

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

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Kalahandi, Bhawanipatna-766001	Office	FAX	<a href="mailto:kvkalahandi.ouat@gmail.com">kvkalahandi.ouat@gmail.com</a> <a href="mailto:kalahandikvk@yahoo.co.in">kalahandikvk@yahoo.co.in</a>
	8763019752		

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

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology, Bhubaneswar	0674-2397362	0674-2397933	<a href="mailto:deanextensionouat@yahoo.com">deanextensionouat@yahoo.com</a> <a href="mailto:deanextension_ouat@rediffmail.com">deanextension_ouat@rediffmail.com</a>

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

Name	Telephone / Contact		
	Residence	Mobile:	Email :
Dr. Amitabh Panda		9437297307	<a href="mailto:amitabhp70@gmail.com">amitabhp70@gmail.com</a>

1.4. Year of sanction of KVK: 1994

1.5. Staff Position (as on 1<sup>st</sup> April, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/Temporary	Category (SC/ST/OBC/ Others)
1	Senior Scientist & Head	Dr. Amitabh Panda	Senior Scientist & Head	Horticulture	Scale Pay: 15,600-39,100/-+ GP 8,000/- Present basic: 22,320/-	17.05.2018	Permanent	OT
2	Subject Matter Specialist	Sri Tapan Kumar Das	Scientist	Plant Protection	Scale Pay: 15,600-39,100/-+ GP 6,000/- Present basic: 22,220/-	07.02.2014	Permanent	OT
3	Subject Matter Specialist	Dr. Hrudananda Malik	Scientist	Animal Science	Scale Pay: 15,600-39,100/-+ GP 6,000/- Present basic: 17,610/-	16.06.2015	Permanent	SC
4	Subject Matter Specialist	Miss Madhumita Jena	Scientist	Agri. Extension	Scale Pay: 15,600-39,100/-+ GP 6,000/- Present basic: 22,220/-	08.04.2010	Permanent	OT
5	Subject Matter Specialist	Smt. Tulasi Majhi	Scientist	Horticulture	Scale Pay: 15,600-39,100/-+ GP 6,000/- Present basic: 20,590/-	22.05.2012	Permanent	ST
6	Subject Matter Specialist	Miss Utkalika Naik	Scientist	Agronomy	Scale Pay: 15,600-39,100/- + GP 6,000/- Present basic: 15,600/-	11.09.2018	Permanent	ST
7	Subject Matter Specialist	-	-	-	-	-	--	--
8	Programme Assistant	Sri Srikrushna Behera	Programme Asst.	Plant Physiology	Scale Pay: 9,300-34,800/- + GP 4,200/- Present basic: 10,560/-	22.12.2015	Permanent	OT
9	Computer Programmer	Sri Dillip Kumar Barik	Programme Asst.	Computer	Scale Pay: 9,300-34,800/- + GP 4,200/-	04.12.2012	Permanent	OT

					Present basic: 11,940/-			
10	Farm Manager	-	-	-	-	-	--	--
11	Accountant / Superintendent	-	-	-	-	-	--	--
12	Stenographer	Miss Chandrakanti Mallick	Stenographer	Junior Steno- Cum-Computer Operator	Scale Pay: 5,200-20,200/- + GP 2,400/- Present basic: 5,920/-	27.07.2015	Permanent	SC
13.	Driver	Sri Keshab Chandra Sa	Driver	Driver-Cum- Mechanic	Scale Pay: 5,200-20,200/- + GP 1,900/- Present basic: 7,400/-	19.07.2008	Permanent	OT
14.	Driver	Sri Pradeep Kumar Pradhan	Driver	Driver-Cum- Mechanic	Scale Pay: 5,200-20,200/- + GP 1,900/- Present basic: 5,870/-	27.07.2015	Permanent	ST
15.	Supporting staff	Sri Bhut Naik	Peon	Peon-Cum- Watchman	Scale Pay: 4,440-7,440 + GP 1,700/- Present basic: 6,270/-	26.07.2008	Permanent	SC
16.	Supporting staff	Sri Sangita Goud	Group-D	Group-D	Scale Pay: 4,750-14,680/- + GP 1,700/- Present basic: 5,550/-	28.11.2014	Permanent	OT

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.0
2.	Under Demonstration Units	0.4
3.	Under Crops	12.0
4.	Orchard/Agro-forestry	0.4
5.	Others with details	0.4 (cross road)
	Total	14.2

