Gran	d Tota	al
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Training and Pruning													
Layout and Management of													
Orchards													
Cultivation of Fruit													
Management of young plants/orchards													ļ
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of													
orchards													ļ
Plant propagation techniques													
Others, if any(INM)													
TOTAL													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of													
ornamental plants													ļ
Propagation techniques of	1	6	14	20	0	0	0	2	3	5	8	17	25
Ornamental Plants	•		1.		Ů							1,	
Others, if any				•			_	_	_				
TOTAL	1	6	14	20	0	0	0	2	3	5	8	17	25
d) Plantation crops													
Production and Management													
technology Processing and value													
addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management													
technology													
Processing and value													
addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management	1	1	3	4	1	16	17	1	3	4	3	22	25
technology	•	•			•	10	1,	•					
Processing and value													
addition Others, if any													
TOTAL	1	1	3	4	1	16	17	1	3	4	3	22	25
g) Medicinal and Aromatic	1	I	3	4	1	10	1 /	1	3	4	3	22	23
Plants													]
Nursery management													
Production and management													
technology													]
Post-harvest technology and													
value addition					<u></u>					L			
Others, if any													
TOTAL													
III. Soil Health and				-							-		
Fertility Management													
Soil fertility management													

Thematic Area	No. of			No	o. of I	Partici	pants				Gran	d Tota	al
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Soil and Water Conservation													
Integrated Nutrient													
Management													
Production and use of													
organic inputs													
Management of Problematic													
soils													
Micro nutrient deficiency in													
crops Nutrient Use Efficiency													-
Soil and Water Testing													-
Others, if any													<del>                                     </del>
TOTAL													<del>                                     </del>
IV. Livestock Production													
and Management													
Dairy Management													-
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management	1	24	0	24	0	0	0	1	0	1	25	0	25
Production of quality animal	1	27	0	27	0	U	U	1	0	1	23	U	23
products													
Others, if any (Goat farming)													
TOTAL	1	24	0	24	0	0	0	1	0	1	25	0	25
V. Home Science/Women	-		Ŭ			·			Ů			Ŭ	
empowerment													
Household food security by													
kitchen gardening and	1	0	24	24	0	0	0	0	1	1	0	25	25
nutrition gardening													
Design and development of													
low/minimum cost diet													
Designing and development													
for high nutrient efficiency													
diet													
Minimization of nutrient loss													
in processing													
Gender mainstreaming													
through SHGs													-
Storage loss minimization	1	0	23	23	0	0	0	0	2	2	0	25	25
techniques Enterprise development	1	0	25	25	0	0	0	0	0		0	25	25
Enterprise development	2	0	25 43	25 43	0	0	0	0	7	7	0	25 50	25
Value addition	2	U	43	43	U	U	U	0	/	/	U	30	50
Income generation activities for empowerment of rural													
Women													
Location specific drudgery													<del>                                     </del>
reduction technologies	2	0	38	38	0	0	0	0	12	12	0	50	50
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													$\vdash$
TOTAL	7	0	153	153	0	0	0	0	22	22	0	175	175
VI.Agril. Engineering	,	J	133	133	0	J	U	0			J	1/3	1/3
, magnituding	I.	l	I	I	1	I	<u> </u>	<u> </u>	1	1	l	l	

Thematic Area	No. of	No. of Participants										d Tota	ıl
	Courses		Other			SC			ST				
		M	F	T	M	F	T	M	F	T	M	F	T
Installation and maintenance	1	9	3	12	1	0	1	5	7	12	15	10	25
of micro irrigation systems	_				_	,		_	,				
Use of Plastics in farming practices													
Production of small tools and													
implements													
Repair and maintenance of	ļ												
farm machinery and	ļ												
implements													
Small scale processing and value addition													
Post-Harvest Technology	2	45	0	45	4	0	4	1	0	1	50	0	50
Others, if any	4	69	13	82	11	0	11	6	1	7	86	14	100
TOTAL	7	123	16	139	16	0	16	12	8	20	151	24	175
VII. Plant Protection													
Integrated Pest Management	4	27	34	61	10	298	28	1	0	1	38	62	100
Integrated Disease	4	40	2.1	90	0	-	1.5	4	1	_	62	20	100
Management	4	49	31	80	9	6	15	4	1	5	62	38	100
Bio-control of pests and	1	18	2	20	1	1	2	3	0	3	22	3	25
diseases	1	10		20	1	1		,	U	3	22	3	23
Production of bio control													
agents and bio pesticides													
Others, if any													
TOTAL	9	94	67	161	20	305	45	8	1	9	122	103	225
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery													
management													
Carp fry and fingerling	1	23	0	23	0	0	0	2	0	2	25	0	25
rearing			Ů			Ŭ			Ů			Ů	
Composite fish culture & fish disease													
Fish feed preparation & its													
application to fish pond, like													
nursery, rearing & stocking													
pond													
Hatchery management and													
culture of freshwater prawn													
Breeding and culture of													
ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
TOTAL	1	23	0	23	0	0	0	2	0	2	25	0	25
IX. Production of Inputs at	1	23	U	23	U	U	U		U		23	U	23
site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Dio-positoraes production	1		l	ı	l	l		1	l .	l .		L	

Thematic Area	No. of			No	Particij			Gran	d Tota	al			
	Courses		Other			SC			ST				
		M	F	T	M	F	Т	M	F	T	M	F	T
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and													
fingerlings													
Production of Bee-colonies													
and wax sheets													
Small tools and implements													
Production of livestock feed													
and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and													
Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management													
of SHGs													
Mobilization of social capital													
Entrepreneurial development													
of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. specify)													
TOTAL	39	479	294	773	50	53	103	57	42	99	586	389	975

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

	NI C			No.	of Pa	rtici	pant	<b>S</b>			Gran	d To	tal
Thematic Area	No. of Courses		Other	r		SC			ST				
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	2	0	25	25	0	2	2	0	3	3	0	30	30
Bee-keeping													
Integrated farming													
Seed production	3	13	5	18	13	4	17	5	0	5	31	9	40
Production of organic inputs	1	9	0	9	1	0	1	0	0	0	10	0	10
Planting material production	2	23	0	23	1	0	1	1	0	1	25	0	25
Vermi-culture	1	0	9	9	0	1	1	0	0	0	0	10	10
Sericulture													
Protected cultivation of vegetable	1	11	0	11	3	1	4	0	0	0	14	1	15
crops													
Commercial fruit production													
Repair and maintenance of farm	3	37	0	37	3	0	3	5	0	5	45	0	45
machinery and implements													
Nursery Management of Horticulture													
crops													
Training and pruning of orchards													
Value addition													

	No. of			No.	of Pa	rtici	pant	S			Gran	d To	tal
Thematic Area	Courses	(	Other	r		SC			ST				
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
Production of quality animal products													<u> </u>
Dairying													<u> </u>
Sheep and goat rearing													
Quail farming													
Piggery													<u> </u>
Rabbit farming													<u> </u>
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing													
technology													
Fry and fingerling rearing													
Small scale processing													
Post-Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others, if any Lac Production	1	9	0	9	6	0	6	0	0	0	15	0	15
TOTAL	14	102	39	141	27	8	35	11	3	14	140	50	190

iii. Extension Personnel (On and Off Campus)

	N 6			No.	of Pa	artic	cipai	nts			C	1 T	-4-1
Thematic Area	No. of Courses	(	<b>Othe</b>	r		SC			ST		Gra	nd T	otai
	Courses	M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	8	0	8	4	1	5	0	1	1	13	2	15
Integrated Pest Management													
Integrated Nutrient management	1	12	5	17	0	3	3	0	0	0	12	8	20
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery													
and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet													
designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
TOTAL	2	20	5	25	4	4	8	0	1	1	25	10	35