Total area should be matched with breakup

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building	-	-	-	-	completed	4000- sq.mt	use	ICAR
2.	Farmers Hostel	-	-	-	-	completed	200 sq.mt	use	RKVY
3.	Staff Quarters (6)	-	-	-	-	completed	100sq.mt	use	ICAR
4.	Piggery unit	Not yet	-	-	-	-	-	-	-
5	Fencing	Not yet	-	-	-	-	-	-	-
6	Rain Water harvesting structure	-	-	-	-	-	0.4acre	use	RKVY
7	Threshing floor	-	-	-	-	Completed	250sq. mt	use	RKVY
8	Farm godown	-	-	-	-	Completed	100sq. mt	use	RKVY
9.	Dairy unit	Not yet	-	-	-	--		use	--
10.	Poultry unit	-	-	-	-	Completed		use	RKVY
11.	Goatary unit	Not yet	-	-	-	--	--	--	--
12.	Mushroom Lab	-	-	-	-	Completed	150 sq.mt	use	RKVY
13.	Mushroom production unit	-	-	-	-	Completed	150 sq.mt	use	RKVY
14.	Shade house	-	-	-	-	Completed	600sq.mt	use	RKVY
15.	Soil test Lab	-	-	-	-	Completed	75sq.mt	use	ICAR

\* 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	2009	4,90,200/-	2,20,000 km.	Running
Tractor	2019	6,32,274/-	20hour	Running
Motor cycle	2007	45,000/-	37,163Km	Running

## C) Equipment &amp; AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Laminar Flow	2010-11	49,000	Functioning	RKVY
Hot Air Oven	2010-11	15,000	Functioning	RKVY
Autoclave	2010-11	62,000	Functioning	RKVY
Refrigerator	2010-11	19,000	Functioning	RKVY
Weighing Balance	2010-11	5,460	Functioning	RKVY
Portable hatchery	2017-18	99,000	Functioning	NICRA
b. Farm machinery				
c. AV Aids				
Projector screen	2017-18	30,900	Functioning	ICAR
Projector	2017-18	11,500	Functioning	ICAR
Genset Generator	2017-18	48,736	Functioning	ICAR

## D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Power sprayer	2012-13	7,300	Functioning	ICAR
11 tyne cultivator	2018-19	24,000	Functioning	ICAR
Cage wheel	2018-19	21,000	Functioning	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.	05.09.2019	35	<p>Promotion and creating awareness of Brown Plant Hopper (BPH) tolerant paddy varieties.</p> <p>Weed incidence and high infestation of diseases results into lower yield in paddy</p> <p>Demonstration on Disease resistance varieties (Wilting and blight infestation) in Tomato may be taken up.</p> <p>Popularization of improved poultry breed may be promoted in tribal pockets for sustainable livelihood security</p> <p>Measures to be taken to control irregular bearing habit of local varieties of mango</p> <p>Institutional linkage of KVK with the line department should be strengthened</p> <p>Promotion and popularization of HYVs of vegetables crops for better productivity and demonstration of integrated pest management practices</p> <p>Development of small bankable model for promotion of duck /poultry farming in the district:</p> <p>Development of farming system model in each adopted village</p>	<p>OFT/FLD on (IPM or IDM or INM ) paddy may be conducted at farmers field to solve the emerging issues</p> <p>Best innovative technologies may be demonstrated at Doubling Farmers Income (DFI ) villages along with impact on technology intervention to be studies and documented</p> <p>As cotton is a predominate cash crop, latest technologies on planting system and management of sucking pest to be taken up.</p> <p>In upland rained areas weed management and crop diversification to be practiced</p> <p>Integrated pest management and weed management of major growing</p> <p>Focus should be on promotion of Integrated Nutrient management of fruit crops and particularly canopy Management practices of Mango crop.</p> <p>Popularization of improved poultry breed suitable for backyard condition may be promoted in tribal pockets for sustainable livelihood security.</p> <p>Promotion of vaccination schedule , feed supplement and worm infestation of large ruminants to be taken up</p>	--

\* Salient recommendation of SAC in bullet form

Attach a copy of SAC proceedings along with list of participants

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

Sl. no.	Item	Information
1	Major Farming system/enterprise	Paddy-Greengram Paddy-Paddy Cotton-Fallow
2	Agro-climatic Zone	Western undulating
3	Agro ecological situation	Red Soil, Medium Rainfall, Medium elevation Red Soil, High Rainfall, Medium elevation Red Soil, High Rainfall, High elevation Red & Yellow Soil, High Rainfall, Medium elevation Black Soil, Medium Rainfall, Medium elevation Black Soil, High Rainfall, Medium elevation Alluvial Forest Soil
4	Soil type	Red soil, Red & Yellow, Mixed Red & Black soil, Black Soil Alluvial Soil
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Paddy-43q/ha Maize -44.5q/ha Greengram-7.1q/ha Groundnut-20q/ha Onion -158q/ha Cotton-15q/ha Pigeonpea-12.3q/ha Blackgram-6.3q/ha Banana-215.6q/ha Brinjal-168.7q/ha
6	Mean yearly temperature, rainfall, humidity of the district	Maximum temperature = 43 °C (2018) Minimum temperature = 6 °C (2018) 1330.5 mm
7	Production of major livestock products like milk, egg, meat etc.	Milk yield-53200MT Per capita milk availability-89gm/day Goat population-216924 Broiler population-258779 Layer population-291660 Duck population-24378