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

Discipline	Clientele	Title of the training	Duration	Venue (Off/On	]	Number o participant	f	Nur	nber of SC	C/ST
•		programme	in days	Campus)	Male	Female	Total	Male	Female	Total
Plant Science	F/FW	Scientific method of Pigeon pea seed production	1	Off	22	3	25	4	2	6
	F/FW	Scientific method of green gram seed production	1	Off	25	0	25	2	0	2
	F/FW	Importance of green manuring in different crops	1	Off	24	1	25	2	0	2
	F/FW	Importance of micronutrient application in different crops	1	Off	10	15	25	2	4	6
	F/FW	Integrated nutrient management in different crops	1	Off	25	0	25	4	0	4
	F/FW	Importance of biofertilizer in different crops	1	Off	24	1	25	2	1	3
	F/FW	Seed selection, seed treatments in different crops	1	Off	0	25	25	0	0	0
	RY	Pulse seed production	2	Off	15	0	15	15	0	15
	RY	Objective of seed packaging, handling and seed storage	2	On	6	9	15	3	4	7
	IS	Seed samplingand different method of seed quality testing	1	Off	13	2	15	4	2	6
Plant Protection	F&FW	Commercial pest management in Godown&Kitchen	1	On	18	7	25	7	5	12
	F&FW	Organic pest management strategy for homestead gardens	1	Off	22	3	25	4	1	5
	F&FW	Integrated pest &disease management in vegetable nurseries	1	Off	21	4	25	0	0	0
	F&FW	Management of soil borne insects &diseases in 66ember groundnut	1	Off	25	0	25	8	0	8
	F&FW	IPM against pod borer complex in 66ember green gram	1	Off	7	18	25	1	5	6
	F&FW	Pest management strategy for BPH & leaf folder in affecting 66ember paddy	1	Off	10	15	25	3	12	15
	F&FW	Management of sucking pest in oilseed crops.	1	Off	3	22	25	0	6	6
	F&FW	Management of insects & diseases in Rabi paddy nurseries	1	Off	11	14	25	5	5	10
	F&FW	IDM against wilt complex in pigeon pea	1	Off	5	20	25	0	2	2
	RY	Use of power sprayers for income generations	2	Off	15	0	15	0	0	0
	RY	Importance of microbial formulation for disease pest management	2	Off	15	0	15	6	0	6
Horticulture	F/FW	Cultivation practices of Okra .	1	Off	25	0	25	8	0	8

Discipline	Clientele	Title of the training	Duration	Venue (Off/On		Number of		Nui	nber of SC	C/ST
		programme	in days	Campus)	Male	Female	Total	Male	Female	Total
	F/FW	Kharif Onion cultivation	1	Off	25	0	25	3	0	3
	F/FW	Cultivation and Scientific management of Hybrid vegetable likeTomato,Brinjal,Chilli.	1	Off	25	0	25	5	0	5
	F/FW	Training on cultivation Practices of 67ember cauliflower.	1	Off	25	0	25	12	0	12
	F/FW	Improved Cultural practices of Vegetable in Net House	1	Off	22	3	25	0	0	0
	F/FW	Onion cultivation with INM,IWM and IPM.	1	Off	3	22	25	2	19	21
	F/FW	Training on production technology of marigold and medicinal plant	1	Off	8	17	25	2	3	5
	RY	Scientific management of cucurbits in trellis	2	On	14	1	15	3	1	4
	RY	Commercial Floriculture in Rural area	2	Off	15	0	15	1	0	1
	IS	Organic vegetable production and importance of soil testing	2	On	12	8	20	0	3	3
Agril. Engineering	F/FW	Use of different types of weeders in Agriculture	1	Off	11	14	25	1	1	2
	F/FW	Use and Operation of Different Harvesting Implements	1	Off	25	0	25	2	0	2
	F/FW	Use and Operation of Different sprayers	1	Off	25	0	25	5	0	5
	F/FW	Use of different Seed cum fertilizer drills	1	Off	25	0	25	10	0	10
	F/FW	Machineries used for Processing of different seeds	1	Off	25	0	25	3	0	3
	F/FW	Use of renewable energy in Agriculture	1	Off	25	0	25	1	0	1
	F/FW	Use, Operation and Maintenance of Sprinkler Irrigation System	1	Off	15	10	25	6	7	13
	RY	Entrepreneurship development through Farm Mechanization	2	Off	15	0	15	3	0	3
	RY	Use and operation of power tiller	1	Off	15	0	15	5	0	5
Home Science	F/FW	Development of organic kitchen garden	1	Off	0	25	25	0	1	1
	F/FW	Storage techniques of pulses	1	Off	0	25	25	0	2	2
	F/FW	Preparation of Value added products from tomato	1	Off	0	25	25	0	3	3
	F/FW	Preparation of Value added products from Potato	1	Off	0	25	25	0	4	4
	F/FW	Use of women friendly tools in paddy cultivation for drudgery reduction	1	Off	0	25	25	0	3	3
	F/FW	Use of women friendly tools in groundnut cultivation for drudgery reduction	1	Off	0	25	25	0	9	9

Discipline	Clientele	Title of the training	Duration	Venue (Off/On		Number o participant		Nur	nber of SC	C/ST
		programme	in days	Campus)	Male	Female	Total	Male	Female	Total
	F/FW	Improved nursery management for income generation of farm women	1	Off	0	25	25	0	0	0
	RY	Paddy straw mushroom cultivation for livelihood security	2	Off	0	15	15	0	2	2
	RY	Oyster mushroom cultivation as an additional source of income	2	Off	0	15	15	0	3	3
Fishery Science	F/FW	Fish health management	1	Off	25	0	25	2	0	2
	F/FW	Feeding management of backyard poultry	1	Off	25	0	25	0	1	1

H) Vocational training programmes for Rural Youth Details of training programmes for Rural Youth

		- cg. cm.mes jer			No. of rticipa	nts	Self Emplo	yed afto	er training	Number
Crop / Enterpris e	Identifie d Thrust Area	Training title*	Dura tion (days )	M ale	Fe mal e	T ot al	Type of units	Nu mbe r of unit s	Number of persons employe d	of persons employe d else where
Green gram	VT	Scientific method of Pulse seed production for income generation	4	10	0	10	Seed Producti on	4	8	2
Vermi Compost	VT	Development of vermicompos t unit for self- employment	5	0	10	10	Vermico mpost Unit	4	4	3
Planting material	VT	Planting Material Production for Livelihood	4	10	0	10	Planting material productio n	5	8	1
Lac	VT	Commercial production of Lac	4	10	0	10	Lac Producti on	2	3	4

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

#### 4. Sponsored Training Programmes

Sl. No	Ti tle	The matic	Mo nth	Dura tion	Client	No. of		No. of Particip	oants	Spons oring
110	tic	area	11(11	tion		01	Male	Female	Total	ormg

		(day s)	PF/R Y/EF	cou rses	Oth ers	S C	S T	Oth ers	S C	S T	Oth ers	S C	S T	To tal	Agenc y

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

Nature of	No. of		Fari	mers			xtensio Officia			Total	
Extension Activity	69em beriti es	M	F	Т	SC/ ST (% of total)	Mal e	Fe ma le	Tot al	Male	Fema le	Total  135 108 26 Mass 396 290 30 161 384 651 80000 1032 651 2261 27 28 104
Field Day	3	80	50	130	28	4	1	5	84	51	135
KisanMela	1	92	08	100	35	6	2	8	98	10	108
KisanGosth i	2	24	0	24	29	2	0	2	26	0	26
Exhibition	5	-	-	Mass	30	10	4	14	-	-	Mass
Film Show	15	273	112	385	32	8	3	11	281	115	396
Method Demonstrati ons	22	194	70	264	34	18	8	26	212	78	290
Farmers Seminar	1	20	5	25	12	4	1	5	24	6	30
Workshop	2	118	32	150	23	9	2	11	127	34	161
Group meetings	24	290	70	360	35	16	8	24	306	78	384
Lectures delivered as resource persons	25	480	145	625	28	19	7	26	499	152	651
Advisory Services	33	70105	9843	80000	79948	35	17	52	70140	9860	80000
Scientific visit to farmers field	213	733	245	978	22	42	12	54	775	257	1032
Farmers visit to KVK	631	509	122	631	32	12	8	20	521	130	651
Diagnostic visits	58	1564	661	2225	34	24	12	36	1588	673	2261
Exposure visits	4	25	0	25	29	2	0	2	27	0	27
Ex-trainees Sammelan	1	22	3	25	25	2	1	3	24	4	28
Soil health Camp	2	82	18	100	32	2	2	4	84	20	104
Animal Health Camp	1	122	28	150	33	9	4	13	131	32	163

Agri mobile clinic	-			-							
Soil test campaigns	4	168	32	200	28	6	2	8	174	34	208
Farm Science Club Conveners meet	18	270	0	270	29	22	6	28	292	6	298
Self Help Group Conveners meetings	12	0	180	180	33	4	8	12	4	188	192
MahilaMan dals Conveners meetings	-			-							
Celebration of important days (specify)	5	210	110	320	34	14	7	21	224	117	341
gSankalp Se Siddhi	-			-							
Swachhata Hi Sewa	1	823	365	1188	24	32	11	43	855	376	1231
MahilaKisa n Divas	1	0	60	60	28	1	1	2	1	61	62
Any Other (Specify)											
Total	1084	76204	12159	88415	80617	303	12 7	430	76497	12282	88779

#### 5. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	2
Radio talks	4
TV talks	7
Popular articles	15
Extension Literature	43
Other, if any	

#### 6. a. Production and supply of Technological products

Village seed

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

Total				

KVK farm

Crop	Variety	Quantity	Value		Number of farmer to whom seed provide		
•		of seed(q)	(Rs)	SC	ST	Other	Total
Paddy	Swarna sub-1	342.2	10,37,208 (Expected).	-	-	-	Sell to OSSC, Bargarh
Pigeonpea	PRG-176	0.2	2400	0	1	1	2
Grand Total		342.4	1039608				

#### Production of planting materials by the $KVKs\,$

Сгор	Variety	No. of planting	Value	Number of farmers to whom planting material provided				
<b>F</b>	, ssss	materials	(Rs)	SC	ST	Other	Total	
Vegetable seedlings								
Cauliflower	PAN-1008, Atisighra	7425	14850	2	2	8	12	
Cabbage	KGMR	200	400	1	0	3	4	
Tomato	Arkarakshak	21765	43650	4	3	14	21	
Brinjal	PPC	310	310	0	1	2	3	
Chilli								
Onion	Bhima super	120000	12000	2	5	18	25	
Others								
Brussel sprouts		640	640				6	
Broccoli	Pusa KTS-1	21060	21060	4	7	13	24	
Turnip	PTWG	200	200	1	1	3	5	
Knolkhol	WV	1370	1370	2	1	9	12	
Fruits								
Mango								
Guava								
Lime								
Papaya	Red lady	106	2120	3	2	21	26	
Banana								
Others								
Watermelon	Patengra	280	5600	2	2	6	10	
Ornamental plants								
Medicinal and Aromatic								
Plantation								
Spices								
Turmeric								
Tuber								
Elephant yams								
Fodder crop saplings								
Forest Species								
Others, pl.specify								

Total	173356	102200	21	24	97	148
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## **Production of Bio-Products**

Nome of product	Quantity	Value (Rs.)	No. of Farmers benefitted				
Name of product	Kg	value (Ks.)	INU	No. of Farmers be		nemieu	
			SC	ST	Other	Total	
Bio-fertilizers (vermi compost)	2920	39200	6	8	44	58	
Bio-pesticide							
Bio-fungicide							
Bio-agents							
Others, please specify.Vermin	12	6000	1	1	10	12	
Total	2932	45200	7	9	54	70	

Production of livestock materials			
Particulars of Live stock	Name of the breed	Number	Value (Rs.)
Dairy animals			
Cows			
Buffaloes			
Calves			
Others (Pl. specify)			
Small ruminants			
Sheep			
Goat			
Other, please specify			
Poultry			
Broilers			
Layers			
Duals (broiler and layer)	Rainbow rooster, Kadaknath	45.2kg	4520
Japanese Quail			
Turkey			
Emu			
Ducks			
Others (Pl. specify)Egg	Rainbow rooster	150no.	750
Piggery			
Piglet			
Hog			
Others (Pl. specify)			
Fisheries			
Indian carp			
Exotic carp			
Mixed carp			
Fish fingerlings	Amur carp, Jayanti rohu	6500no.	26000
Spawn			
Others (Pl. specify)			
Grand Total			31270

# **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:	Dr. Anil Kumar Swain Sr. Scientist and Head KVK Bargarh
Address:	KVK, Gambharipali, Bargarh

E-mail:	kvkbaragarh.ouat@gmail.com
Phone No.:	06682225238,
Mobile:	9438615702

ii) Quality Seed Production Reports

	•			Production (q)				
Season	Crop	Variety	Target (ha)	Area sown (ha)	Production	Category of Seed (F/S, C/S)		
Kharif 2018	Pegionpea	PRG- 176	50	50	21.96 (Unprocessed)	C/S		
Rabi 2018-19	Greengram	IPM 02- 14	100	100	50 (Expected)	C/S		

iii) Financial Progress

	rmanciai i 10	51 600			
Fund		Expenditure (Rs. In lakhs)		Unspent balance	Damada
Year	received	Infrastru cture	Revolving fund	(Rs. In lakhs)	Remarks
2016-17	1.54614	-	0.30970	1.23644	
2017-18	3.45386	48.3633	3.78307	3.63311 + 1.63664 (Seed Processing plant)	
2018-19	-	-	4.47968	3.98693 + 1.63664 (Seed Processing plant)	

## iv) Infrastructure Development

Item	Progress			
Seed processing unit	200/ work has been completed			
Seed storage structure	80% work has been completed			

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

Item	Title	Author's name	Number	Circulation
Research paper		Ms. Rukeiya		
		Begum,		
	Impact analysis of	Scientist(Plant		
	demonstration on INM in	Sc.), Mrs.		
	green gram- International	Susrita Sahu,	-	-
	journal of chemical studies,	Scientist(Home		
	2018;6(6):PP:1267-1268	Sc.), Dr. Anil		
		Kumar Swain,		
		Senior Scientist		

Item	Title	Author's name	Number	Circulation
		& Head, KVK, Bargarh		
	Performance of Onion varieties against thrips(ThripsTabacilindeman) incidence at Bargarh,Odisha- Journal of applied Research(2018)29(2):202- 208	Mr. Nrusingh Charan Barik, Scientist (Plant Protection)	-	-
	Comparative efficacy of few chemicals on BPH,Nilaparvatalugens stall infestating paddy cv.MTU-1001 at farmers field of Bargarh district, Odisha-Journal of applied Research(2018)29(1):53-58	Mr. Nrusingh Charan Barik, Scientist (Plant Protection)	-	-
Seminar/conference/ symposia papers	A study on storage life of green gram by farmwomen of Bargarh district, A compendium of abstract of papers on FFCSWR-2019:PP-134	Mrs. Susrita Sahu, Scientist(Home Sc), Miss Rukeiya Begum, Scientist(Plant Sc.), Dr. Anil Kumar Swain, Senior Scientist & Head, KVK, Bargarh	-	-
Books	Scientific cultivation of Groundnut	Mr. Nrusingh Charan Barik, Scientist (Plant Protection)	500	480
	Commercial cultivation of Pigeon pea	Mr. Nrusingh Charan Barik, Scientist (Plant Protection)	500	440
Bulletins	-	-	-	-
News letter	Dhanuyatra	All staff	1000	990
Popular Articles	LabhadayakaMatarchasa, Potolchasa, Kakudichasa ,Kharadinia bhindi chasa	Mr. S.K. Meher ,Scientist (Horticulture)		
Book Chapter	-	-	-	-
Extension Pamphlets/ literature	-	-	-	-
Technical reports	Annual Progress Report & Annual Action plan	All staff	7	7

Item	Title	Author's name	Number	Circulation
Electronic				
Publication	-	-	-	-
(CD/DVD etc)				
TOTAL			2007	1917

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1	Short course training prog.	One health special reference to Fisheries & Aquaculture.	Dr. Anil Kumar Swain, Senior Scientist & Head	18.02.19- 27.02.19 (10 DAYS)	ICAR-CIFE, Mumbai
2	Short course training prog.	Ergonomic Interventions for designing women friendly agricultural tehnologies for reduction of occupational health hazards".	Mrs. Susrita Sahu, Scientist (Home Science)	05.12.18- 12.05.18 (10 DAYS)	CAET, OUAT, BBSR
3	Training Prog.	Training on 'Recent advances in nutrient vis-à- vis soil health management for major oilseed cropping systems of India".	Mr. Nrusingh Ch. Barik, Scientist (Plant protection)	05.12.18- 12.05.18 (8 DAYS)	ICAR-IIOR, Hyderabad
4	Training cum workshop	Training cum workshop for plant protection SMS	Mr. Nrusingh Ch. Barik, Scientist (Plant protection)	13.12.18- 15.12.18 (3 DAYS)	ATARI, Kolkatta
5	Training	Improved production practices in horticultural crops	Mr. Sanat Kumar Meher, Scientist (Horticulture)	04.04.48- 06.06.18 (3 DAYS)	IIHR, Bangaluru
6	Summer school prog.	"New innovation in improvement of vegetable crops"	Mr. Sanat Kumar Meher, Scientist (Horticulture)	05.09.18- 25.09.18 (21 DAYS)	Dr. YS. Parmar University of Horticulture & Forestry, Nauni-Solan
7	Workshop on "Farmers First for conserving Soil & water resources in Eastern Region"	Poster presentation on" A study on storage life of green gram by farmwomen of Bargarh district"	Ms. Rukeiya Begum, Scientist (Plant science)	.06.02.19- 08.02.19 (3DAYS)	ICAR- IISWC, Koraput, Odisha
8	Winter school	Entrepreneurship Development through value addition of underutilized crops	Mr. Tarak Ch. Panda, Scientist (Agril. Engg.)	15.11.18- 05.12.18 (21 DAYS)	CAET, OUAT, BBSR
9	Orientation Training Prog	Operational Modalities for KVKs	Mr. Alok Kumar Sahoo, SMS (Agril. Extension)	25.03.18- 27.03.18 (3 DAYS)	DEE, OUAT, BBSR,