Note: Please give recent data only

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

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1.	Boria,	Kesinga	Boria	Pigeon pea-fallow Paddy-green gram Poultry	Low yield due to severe pod borer infestation in Pigeonpea Blanket Fertilizer and High Seed rate Low yield due terminal drought in Paddy High weed incidence and Imbalance dose of fertilizer application Incidence of blast & sheath blight disease in paddy YMV infestation and High seed rate in Greengram Low income from poultry due to rearing of local bird Erratic Rainfall	Crop diversification in rainfed upland situation  Promotion of drought tolerant short duration paddy varieties  Cultivation of Kharif potato and onion Green manuring for sustainable soil health  <i>Paira</i> cropping (Greengram/ Chickpea/ Fieldpea/ Lathyrus)
2.	Boden	Dharmagarh	Boden	Vegetable-Vegetable Paddy-Paddy Paddy-green gram Poultry	Fruit and shoot borer is the major problem in Brinjal Use of low quality planting material Infestation of Sucking pest and wilting problem in chilli Use of low quality planting material Whip tail and DBM in Cauliflower and micronutrient deficiency in Cauliflower. Fruit borer and leaf curl in tomato Imbalance fertilization (heavy use of N fertilizer application Leaf folder, BPH, WBPH & Gall midge incidence Low income due to local cultivar High weed incidence Sucking pest infestation Erratic Rainfall & late release of canal water	Organic farming for vegetables and line sowing of paddy and other crops. Popularization of farm machinery  Coverage of rice fallow areas by pulses Aquaculture practices in low lying areas  Rearing of Quail, Duck and Ornamental birds  Rearing of dairy goat (Jamunapari) for milk production Cultivation of fodder grasses (Hybrid napier, Maize, Cowpea) Up gradation of indigenous cow by selective mating with locally available superior bull.



3.	Kamardha	Lanjigarh	Kamardha	Maize -fallow Paddy-Green gram Poultry-goatery	Weed infestation in upland Maize High weed incidence Imbalance dose of fertilizer Low yield due terminal drought Incidence of BLB Incidence of sheath blight disease in paddy High endoparasitic infestation in Cattles High morbidity and mortality rate of kids with lower birth weight No use of supplementary feeding Low income from poultry due to rearing of local bird Drought prone & erratic rain fall	Mushroom cultivation
4.	Temri	Golamunda	Temri	Black gram-Ground nut Paddy-Vegetables Paddy-paddy Poultry	Early leaf spot and bud necrosis in Groundnut high rate of insect pest infestation (BPH& Stem Borer) in Paddy Fruit borer and leaf curl in tomato DBM in Cauliflower and leaf Webber in Cabbage Stem Borer, Gall Midge, BPH & WBPH incidence Blast and sheath blight Drought prone, erratic rain fall & undulating land situation	
5.	Dahal	Narla	Dahal	Cotton-fallow Paddy-Green gram Poultry-goatery	High incidence of sucking pest and bollworm in Cotton Rampant use of fertilizer & indiscriminate use of plant chemicals High weed incidence Imbalance dose of fertilizer Low yield due terminal drought in Paddy Incidence of sheath blight disease in paddy Incidence of leaf spot & Powderly mildew in Greengram Lack crop management practices Drought prone & erratic rain fall	

## 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
Boria	Kesinga	Assessment of BPH tolerant rice varieties
Boden	Dharmagarh	Assessment of brown manuring in direct seeded rice
Kamardha	Lanjigarh	Assessment of disease resistant Tomato varieties under rainfed condition
Temri	Golamunda	Introduction of capsicum varieties under irrigated medium land
Dahala	Narla	Assessment on effects of mineral mixture and vitamins on reproductive performance (fertility) in cow
		Assessment of different breeds of chicken in backyard condition
		Assessment of different management schedules for control of mite infestation in Chilli
		Assessment of integrated approach for management of red spider mite in brinjal
		Demonstration on integrated weed management in transplanted rice
		Demonstration on integrated nutrient management practices in finger millet
		Demonstration on real time nitrogen management by LCC in rice
		Demonstration of sweet corn var. <i>Sugar-75</i> in rice- maize cropping system
		Demonstration on Performance of Brinjal variety <i>Arka Navneeth</i>
		Demonstration on High yielding variety Sweet Potato <i>Kanchan</i>
		Demonstration on Paclobutrazol application for inducing regular bearing habit in mango
		Demonstration on micro-nutrient management in tissue culture banana
		Demonstration on duck ( <i>White Peking</i> ) farming
		Demonstration of management in goat for enhanced milk and meat production
		Demonstration on round the year Fodder cultivation
		Demonstration of Quail farming
		Demonstration on IPM modules for the management of plant hoppers in rice
		Demonstration on (Tebuconazole + Trifloxystobin) for Sheath blight mgt. in Paddy.
		Demonstration on management of collar rot disease in ground nut
		Demonstration on IDM for seed and seedling blight in green gram in rice-green gram cropping system