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

Success Story: Tomato "Arka Rakshak" – A boon for farmers

Name of farmer	Story: Tomato "Arka Rakshak" – A boom for farmers  Sri Srimukha Sahu		
Address	At- Baulasingha, Block- Bhatli, Dist- Bargarh		
	At- Daurasingna, Diock- Dhath, Dist- Dargain		
Contact details (Phone, mobile, email Id)	Mobile No 93480 00243		
Landholding (in ha.)	1		
Name and description of the farm/ enterprise	<ul> <li>Sri Srimukha Sahu is a young diligent farmer.</li> <li>He is growing Paddy, Greengram, Vegetables such as Tomato, Cabbage, Cauliflower for sustaining his livelihood.</li> <li>He never used to miss tomato crop in his crop plan in his entire farming practices.</li> <li>Since last two year he was depressed due to more expenses towards controlling the multiple diseases in tomato such as wilt and early blight.</li> <li>So he contacted KVK, Bargarh for getting rid out of the problem.</li> </ul>		
KVK intervention	<ul> <li>KVK, Scientists advised him to go for the IIHR released triple disease resistant (BW, TOLCV, EB) Tomato variety "Arka Rakshak".</li> <li>He was supplied with 2000 nos. of seedlings for planting at a spacing of 2.5 ft. X 2.5 ft.</li> <li>He followed other techniques such as proper INM management, timely weed management with adequate irrigation.</li> <li>He was encouraged to go for proper staking during the field visit.</li> </ul>		
Economic Impact:	<ul> <li>He could able to harvest 55 q. of tomato in 0.30 acre of land.</li> <li>By selling it @ Rs.10 /kg he earned a net profit of Rs. 32000 in a BC ratio of 1:8.</li> <li>It also helped him to reduce the financial loss in use of chemicals.</li> </ul>		
Social impact  The attractive deep red colored firm fruit with good keep attracted more consumer in the market.  This gave him a unique recognition as a "Good Tomato Grow			
Environmental impact  • As "Arka Rakshak" is a triple disease resistant variety, it helps to the environmental pollution caused by the use of chemical pes Tomato.			
Horizontal/ Vertical spread	• Impressed by his control over multiple diseases in tomato, the tomato growers of the nearby 5 Blocks are now rushing to KVK for this tomato variety.		







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

Sl.	Name/ Title of the	Name/ Details of	Brief details of the Innovative
No.	technology	the Innovator(s)	Technology
1	Farmers Problem solved	Mr.A.K.sahoo,	Farmers are directly post their problem
	by Whatsapp	SMS (Ag.	imagein the group & concerned scientist
		Extension)	can solve their problemaccordingly

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.	Crop /	ITK Practiced	Purpose of
No.	Enterprise		ITK
1	Paddy	Mixing of 10 kg. of mustard oil cake &! lit. of kerosene oil in sand. Then dusting of the above mixture in 1 ac. of paddy land	To control BPH in paddy

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1	paddy	140	4300q	245	Y
2	Pulse	310	810 q	540	Y
3	vegetable	160	800q	1250	Y

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

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
1	PRAs, Survey, Field visit	To identify the problem of Farmers & Farm women
2	Group meetings, Farmers scientist interaction	To sort out the constraints faced by Rural Youths
3	Diagnostic field visit, Discussion during R-E linkage meeting & bi-weekly meeting	To upgrade the knowledge of In-service Personnel

3.11. a. Details of equipment available in Soiland Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
01	MridaParikshyakSoilTesting Kit (Minilab)	3

3.11.b. Details of samples analyzed so far

Number of soil samples analyzed					A 0
Through mini soil testing kit/labs	Through soil testing laboratory	Total	No. of Farmers	No. of Villages	Amount realized (in Rs.)
113	0	113	113	32	0

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Cards	No. of farmers benefitted
1	<ul> <li>Seminar on soil health management</li> <li>Soil health card distribution</li> <li>Exhibition on soil health management</li> </ul>	50	1	Mrs. Rita Sahu, Chaiman , Panchayat Samiti, Attabira	35	45

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
Awareness on Soil test	1	30	Collection of soil samples
Seed treatment campaign	1	40	Seed treatment with bio agents
Awareness on BPH management in paddy	1	30	Transplanting & spraying techniques
Film show	2	50	Organic farming, IFS
Demonstration on Pulse thresher	1	20	Threshing of Greengram
Swachhata Campaign	1	80	Recycling of agricultural wastes

3.14. RAWE/ FET Programme– is KVK involved? (Y/N)

No of student trained	No of days stayed
18	-

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
12.07.2018	Dr. Aravind Kumar, STO, DRD, Patna	Review the progress of CFLD & Seed Hub
29.08.2018	Mrs. SnehanginiChhuria, Hon'ble Minister of Handlooms, Textiles & Handicraft, Govt. of Odisha	Chief Guest of a training Prog. For Panchayatiraj members by Dept. of Hort., Bargarh at KVK Campus
30.08.2018	Dr. M.P. Nayak, JDE (Information), Dee, OUAT, BBSR	Monitoring of KVK activities
31.08.2018	Dr. M. Muthukumar, IAS, Director Agriculture, Govt. of Odisha	Reviewof BGREI activities
18.09.2018	Dr. Sumit Mishra, Joint Director Dr. A.K. Singh, Asst. Director, DRD, GOI, Patna	Monitoring of Seed Hub activities
20.12.2018	Prof. B.C.Sahoo, Dept. of SWCE,CAET,OUAT, BBSR	Attending awareness prog. On Water Use Efficiency
16.01.2019	Dr. Biswanath Sarangi, Emeritus Scientist, ICAR-CIWA	To collect information on collaboration work of KVK-ATMA on Gender Sensitization
15.03.2019	Dr. B. K. Mohapatra, JDE,DEE,OUAT, BBSR	Participated in the SAC Meeting

## 4. IMPACT

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

Name of specific technology/skill	No. of	% of	Change in income (Rs.)		
transferred	participants adoption		Before (Rs./Unit)	After (Rs./Unit)	
Application of post emergence herbicide BispyribacSodium @ 25 g ai/ha in transplanted rice within 25 days	250	94	15000/ha	20000/ha	
Application of eco-friendly insecticide Spinosad 45% SC @1ml/4lit for control of shoot and Fruit borer in brinjal	140	85	60000/ha	97000/ha	
Application of Borax @ 3 gm/lt. at 30, 40,50 DAT in cauliflower to avoid brown rot	120	88	42000/ha	66000/ha	
Transplanting of paddy by self- propelled rice transplanter	60	40	17000/ha	22000/ha	
Supplementation of vitamin-mineral mixture @ 30gm / day improve the milk yield of cows	110	84	21000/cow	25200/cow	

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			
CultivationTechnology of drought tolerant groundnut	Spread in 24 villages of 2			
Var.Deviin rainfed uplands	blocks			

Name of farmer	Sri Jagatram Khamari
Address	AT:Balijuri, PO;Nuagarh, Block:Bhatli, Dist-Baragarh,Odisha
Contact details (Phone, mobile, email Id)	Mob:08018166284
Landholding (in ha.)	1.4
Name and description of the farm/ enterprise	He is usually growing Greengram in upland area during 80emberWhich often gives very less profit due to poor yield as low as 2q/ha.One day he came into contacted with KVK scientist in a farmers training programme in the village where emphasis was laid on cultivation of drought tolerant groundnut in rainfed uplands. By observing his interest, he was supplied with shorter duration variety – <i>Devi. Which</i> was treated with Vitavax Power @ 2.5g/kg seed and then with Trichoderma viridae @5g/kg seed after 10 days and sown after application of 10 cartloads of compost/acre with balanced dose of fertilizers. <i>Phospho-Gypsum</i> @ 100kg/acre was applied during time of hoeing and earthing up for better pod development. Timely irrigation with need based spraying of pesticide- <i>Profenphos</i> 50EC @ 2ml/ltr was done at 40 DAS for controlling <i>Spodoptralitura</i> . He was suggested for application of post emergence herbicide <i>Imazethapyr</i> 7% SL @ 400 gm. /acre at 20 DAS. The crop was inspected at monthly interval and spraying of Carbendazim 12%plus Mancozeb 63%@3gm /Lit of water was done to control leaf spot diseases. He was trained to harvest the crop when the leaves turned yellow& pods were fully matured.
Economic impact	. The number of pods /plant has been amazingly increased due to cultivation of draught tolerant variety —Devi. The farmers harvested av. Of 25pods/plant against 12-15/plant from local variety. The pod filling was better in 80ember80r-gypsum applied plots. It resulted 5% higher shelling percentage and fetched more price and preferred by local traders. He was also suggested to sale the matured raw pods at the time of demand in the local market, which normally fetches same price as that of dried pods He earned a net profit of Rs. 24,400as against earlier incomeof Rs. 11,040 from 2 ac. Of land
Social impact	.He in now able to buy a smart mobile phone for updating his knowledge through effective communication.
Environmental impact	Soil fertility increases due to nitrogen fixation by groundnut cultivation.  Less weed menace due to full land coverage.
Horizontal/ Vertical spread	Spread in 24 villages of 2 blocks