## 2.1 Priority thrust areas

S. No	Thrust area
1.	Crop diversification in rainfed upland situation
2.	Promotion of drought tolerate short duration paddy varieties
3.	Cultivation of Kharif potato and onion
4.	Green manuring for sustainable soil health
5.	<i>Paira</i> cropping (Greengram/Chickpea/Fieldpea/Lathyrus)
6.	Organic farming for vegetables and line sowing of paddy and other crops.
7.	Popularization of farm machinery
8.	Coverage of rice fallow areas by pulses



Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
240	200.9	2.0	1.36500

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
--	0.00828	--	0.00412s

\* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper	02	--	02	5.38	5.2	--	--
Seminar/conference/ symposia papers	--	--	--	--	--	--	--
Books	02						
Bulletins	--	--	--	--	--	--	--
News letter	01	--	--	--	-	--	--
Popular Articles	03	--	--	--	-	--	--
Book Chapter		--	--	--	-	--	--
Extension Pamphlets/ literature	03	--	--	--	-	--	--
Technical reports		--	--	--	-	--	--
Electronic Publication (CD/DVD etc)	--	--	--	--	-	--	--
TOTAL	11	--	--	--	-	--	--

## 1 Achievements on technologies assessed and refined

**OFT-1**

1.	Title of On farm Trial	Assessment of BPH tolerant medium duration rice varieties <i>Cv. Hasanta</i>
2.	Problem diagnosed	Low yield of paddy due to high incidence of BPH infestation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP-Rice var. <i>MTU-1001</i> (Dur.-140 days, tolerant to BPH & Blast. Av. Yield- 40q/ha) TO <sub>2</sub> - Rice var. <i>CR Dhan 300</i> ( Dur.- 135-140 days, non- lodging type, mod. Resistant to BPH, Av. Yield- 55q/ha) TO <sub>3</sub> - Rice var. <i>Hasanta</i> (Dur.- 145 days, non-lodging type, mod. Resistant to BPH, Av. Yield-50q/ha)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	FP-OUAT BBSR,1997 TO <sub>2</sub> -NRRI, Cuttack 2013 TO <sub>3</sub> -OUAT, BBSR,2017
5.	Production system and thematic area	Varietal Trial
6.	Performance of the Technology with performance indicators	Pest infestation %, No of effective tiller/hill, Panicle length, Test weight Yield, B:C ratio, Net profit
7.	Final recommendation for micro level situation	TO <sub>3</sub> - Rice var. <i>Hasanta</i> having the low (5%) BPH infestation.
8.	Constraints identified and feedback for research	--
9.	Process of farmers participation and their reaction	Farmers are interested for cultivation of <i>Hasanta</i> variety

*Thematic area:* Others, (cultivation of crops )

Problem definition: Low yield of paddy due to high incidence of BPH infestation

Technology assessed:

FP-Rice var. *MTU-1001* (Dur.-140 days, tolerant to BPH & Blast. Av. Yield- 40q/ha)

TO<sub>2</sub> - Rice var. *CR Dhan 300* ( Dur.- 135-140 days, non-lodging type, mod. Resistant to BPH, Av. Yield-55q/ha)

TO<sub>3</sub> - Rice var. *Hasanta* (Dur.- 145 days, non-lodging type, mod. Resistant to BPH, Av. Yield-50q/ha)

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7	9.21	72	28.5	19.85	31.45	27200	47175	19975	1.73
TO <sub>2</sub>	7	11.42	74	28.62	11.12	34.15	27600	51225	23625	1.86
TO <sub>3</sub>	7	13.93	81	28.96	5.01	38.75	28500	58125	29625	2.04

Results: Rice var. *Hasanta* having the low (5%) BPH infestation and having highest yield (38.75q/ha.) as well as highest return per rupee invested(2.04).

#### OFT-2

1.	Title of On farm Trial	Assessment of brown manuring in direct seeded rice
2.	Problem diagnosed	Decrease in yield due to low soil fertility.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP- Only chemical fertilizer (FP) TO <sub>2</sub> - Soil test based fertilizers+ FYM 5t/ha TO <sub>3</sub> - Sowing of Dhaincha seeds @15 kg/ha along with rice, application of 2,4-D ethyl ester 1 kg a.i/ha at 30 DAS +RDF
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT BBSR,2009
5.	Production system and thematic area	Integrated Crop Management
6.	Performance of the Technology with performance indicators	No of effective tiller/hill, Panicle length, Test weight Yield, B:C ratio, Net profit
7.	Final recommendation for micro level situation	Sowing of Dhaincha seeds @15 kg/ha along with rice, application of 2,4-D ethyl ester 1 kg a.i/ha at 30 DAS +RDF
8.	Constraints identified and feedback for research	--
9.	Process of farmers participation and their reaction	Farmers are interested for brown manuring

*Thematic area:* Integrated Crop Management

Problem definition: Low yield due to low soil fertility.

Technology assessed:

FP- Only chemical fertilizer (FP)

TO<sub>2</sub> - Soil test based fertilizers+ FYM 5t/ha

TO<sub>3</sub> - Sowing of Dhaincha seeds @15 kg/ha along with rice, application of 2,4-D ethyl ester 1 kg a.i/ha at 30 DAS +RDF

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (1000 grain wt.)						
FP	7	9.4	78	28.4	-	31.6	27500	55300	27800	2.01
TO <sub>2</sub>	7	14.4	82	28.7	-	37.7	29500	65975	36475	2.24
TO <sub>3</sub>	7	14.9	94	28.9	-	38.1	29500	66675	37175	2.26

Results: The yield of Rice in TO<sub>3</sub> -Brown manuring (38.1q/ha.) is at par with Soil test based fertilizers+ FYM 5t/ha (37.7q/ha.) but in long term it stabilizes the fertility status of the soil hence TO<sub>3</sub> -Brown manuring is recommended.

**OFT-3**

1.	Title of On farm Trial	Assessment of Nutrient Management in Chickpea
2.	Problem diagnosed	Improper growth due to blanket use of fertilizers and Biofertilizers ultimately leads to decrease in yield
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP- No use of required amount of micronutrient and Biofertilizers  TO <sub>2</sub> - STBF (NPK)+Soil application of Sulphur@20kg/ha through gypsum  TO <sub>3</sub> - Inoculation of seeds with Biofertilizers such as Rhizobium@20g/ka seeds and PSB 10-12 hours before Sowing + Soil application of Sulphur@20kg/ha through gypsum
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT,2011
5.	Production system and thematic area	Integrated Crop Management
6.	Performance of the Technology with performance indicators	No of pods/plant, No. of seeds/Pod, Plant Height, Test weight, Yield, B:C ratio, Net profit
7.	Final recommendation for micro level situation	Inoculation of seeds with Biofertilizers such as Rhizobium@20g/ka seeds and PSB 10-12 hours before Sowing + Soil application of Sulphur@20kg/ha through gypsum
8.	Constraints identified and feedback for research	--
9.	Process of farmers participation and their reaction	Farmers shows interest for adoption of the technology

*Thematic area:* Integrated Crop Management

Problem definition: Improper growth due to blanket use of fertilizers and Bio-fertilizers ultimately leads to decrease in yield



Technology assessed:

**FP**- No use of required amount of micronutrient and Bio-fertilizers

**TO<sub>2</sub>** - STBF (NPK)+Soil application of Sulphur@20kg/ha through gypsum

**TO<sub>3</sub>** - Inoculation of seeds with Biofertilizers such as Rhizobium@20g/ka seeds and PSB 10-12 hours before Sowing + Soil application of Sulphur@20kg/ha through gypsum

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No of pods/plant	No. of seeds/Pod	Test wt. (100 grain wt.)						
FP	7	23.45	1.02	24.1	-	8.2	16100	45100	29000	2.80
TO <sub>2</sub>	7	37.56	1.14	24.6	-	12.1	17100	66550	49450	3.89
TO <sub>3</sub>	7	39.89	1.21	24.8	-	12.6	17300	69300	52000	4.01

Results: The **TO<sub>3</sub>** - Inoculation of seeds with Bio-fertilizers such as Rhizobium@20g/ka seeds and PSB 10-12 hours before Sowing + Soil application of Sulphur@20kg/ha through gypsum is recommended as the yield of Chickpea is maximum.