Give information in the same format as in case studies

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

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

1	Popularization ofFlubendiamide240 SC+Thiacloprid240 SCfor management of leaf folder in 81ember paddy	Timely control of leaf folder More no. of effective tillers More grains per panicles	Increase in yield by 8 q/ha
2	Popularization of Triple Disease Resistance tomato Hybrid "Arka Rakshak"	Low seedling mortality Better plant growth More fruits per plant	Ripen fruits are available in market for more than 2 months
3	Application of preemergence weedicide (Pendimethalin 30EC @ 2000 ml/ha) within 3 <sup>rd</sup> day and post-emergence (Quizalo-fop-Ethyl 5% Ec @ 1000 ml/ha at 20DAS for weed management in greengram	Increase on knowledge & skill in weedcide& its application Timely weed contrll Prolific vegetative growth & pod formation Less incidence of pest & dioseases	Reduction in cost of weeding by Rs. 3000/ha & increase in yield by 1.6 q/ha
4	Demonstration on Power Weeder for weeding in Brinjal	Increase in skill on weeder operation Timely weed control Less no. of mandays required	Cost of weeding reduced by Rs . 5000/ha
5	Replacement of "Jayanti" rohu fingerlings with normal rohu in the pond based culture system	Increase in productivity Availability of more no. of table size fish Better acceptance	Increase in yield by 500kg/ac
6	production of Paddy straw mushroom with threshed straw(5kg straw,Pulse powder 3%,Soaking period 5hr)	Better utilization of threshed straw Increase in skill of mushroom production with loose straw Labour & time saved	Net profit increased by Rs.100/100bed

4.4 Details of innovations recorded by the KVK

Thematic area	Farm Mechanization			
Name of the Innovation	Groundnut Stripper			
Details of Innovator	Mr. Sadananda Budhia, At/P.O-Sarakanda, Block-Sohel			
Back ground of innovation	He is a groundnut cultivator. He cultivates 2 ha. Of			
	groundnut in every year. Stripping is the most labour			
	consuming post-harvest operations .So he thought up for			
	an alternate methods to combat over this problem.			
Technology details	He constructed manual sitting type heavy groundnut stripper. He made this stripper by fixing 25 nos. of iron			
	rods in a horizontal manner with a rectangular frame			
	having iron legs as stand purpose			
Practical utility of innovation	Two women can stripe the pods from the plants with the			
	help of one hand comfortably.			

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Floriculture
Name & complete address of the	Mrs. Mirabai Danagana, At/D.O. Dhatli, Dlagle Dhatl
entrepreneur	Mrs .MirabaiDanasena, At/P.O- Bhatli, Block-Bhatl
Role of KVK with quantitative data support:	She was promoted to go for Ceracole var. of marigold instead of local variety. So she was supplied with 1000 nos. of marigold seedlings. She was trained on seedling treatment with bavistin @ 2gm/lit & planting at a distance of 60cmx 45cm. She was suggested to go for application of FYM &balanced dose of fertilizer for more attractive flower. She sprayed Imidacloprid 17.8 SL @ 1 ml/4lt of water to minimize the attack of sucking pests such as aphids & Thrips. She also trained for nipping of the plant at knee height to get more branches with maximum flowers. For observing her interest towards floriculture She has been also supplied with 600nos. of Arkaprajwal var. of tuberose bulbs and guided her to grow tuberose with scientific package of practices.
Timeline of the entrepreneurship development	2015-16-she diverted from local var. of marigold to caracole var. of marigold with nipping practices in rabi season 2016-17- Trained on developing stem cuttings by using rootex hormone 2017-18- Promoted for cultivating marigold for 8 months in 0.40 ac of land 2018-19- cultivating marigold for 8 months & tuberose for 4 months to enable her for marketing of flowers throughout the year
Technical Components of the Enterprise	Ceracole marigold seedlings, cycle weeder, tuberose bulb, Imidacloprid, Rootex
Status of entrepreneur before and after the enterprise	Earlier she was disappointed with the poor quality of marigold yield & lower price from selling it due to less consumer preference. Also she was not able to earn money from floriculturein Kharif. She is now happy with the flower production & income throughout the year. Her achievement in marigold production was telecasted in DoorDarshan.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. ( Economic viability of the enterprise):	She is now able to develop the seedlings from stem cuttings & preserve the tuberose bulb for the next year. She is managed to reduce the labour cost by using cycle weeder. She is now able to earn Rs. 60000/annum by selling the flowers in the market. Her flowers gain popularity day by day for its attractive colour, size & keeping quality.
Horizontal spread of enterprise	20 farmers of nearby 4 blocks are following the floriculture enterprise throughout the year.

## 4.6. Any other initiative taken by the KVK

## 5. LINKAGES

## 5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Dept. of Agriculture, Bargarh	Creating awareness for BPH control, collaborative celebration of special days, Resource Person for HRD training
Dept. of Horticulture, Bargarh	Inspection of nurseries, Resource Person for HRD training
Animal Resources Dept., Bargarh	Participated in Exhibition & Animal health camp
Dept. of Fishery, Bargarh	Joint field visit, Resource Person for HRD training
Watershed Mission	Participated in Exhibition organized by the Watershed Dept.
District Administration, Bargarh	For taking up initiative measures to control pest &disease incidence
Odisha state seed corporation, Bargarh	Production of foundation & certified seed under instructional farm
All India Radio,Sambalpur	Radio talks, Participation in Farm & Home programme
Doordarsan, Sambalpur	TV talk, SAC meeting
State Livestock breeding Farm, Chipilima	For supply of poultry chicks & ducklings
NABARD, Bargarh	Field visit under different funded project
NGOs: Debadutta Club, Ahinsa Club, Matrushakti, Basix	Pulse seed production, Promotion of organic farming, Exposure visit

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	Purpose of programme	Date/ Month of	Funding	Amount
programme/scheme	r dipose of programme	initiation	agency	(Rs.)

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

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Farmers Science Interaction	Solve the queries of farmers	06.11.2018	ATMA	20000
Head to Head trial of IRRI rice varieties	To assess the performance of stress tolerant rice varieties	14.12.2018	IRRI	15000

## 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl.	Name of	Year	Are	Detai	ls of produ	ction	Amount (Rs.)			
No ·	demo Unit	of estt.	a(S q.m t)	Variet y/bree d	Produc e	Qty (Kg)	Cost of inputs	Gross income	Remarks	
1	Vermico mpost	2010	80. 4	Eiseni a. Foetid a	vermin	12	3750	6000	Sold to farmer & nearby KK	
2	Nutrition al Garden	2017	400	Local	Vegeta ble	217	485	1085	Public sale	
3	Horticult ural Demo Unit	2015- 16	400	Hybrid	Vegeta ble	200	515	100	Public Sale	
4	Mango Orchard	204- 05		Hyv	Fruits	1500	5000	7500	Public Sale	
	Total					1929	9750	14685		

## 6.2. Performance of Instructional Farm (Crops)

Name	Date of	Date of	g <	Detail	s of produc	ction	Amou		
Of the crop	sowing	harvest	Area	Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	Remarks
Paddy	22.06.2018	20.11.2018	8	Swarna sub -1	FS	342.2	504,000	10,37,208	To be sold to OSSC
Pigeonpea	23.06.2018	04.01.2018	0.5	PRG 176	FS	0.2	1000	2400	To be used for upcoming season

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

Sl.	Name of the		Amoun	t (Rs.)	
No.	Product	Qty. (Kg)	Cost of inputs	Gross income	Remarks
1.	Vermicompost	2920	30206	39200	Recycling of farm wastage into vermicompost

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

	Name	Details of	Details of production			t (Rs.)	
Sl. No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1.	Fish	Amur carp&Jayanti Rohu	Fingerlings	6500	19000	26000	For OFT & FLD purpose

## 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)
December	25	2	•
Total:			

(For whole of the year) Utilization of staff quarters

Whether staff quarters has been completed: Yes Only One

No. of staff quarters: One Date of completion: 2002 Occupancy details:

Months	QI	QII	QIII	QIV	QV	QVI
April,2018-March,2019						

## 7. FINANCIAL PERFORMANCE

#### 7.1. Details of KVK Bank accounts

Bank account Name of the bank		Location	Account Number
Contingency	State bank of India	Godbhaga	10777584215
Revolving fund State bank of India		Godbhaga	30163765041
Seed hub State bank of India		Kadobahal	36026592693

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

Item	Released by ICAR		Expenditure		Unspent balance as on – 01.04.2019
	Kharif	Summer	Kharif	Summer	Kharif
Ground nut	240000	240000	168147	114453	197400

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

	Released	by ICAR	Expen	Unspent	
Item Kha		Rabi	Kharif	Rabi	balance as on 1 <sup>st</sup> April 2019
Green Gram & Pigeon Pea	450000	450000	422498	376335	101167

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

	IIIZati	on of KVK funds during the year 2018-19	(Not audited)			
Sl. No.		Particulars	Sanctioned	Released	Expenditure	
1		2	3	4	5	
(A)		RECURRING CONTINGENCIES (RI	EVENUE)			
1.	_	and allowances	,			
2.		velling allowances	75,000	75,000	75,000	
3.		tingency	,,,,,,,	,,,,,,	,,,,,,,	
	a.	Stationary, telephone, postage & other exp. On office running publication of newsletters	3,20,000	3,20,000	3,19,926	
	b.	POLs, repair of vehicles, tractor & equipments				
	c.	Training of farmers (Melas / refreshment of trainees)				
	d.	Training materials (need based material and equipments for conducting the training)	2,40,000	2,40,000	2,39,964	
	e. f.	Training on extension functionaries Training on Rural Youth				
	g.	Frontline Demonstration	1,60,000	1,60,000	1,60,069	
	h.	On-farm testing (on need based location specific and newly generated information of the major production systems of the area.	80,000	80,000	79,955	
	i.	Soil & Water testing & issue of soil Health cards	0	0	0	
	j.	Maintenance of buildings	0	0	0	
	k.	SCSP Contingencies	2,00,000	2,00,000	2,00,086	
		TOTAL (A)	10,75,000	10,75,000	10,75,000	
<b>(B)</b>	NO	N-RECURRING CONTINGENCIES (	CAPITAL)			
	a.	Equipments & Furnitures				
		i) Office automation				
		ii) Furniture & fixtures				
	b.	Works				
		i) Repairing & Renovation	7,40,000	0	0	
	c.	Vehicle				
	d.	Library (purchase of assets like books & journals back volume)				
		TOTAL (B)	7,40,000	0	0	
I		REVOLVING FUND	0	0	0	
		Grand TOTAL (A+B+C)	18,15,000	10,75,000	10,75,000	

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

Year	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	0.22	17.21	14.84	2.46
2016-17	2.46	2.30	5.16	0
2017-18	0	4.20	6.84	2.64
2018-19	2.64	9.53	6.56 + 5.0 (Profit Deposit to DEE, OUAT) = 11.56	0.61

#### 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- Use of gender friendly farm tools, vegetable cultivation, Mushroom production, Duckery, poultry, Dairy management
- (iii) Details of marketing channels created for the SHGs- Marketing of paddy straw mushroom has been channelized to near byBargarh &Attabira NAC market.

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

Nameof activity	Number of activity	Season	With line department	With ATMA	With both
Research-Extension linkage meeting	8	Kharif & Rabi	-	-	Both
Celebration of special days ( World Soil Day, Krishak Diwas, World Food Day etc.)	5	Kharif & Rabi	-	-	-Both
Field visit	213	Kharif & Rabi	-	-	Both
Dist. Level Farmers Fair	1	Rabi	ī	-	Both
District Agriculture strategy Planning Meeting	2	Kharif & Rabi	-	-	Both

#### 8 Other information

## 8.1. Prevalent diseases in Crops

Name of	Crop	Date of	Area	%	Preventive measures
the disease		outbreak	affected (in	Commodity	taken for area (in ha)
			ha)	loss	
Blast	Paddy	27.09.2018	400	90	1100
Stem borer	Paddy	17.03.2019	200	70	700

## 8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidity rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)
Chicken	Rain bow	29.10.2018	90	400	3000
fox	rooster				
EUS	Rohu	28.12.2018	80	12 ponds	20 ponds

9.1. Nehru YuvaKendra(NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

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

Type of message	No. of messages	No. of farmers covered
Crop	20	80,000
Livestock	2	80,000
Fishery	2	80,000
Weather	1	80,000
Marketing	2	80,000
Awareness	2	80,000
Training information	1	80,000
Other	3	80,000
Total	33	80,000

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	-
2.	No. of farmers registered in the portal	80000
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
12.08.2018	Vemicompost production from crop residues
20.09.2018	Segregation of bio degradable from non-biodegradable
30.09.2018	Making wall painting on swachhata
01.10.2018	schoole Rally to generate awarenesson Swachhata
02.10.2018	Debate & discussion on aawareness regarding swachhata,
23.12.2018	Awareness on swachhata on Kisan Divas

## b. Details of Swachhta activities with expenditure

Ac	tivities	Number	Expenditure (in Rs.)
1.	Digitization of office records/ e-office	8	-
2.	Basic maintenance	98	27440
3.	Sanitation and SBM	30	8400
4.	Cleaning and beautification of surrounding areas	44	12320
5.	Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	24	6720
6.	Used water for agriculture/ horticulture application	12	3360
7.	Swachhta Awareness at local level	20	5600
8.	Swachhta Workshops	1	500
9.	Swachhta Pledge	1	

10. Display and Banner	5	1000
11. Foster healthy competition	1	3000
12. Involvement of print and electronic media	1	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	1450	15612
14. No of Staff members involved in the activities	16	-
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total	1711	83952

9.6. Observation of National Science day

<u> </u>	- 7
Date of Observation	Activities undertaken

9.7. Programme with SeemaSurakshaBal/ BSF

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used
Gambharipali U.P School	01.10.2018	Swachhata activities, Vermicompost production, plantation	LCD Projector

Give good quality 1-2 photograph(s)

9.9. Details of 'Pre-Rabi Campaign' Programme

	No. of Union		Participants (No.)					Coverage by Door Darshan (Yes/No)				
Date of progr amme	Ministers attended the program me	MPs (Loksa bha/ Rajyas abha) partici pated	of State Govt. Minis ters	MLA s Atten ded the progr amm e	Chair man ZilaP ancha yat	Distt. Collect or/ DM	Bank Official s	Farmer s	Govt. Officials, PRI & member etc.	T o t a l		Coverage by other channels (Number)

9.10. Details of Swachhta Hi Sewaprogramme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	<ul><li>Awareness camp</li><li>Debate competition</li><li>Road show</li></ul>	34	1231	1	1

Ī	•	Village Rally			
	•	CD show on Vermicompost production			

9.11. Details of MahilaKisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	<ul> <li>PromotingSHG activity</li> <li>Rangoli competition on agricultural activities</li> <li>Felicitation to best SHG</li> </ul>	1	60	1	Mrs. HemaKanti Bhue

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Sri Pruthiraj Sahoo	Saplahar, Paikamal,9777638700	Pigeonpea seed production
2	Sri Jagatram Khamari	Balijuri, Bhatli ,8594902488	Groundnut Cultivation
3	Sri Prassna Patel	Tal, Padampur,9777232795	Commercial horticulture
4	Sri Srimukha Sahoo	Baulasinga, Bhatli,9348000243	Farm Mechanization in vegetables
5	Sri jagadishPardia	Gambharipali, Attabira, 8658949317	Fish production
6	Smt. Mita Sahu	Lebidi, Sohela, 9777191101	Vermicompost production

9.13. Revenue generation

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

#### 9.14. Resource Generation:

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

## 9.15. Performance of Automatic Weather Station in KVK

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

9.16. Contingent crop planning

Name of the state	Name of district/ KVK	Thematic area	Number of programm es organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Odisha	Bargarh	ICM	2	40	Promotion of Green manuring in paddy to increase water

Name of the state	Name of district/ KVK	Thematic area	Number of programm es organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
					holding capacity through FYM
		IPM	2	75	Proper spraying techniques & drainage of standing water for BPH management in paddy
		INM	3	100	Foliar Sparying of Boron in cauliflower to avoid cracking
		IWM	2	50	Spraying of 1% kaolinite clay to restrict transpiration loss in green gram & blackgram
		HOF	1	20	Application of Paclobutrazol after pruning in Mango to induce flowering