OFT-4

1.	Title of On farm Trial	Assessment of suitable management schedule for mite infestation in Chilli
2.	Problem diagnosed	No specific control measure or irrational application of any broad spectrum acaricide. Applying profenophus & Triazophus
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-1- Removal of affected plant part + Spraying of water to break the webs +Need based application of Fenazaquin 10 EC @ 1 ml/lit. at 7-8 days interval TO-2- Removal of affected plant part + Spraying of water to break the webs+ Need based application of Fenpyroximate 5 EC @1 ml/ lit at 7-8 days interval
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Dept. of Entomology, OUAT 2010
5.	Production system and thematic area	Rice- Chilli IPM
6.	Performance of the Technology with performance indicators	Less numbers of plant have been affected by application of new generation acaricide with increased in production by 34 to 35 %. Net return increased by 50,000 to 53,000/ha with a B:C ratio of 2.8 to 3.4
7.	Final recommendation for micro level situation	Need based alternate application of Fenazaquin 10 EC @ 1 ml/lit. and Fenpyroximate 5 EC @1 ml/ lit at 7-8 days interval with balanced dose of nitrogenous fertilizer application can manage the mite population effectively.
8.	Constraints identified and feedback for research	Any low cost bio control management practices with suitable nutrient management schedule need to identified for mite management.
9.	Process of farmers participation and their reaction	More number of farmers need to demonstrated by using the technology. Farmers are appreciated to see the result of new generation acaricide

*Thematic area:* Others, (IPM )

Problem definition: Low yield of Chilli due to high infestation of mite at reproductive stage of crop

Technology assessed:

FP-No control measure or irrational application of any broad spectrum acaricide

TO<sub>1</sub> - Removal of affected plant part + Spraying of water to break the webs + Need based application of Fenazaquin 10 EC @ 1 ml/lit. at 7-8 days interval

TO<sub>2</sub> - Removal of affected plant part + Spraying of water to break the webs+ Need based application of Fenpyroximate 5 EC @1 ml/ lit at 7-8 days interval Table:

Technology option	No. of trials	Yield component		% of infestation	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of fruit/plant	No of affected plant/m <sup>2</sup>						
FP	7	310	2	15	30	56000	150000	94000	2.67
TO <sub>1</sub>	7	439	0	2	45	62000	225000	163000	3.6
TO <sub>2</sub>	7	478	0	2	43	63000	215000	152000	3.4

## OFT-5

1.	Title of On farm Trial	Assessment of integrated approach for management of red spider mite in brinjal
2.	Problem diagnosed	Low yield of brinjal due to high infestation of red spider mite during fruiting stage of the crop
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Application of neem cake @ 250 kg/acr with soil test based RDF with balanced nitrogen application. Installation of blue trap @ 25 no/ha Application of Etoxazole 10 % SC @ 40 gm a.i /ha
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Ouat, BBSR 2011
5.	Production system and thematic area	Irrigated medium land Rice brinjal
6.	Performance of the Technology with performance indicators	By application of the technology production increased by 20.5 to 21.6 % with a net return of Rs. 130000 to Rs, 140000 with B:C 2.7 to 3.3
7.	Final recommendation for micro level situation	Application of neem cake @ 250 kg/acr with soil test based RDF with balanced nitrogen application with need based application of new generation acaricide Etoxazole 10 % SC @ 40 gm a.i /ha effectively manage the mite infestation in brinjal crop.
8.	Constraints identified and feedback for research	Suitable agronomical POP with RDF with suitable bio control pest management strategies may be identified.
9.	Process of farmers participation and their reaction	More number of farmers need to demonstrated by using the technology. Farmers are appreciated to see the result of new generation acaricide

*Thematic area:* Others, (IPM )

Problem definition: Low yield of brinjal due to high infestation of red spider mite during fruiting stage of the crop

Technology assessed: FP- No control measure or irrational application of any broad spectrum acaricide

TO<sub>1</sub> - Application of neem cake @ 250 kg/acr with soil test based RDF with balanced nitrogen application.

TO<sub>2</sub> - Application of Etoxazole 10 % SC @ 40 gm a.i /ha

Table:

Technology option	No. of trials	Yield component			% of infestation	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of fruits/plant	No of plant affected/mt <sup>2</sup>	Extent of infestation (%)						
FP	7	36	3	35	16	145	57000	145000	88000	2.5
TO <sub>1</sub>	7	48	0	4	4	185	63000	185000	122000	2.9
TO <sub>2</sub>	7	51	0	3	3	195	65000	195000	130000	3.0

## OFT-6

1.	Title of On farm Trial	Assessment of disease resistant Tomato varieties under rainfed condition
2.	Problem diagnosed	Low yield due to wilting and blight infestation in tomato
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	T O 1- Tomato var. Arka Rakshak Triple disease resistance tomato hybrid Arka Rakshak, resistant to ToLCV, BW and early blight with the initial yield potential of 75-80 t/ha. Fruits are square round, large (90-100 g), deep red with very firm fruits and suitable for both fresh distance marketing as well as processing. TO2- Tomato var. Arka Samrat High yielding F1 hybrid with triple disease resistance to ToLCV, BW and early blight. Fruits oblate to high round, large (90-110g), Deep red, firm fruits Suitable for fresh market. Yields 80-85 t/ha. Duration-140 days
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Indian Institute of Horticulture Research, Bangalore 2014
5.	Production system and thematic area	Varietal evaluation
6.	Performance of the Technology with performance indicators	Fruit Wt. (g), Blight infestation (%), Wilt infestation (%), Days to harvest, Yield, B:C ratio, Net Profit
7.	Final recommendation for micro level situation	TO2- Tomato variety Arka Samrat
8.	Constraints identified and feedback for research	-
9.	Process of farmers participation and their reaction	Farmer preference is more in Tomato var. Arka Samrat due to its size and taste.

*Thematic area:* Others, (cultivation of crops)

*Problem definition:* Low yield due to wilting and blight infestation in tomato

*Technology assessed:* FP- Tomato var. Abhilash, TO1- Tomato var. Arka Rakshak, TO2- Tomato var. Arka Samrat

Table:

Technology option	No. of trials	Yield component		Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Wilt Infestation (%)	Fruit Wt (g)						
FP	7	20	82	25	232	83000	185600	102600	2.2
TO <sub>1</sub>	7	8	87	3	318	105000	254400	149400	2.4
TO <sub>2</sub>	7	8	98	2	325	105000	260000	155000	2.5

OFT-7

1.	Title of On farm Trial	Introduction of capsicum varieties under irrigated medium land
2.	Problem diagnosed	Low return from local chilli
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO1- Capsicum var. Arka Gourav Tolerant to bacterial wilt. Indeterminate plant habit with green foliage. Thick fleshed, 3-4 lobed green blocky fruits. Average fruit weight 130-150 g. Fruits erect which turn orange yellow on ripening. Yield potential of 16 t/ha. Duration- 150 days TO2- Capsicum var. Arka Mohini Determinate plant habit with dark green foliage. Thick fleshed, 3-4 lobed dark green blocky fruits. Average fruit weight 180-200 gms Fruits pendent, which turn red on ripening. Yield potential of 20 t/ha Duration of 160 days
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Indian Institute of Horticulture Research, Bangalore 2010
5.	Production system and thematic area	Varietal evaluation
6.	Performance of the Technology with performance indicators	Fruit wt. (g), Plant Height (Cm) Yield, B:C ratio, Net Profit
7.	Final recommendation for micro level situation	TO2- Capsicum var. Arka Mohini
8.	Constraints identified and feedback for research	--
9.	Process of farmers participation and their reaction	Unavailability of seed on time

*Thematic area:* Others, (cultivation of crops )

Problem definition: Low return from local chilli

Technology assessed: FP- cultivation of Chilli

TO1- Capsicum var. Arka Gourav

TO2- Capsicum var. Arka Mohini

Table:

Technology option	No. of trials	Yield component		Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Fruit Wt. (g)	Plant height (Cm) No. of fruit/plant						
FP	7	12	129	28	45	96000	225000	129000	2.3
TO <sub>1</sub>	7	72	91.4	12	110	185000	550000	365000	3.0
TO <sub>2</sub>	7	85	92.6	10	118	185000	590000	405000	3.1

OFT-8

1.	Title of On farm Trial	Assessment on effects of mineral mixture and vitamins on reproductive performance (fertility) in cow
2.	Problem diagnosed	Low rate of estrus, silent heat, low income
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO 1: Deworming with administration of macro minerals (Phosphorous)+vitamins (A,D,E, H) at 7 days interval+ 1 kg concentrate/day+15-20 kg grass for 6 month TO2: Deworming with administration of vitamins (A,D,E, H) at 7 days interval + microminerals (Zn, Fe, Co, Cu, I, Mn, Se) for twenty days+1 kg concentrate/ day+15-20 kg grass for 6 month TO 3: Deworming with administration of macro minerals (Phosphorous) at 7 days interval + microminerals (Zn, Fe, Co, Cu, I, Mn, Se) for twenty days+1 kg concentrate/day+15-20 kg grass for 6 month
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ATARI-KOLKOTA
5.	Production system and thematic area	Livestock production
6.	Performance of the Technology with performance indicators	Estrus cycle (%), Conception rate (%), live birth (%)
7.	Final recommendation for micro level situation	Deworming with administration of vitamins (A,D,E, H) at 7 days interval + microminerals (Zn, Fe, Co, Cu, I, Mn, Se) for twenty days+1 kg concentrate/ day+15-20 kg grass for 6 month improves fertility status of dairy cow in field level
8.	Constraints identified and feedback for research	Heterogeneous population, monitoring is difficult in field level
9.	Process of farmers participation and their reaction	There is increase in conception rate and heat in cow. Some cow are now in pregnancy stage