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

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

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

## 11. Details of TSP

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

Programmes	Physical achievements
Asset creation (Number; Sprayer, ridge maker, pump	
set, weeder etc.)	
On-farm trials (Number)	
Frontline demonstrations (Number)	
Farmers training (in lakh)	
Extension personnel training (in lakh)	
Participants in extension activities (in lakh)	
Seed production (in tonnes)	

Planting material production (in lakh)	
Livestock strains and fingerlings production (in lakh)	
Soil, water, plant, manures samples testing (in lakh)	
Provision of mobile agro – advisory to farmers (in lakh)	
No. of otherprogrammes (Swachha Bharat Abhiyaan,	
Agriculture knowledge in rural school, Planting material	
distribution, Vaccination camp etc.)	

b. Fund received under TSP in 2017-18 (Rs. In lakh):

c. Achievements of physical outcomeunder TSP during 2017-18

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

d. Location and Beneficiary Details during 2017-18

District	district V	No. of Village covered	Name of village(s) covered	S	ST population benefitted (No.)						
		Covered	covered	M	F	T					

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

Natural Resource Management

Natural Resource Management													
Name of	Numbers	No	Area	No of farmers covered / benefitted						Remarks			
intervention	under	of	(ha)										
undertaken	taken	units											
				SC	5	ST		Oth	er	Tot	al		
				M	F	M	F	M	F	M	F	T	

Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted							ed .	Remarks	
		SC	1	S	Γ	Ot	he	Т	ota	al	
		M	F	M	F	M	F	M	F	T	

Livestock and fisheries

Name of intervention undertaken	Numbe r of animals	No of unit	Area (ha)	No	of far be	Remarks		
	covered	S						
				SC	ST	Othe r	Total	
				M F	M F	M F	M F T	

## Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No	No of farmers covered / benefitted						Remarks		
			SC		ST		Oth	er	Tot	al		
			M	F	M	F	M	F	M	F	T	

Capacity building

cupacity building										
Thematic area	No of		No of beneficiaries							
	Courses									
		SC ST			Other			Tot		
		M	F	M	F	M	F	M	F	T

#### Extension activities

Billeribion weth there										
Thematic area	No of activities		No of beneficiaries							
		SC	C   C   C   C   C   C   C   C   C   C				1	_		
		M	F	M	F	M	F	M	F	T

## Detailed report should be provided in the circulated Performa

## 13. Awards/Recognition received by the KVK

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

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
1	Best progressive farmer award	Mr. Sudam Sahoo	2018	OUAT,Bhuabneswar	-	Innovation on Biopesticides

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

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

Sl. No.	Name of the	Trust Deed No. & date	Date of Trust Registratio	Proposed Activity	Commodit y Identified	No. of Member	Financia l position (Rupees	Succes s indicat
	22, 2302003		Address			7	in lakh)	or
1	Bodasambar Dal & Vegetable Producer Company Ltd., 2015- 16	U01403OR20 16PTC019845 & 28.01.2016	28.01.2016 At/P.o- Kendubhatt a PS-Gaisilet Bargarh 768037	Production of processed dal and vegetables	Involving the FPO members for Pigeon pea seed production under pulse seed hub programme	812	3.0	Promot ion of Dal in the brand name "Bodas ambar"
2	Ahinsa Farmer Producer Company Ltd.	U01403OR 2015PTC 019157 & 08.07.2015	08.07.2015 At- Bhutibahala PO- Raisalpadar PS-Gaisilet Bargarh 768037	Production of local paddy, pulses, millets	Training was given on production of different type of processed dal i.e. Pigeon pea, Horse gram with suitable branding	500	5.0	Conser vation of local germ plasam of paddy, Dal process ing & marketi ng, Prepara tion of value added product s from fingerm illet

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

Sl. No.	Module details (Compone nt-wise)	Area under IFS (ha)	(Commodi	Cost of production in Rs. (Componen t-wise)	Value realized in Rs. (Commodity- wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year

17. Technologies for Doubling Farmers' Income

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

			year due to adoption of the technology	in the district	
1	INM in groundnut	<ul> <li>Seed treatment with Rhizobium culture @ 20gm/kg seed</li> <li>Gypsum application @ 2.5 q/ha in groundnut</li> </ul>	22500	3000	
2	BPH management in Kharif paddy	<ul> <li>Varietal replacement with Pratikshya</li> <li>Line transplanting</li> </ul>	25200	400	3 4
3	Cultivation of High value vegetables	<ul> <li>Replacement of Cucucrbits with watermelon Var. Patengra</li> <li>INM in watermelon</li> </ul>	100800	320	
4	Management of sucking pest in greengram	<ul> <li>Green gram var. IPM 02-14</li> <li>Spraying of Imidachloprid 17.8 SL @ 1ml/4lit</li> </ul>	14820	600	
5	Rearing management of dual purpose poultry	<ul> <li>Breed-Rainbow Rooster</li> <li>Timely vaccination</li> <li>Supplementation with growth promoter or Vimeral @ 1 ml/1 lit/10 birds/day</li> </ul>	9560/20 birds	240	

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

	Database prej	pared/ covered for	KVK leve	l Committee	Various activity
Phase	Total no. of villages	Total no. of farmers	Date of formation	Name of members	conducted for farmers
I (up-to 15.03.2018)	5	50	08.02.2018	Dr. Anil	Field visit,
II (up-to 24.04.218)	308	3077		Kumar Swain	Advisory services,
III (Upto-	703	7028		(SS&H)	Demonstration,
19.05.2018)				Mr. Sanat	Training,
Total	1016	10155		Kumar Meher	Awareness camp

	Scientist
	(Horticulture)
	Mr. Sanat
	Kumar Meher
	(Prog. Asst.
	Computer)

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

<ul> <li>Mrs. Snehangini Chhuria.</li> <li>Hon'ble Minister of Handlooms, Textiles &amp; Handicraft, Govt. of Odisha.</li> <li>Appreciated the effort of KVK in high yielding seed production &amp; plant protection measures.</li> <li>Showed interested for kadaknath breed of poultry.</li> <li>Planted Mulbery plant in the Demo unit</li> </ul>	Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)
	29.08.2018	Mrs. Snehangini Chhuria.	of Handlooms, Textiles & Handicraft,	effort of KVK in high yielding seed production & plant protection measures.  • Showed interested for kadaknath breed of poultry.  • Planted Mulbery plant in the Demo

20. a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2017-18 and 2018-19

Year	Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants	Whether uploaded to SDMS Portal (Y/N)	Fund utilized for the training (Rs.)
2016-							
17							
2017-							
18							
2018-							
19							

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

Thomastic once	Title of the training	Dynation	No. of participants								Fund utilized	
Thematic area		Duration (in hrs.)	S( )		ST		Other		To		ıl	for the training
of training			M	F	M	F	M	F	M	F	T	(Rs.)

21. Information on NARI Project(if applicable)

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

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

## Krishi Kalyan Abhiyan- I and II

A. Training

Name of programme	No. of programmes			No. of officials							
programme	programmes	S	SC SI Others Total								attended the programme
KKA-I											
KKA-II											

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

	No. of Program me	Total quantity distributed			No. of farmers benefited								No. of other		
Name of		ogram See g me d mater (q) al	Plantin	_	Othe	SC		ST		Other s		Total		l	officials (except
program me			materi	Inpu t (kg)	r (kg/ No.)	M	F	M	F	M	F	M	F	Т	KVK) attended the program me
KKA-I															
KKA-II															

#### C. Livestock and Fishery related activities

			Activitie	s performed	i	No. of farmers benefited								No. of	
Nama		No of	No of	Feed/	Any other	SC		ST		Other s		Total			other official
Name of progra mme	No. of Progra mme	No. of No. of animal anima sup vaccin dewor	nutrient supplem ents provide d (kg)	(Distrib ution of animals/ birds/ fingerlin gs) [No.]	M	F	M	F	M	F	M	F	Т	s (except KVK) attende d the progra mme	
KKA-I															
KKA-															
II															

D. Other activities

Name of	Activities	No. of farmers benefited								No. of other	
programme		SC		ST		Others		Total			officials
		M	F	М	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

	Mishi Kaiyan Monyan-111										
No. of villages	No. of animal inseminated								Any other, if any (pl. specify)		
covered		SC ST Others Total					<b>4 1 3 3 3</b>				
		M	F	M	F	M	F	M	F	T	

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

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

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

→ genda - 3: Achievements made by KVK-

The Senior Scientist & Head presented in PPT the overall achievements of 2018-19 KVK activities with results. The summary of the activities is as follows:

Category	Achievement (No.)	Number of beneficiaries		
OFT	12	80		
FLD	20	200		
Training	53	1175		
Extension Activities	213	88933		
Total	298	90388		

#### Agenda - 4: Action Plan-

The Senior Scientist & Head briefed that the action plan for 2019-20 will be prepared by the recommendation of the SAC meeting, Best OFT and FLD of the year 2018-19, RE meeting feedback of extension personnel, Problems identified by the scientists during the Field visit, ZREAC meeting of Agro-climatic zone, SLREC meeting of the state, Zonal workshop of ICAR-ATARI, Zone -V, Kolkata. The KVK has planned to conduct 12 OFTs, 24 FLDs, 49 nos. of training for farmer and farm women, 13 nos. of training for Rural youths, 7 nos. of training for Extension functionaries and 7 nos. of vocational training for rural youths and 120 extension activities such as World Food Day, Mahila Kisan Diwas, Women in Agriculture Day, World Soil Day, Field day, Kisan Mela, Kishan Gosthi, Exhibition, Method Demonstration, Farm Advisory Services, Scientist Visit to Farmers Field, Diagnostic Visit, Ex-Trainees Sammelan, SHG Convenors meet, Soil Test Campaign etc.

#### Agenda - 5 Constraint of the KVK

- 1. Non availability of Staff Quarter
- 2. Reclamation of Swampy land into Pond
- 3. Repairing of farmers' hostel

#### Agenda - 6

#### SAC Recommendation

Discussions were made on the activities of KVK, Bargarh and following suggestions were made.

- 1. Technological Dissemination of pigeon pea var. PRG 176 with nipping practice.
- 2. Popularisation of vegetable production during Kharif season.
- 3. Production of Tomato seedling var: Arka Rakshak for line departments.
- 4. Demonstration of sunhemp as green manuring.
- 5. Performance evaluation of millets through farm mechanisation.
- Studies on performance of Kadaknath poultry in backyard.
- A trial for BPH management in paddy through ITK.
- 8. Popularisation of floating feed in fisheries.

Joint Director DEE, OUAT, Bhuaneswar DEE, OUAT, Bhubaneswar

KVK Bargarh

#### Annexure - I

Sl. No. Name		Designation & Address	Member / Invitee	
1.	Dr. B.K. Mohapatra	Joint Director Extension, OUAT, Bhubaneswar	Chairman	
2.	Dr. A K Mohanty	ADR, RRTTS, OUAT, Chiplima	Member	
3.	Mr. D. Gandhi	Dy Director of Agriculture, Bargarh	Member	
4.	Mr S K Seth	Asst Director of Horticulture, Bargarh	Member	
5.	Mr P K Pattnaik	Addl. Fishery Officer, Bargarh	Member	
6.	Mr J S Pradhan	Asst Soil Conservation Officer, Bargarh	Member	
7.	Mr Anil Dahanga	DPC, MS, DSWO, Baragarh	Member	
8.	Mr N N Ray	Watershed , Bargarh	Member	
9.	Mr Firoz Ku Sahu	Progressive farmer, Bhatli, Bargarh	Member	
10.	Mrs Diptimayee Pradhan	Progressive farm women, Attabira, Bargarh	Member	
11.	Sri Uddhaba Bhoi	Progressive farmer, Bheden, Bargarh	Member	
12.	Mr N C Barik	Scientist (PP), KVK Bargarh (Nominated)	Member	
13.	Mr Sudam Sahu	Representative of NGO	Member	
14.	Mr. Santanu Das	Representative of NGO	Member	
15.	Dr. A.K. Swain	Sr. Scientist & Head, KVK, Bargarh	Member	
16.	Dr R K Pattnaik	Associate Dean, C A, OUAT, Chiplima	Invitee	
17.	Mr Himansu Pradhan	Progressive farmer, Attabira, Bargarh	Invitee	
18.	Dr. J. Sen	Sr. Scientist & Head, KVK, Sonepur	Invitee	
19.	Dr J. Udgata	Sr. Scientist & Head, KVK, Jharsuguda	Invitee	
20.	Dr. S. Pattnaik	Sr. Scientist & Head, KVK, Sambalpur	Invitee	
21.	Mrs. S. Sahu	Scientist (H. Science)	Invitee	
22.	Miss. R. Begum	Scientist (P. Science)	Invitee	
23.	Er. T.C.Panda	Scientist (Ag. Eng)	Invitee	
24.	Mr. Alok Ku Sahoo	SMS (Ag. Extension)	Invitee	
25.	Mr. Dipankar Jena	Programme Asst (Seed Sc.)	Invitee	

Sr. Scientist & Head, KVK Bargarh Senito Scientist & Head KRISHI VIGYAN KENDRA OUAT, Bargarh- 768102



Assessment of BPH resistant variety "HASANTA"



Assessment of plant growth promoter "SEEDPRO" against Fusarium wilt of Tomato.



Assessment of Cauliflower Production in Kharif Season



Assessment the performance of different pigeon pea varieties



Assessment on performance of green gram var. IPM 02-14 with different date of sowing



Assessment on Performance of Tractor drawn Happy Seeder for Sowing Green Gram



**Assessment of Power Pulse Thresher** 



Assessment the performance of Amur carp in composite carp culture



Assessment of different substrates in vermicompost production



Demonstration of Integrated weed management in greengram



Demonstration on "Grain pro super bag" for storage of greengram seed



Popularization of Triple Disease Resistance tomato Hybrid "Arka Rakshak"



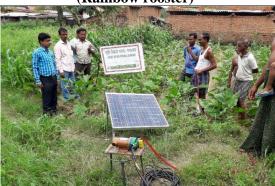
Demonstration of plastic mulching in new mango orchard



Demonstration of backyard poultry (Rainbow rooster)



Demonstration on Power Weeder for weeding in Brinjal



Popularization of Nano Solar Pump for irrigation in Kitchen Garden



Demonstration of tractor drawn seed cum fertiliser drill for sowing of finger millet



Supplementary feeding management (Floating feed) in pisciculture



Demonstration on production of Paddy straw mushroom with threshed straw



**Azolla Demonstration at KVK** 



Cluster Demonstration, PULSE (2018-19) : Line sown Greengram crop at village: Jharmunda, Block: Shohella, Bargarh



Cluster Demonstration, PULSE (2018-19)
: Pigeon pea Crop at peak vegetative stage at village: Charpali, Block:
Bijepur, Bargarh



Cluster Demonstration, PULSE (2018-19) Field day At-Kanheipali , Block-Ambabhona, Dist-Bargarh, Dt. 29.01.2019



Cluster Demonstration OILSEED (2018-19) Visit of Dr. Arbindo Kumar, DRR, Patna to Vill: Kharmunda, Block: Bijepur, Bargarh



Cluster Demonstration OILSEED (2018-19)
Weeding Summer Groundnut at villageSinghenpali, Block-Bheden, Bargarh



SEED HUB - Infrastructure Development Visit of Dr. Arvind Kumar, STO, DRD Patna for Pulse Seed Processing Unit



SEED HUB - Infrastructure Development Building work under progress



Celebration of Women in Agriculture, At-Jogipali, Block-Attabira



Celebration of World Soil Day, At-KVK Campus



**Celebration of Kisan Day** 



**Celebration of World Food Day** 



Monitoring of seed hub activities by DRD, Patna



Exhibition on 14<sup>th</sup> National Agril. Science Congress, IARI, Delhi



Live Web telecast of interaction of SHG



Inspection of Seed production activities DRD, Patna



Visit of Hon'ble Minister of Handloom & Textiles, Govt. of Odisha



Visit of Dr. M. Muthukumar, IAS, Director of Agriculture & Food production



Visit of Hon'ble Vice-Chancellor, OUAT, and Collector and District Magistrate, Bargarh.



Visit of Dr. M.P. Nayak, Joint Director, DEE, OUAT to Mulberry Plantation



Visitor to KVK – Farmars



Visitor to KVK – Farmars



Visitor to KVK – Farmars



Swachhta Hi Sewa activities (Dt. 22.09.2018 to 02.10.2018)



Swachhta Hi Sewa activities (Dt. 22.09.2018 to 02.10.2018)



Swachhta Hi Sewa activities (Dt. 22.09.2018 to 02.10.2018)



**Swachhta Hi Sewa activities** (Dt. 22.09.2018 to 02.10.2018)



Felicitation to Mr Sudam Sahu, Innovative farmer of the district



Sri Jasobanta Sahu, Village: Sarkanda, Block - Sohela has awarded Farmer Innovator 2018 (Wheel Cycle R







Publications : News Letter April-June 2018

Publications : News Letter July -December 2018



Publications: Newspaper "PRAMEYA"

Publications: Poster presentation

Impact analysis of demonstration on integrated national forms of the control of t

Publications: Research Paper



Swachhata National Award (2<sup>nd</sup> Prize) for KVK Bargarh