*Thematic area:* Livestock production

*Problem definition:* Low rate of estrus, silent heat, low income

*Technology assessed:* Assessment on effects of mineral mixture and vitamins on reproductive performance (fertility) in cow

*Table:*

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Estrus cycle (%)	Conception rate (%)	Live birth (%)						
F0- Rearing of cow without administering vitamins, microminerals and phosphorous TO 1: Deworming with administration of macro minerals (Phosphorous)+vitamins (A,D,E, H) at 7 days interval+ 1 kg concentrate/day+15-20 kg grass for 6 month TO2: Deworming with administration of vitamins (A,D,E, H) at 7 days interval + microminerals (Zn, Fe, Co, Cu, I, Mn, Se) for twenty days+1 kg concentrate/ day+15-20 kg grass for 6 month TO 3: Deworming with administration of macro	7	FP-44 TO1-62 TO2-74 TO3-68	FP-40 TO1-53 TO2-62 TO3-59	-	-	-	-	-	-	

minerals (Phosphorous) at 7 days interval + microminerals (Zn, Fe, Co, Cu, I, Mn, Se) for twenty days+1 kg concentrate/day+15-20 kg grass for 6 month										
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## OFT-9

1.	Title of On farm Trial	Assessment of different breeds of chicken in backyard condition
2.	Problem diagnosed	Low body weight, low egg laying capacity, High mortality rate
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP- Rearing of indigenous chicken with 30-50 gm of feed per bird. TO 1: Rearing of Vanaraja with multi enzyme mixture (Multistar & Vanvit-H) @ 1 tsp full per 10 birds/day with 30-50 gm of feed per bird. TO2: Rearing of Kadaknath with Multienzyme mixture (Multistar & Vanvit-H) @ 1 tsp full per 10 birds/day with 30-50 gm of feed per bird.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CPDO, Bhubaneswar
5.	Production system and thematic area	Livestock production
6.	Performance of the Technology with performance indicators	Avg. Body weight gain (g/week), Annual Egg Production (no.), Mortality rate (%)
7.	Final recommendation for micro level situation	Rearing of Kadaknath with Multienzyme mixture (Multistar & Vanvit-H) @ 1 tsp full per 10 birds/day with 30-50 gm of feed per bird performs well at back yard condition
8.	Constraints identified and feedback for research	Monitoring is difficult at field level,
9.	Process of farmers participation and their reaction	There is more growth in vanaraja than kadaknath. Vanaraja is fast grower. The stress bearing and diseases resistance capacity of kadaknath is better than desi and Vanaraja bird

*Thematic area:* Livestock production

*Problem definition:* Low body weight, low egg laying capacity, High mortality rate

*Technology assessed:* Assessment of different breeds of chicken in backyard condition

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost cultivation of (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Avg. Body weight gain (g/week)	Annual Egg Production (no.)	Mortality rate (%)						
FP- Rearing of indigenous chicken with 30-50 gm of feed per bird.	7	FP-28.7	FP-76	FP-15		-	FP-575	FP-1260	FP-685	FP-2.19
TO 1: Rearing of Vanaraja with multi enzyme mixture (Multistar & Vanvit-H) @ 1 tsp full per 10 birds/day with 30-50 gm of feed per bird.		TO1-47.18	TO1-165	TO1-9			TO1-720	TO1-1835	TO1-1115	TO1-2.54
TO2: Rearing of Kadaknath with Multienzyme mixture (Multistar & Vanvit-H) @ 1 tsp full per 10 birds/day with 30-50 gm of feed per bird		TO2-42.84	TO2-144	TO2-4			TO2-820	TO2-2240	TO2-1420	TO2-2.73



## 3.2 Achievements of Frontline Demonstrations

## A. Details of FLDs conducted during the year

## Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Rice	Integrated weed management	Application of granular formulation of Bensulfuron methyl 0.6% + Pretilachlor 6% at 3 DAT provides effective solution for weed control in rice by inhibiting the growth of the most important perennial, annual species of weeds and provides easy of application by hand dispersal in rice fields.	0.52	0.52	1		2		7	3	10	3	13	
2.	Rice	Nutrient Management	Use of NRRI developed LCC for real time N management in rice	0.52	0.52	1		3		7	2	11	2	13	
3.	Maize	Varietal Evaluation	Sweet corn ( <i>Sugar-75</i> ) is Suitable for rabi, season duration 80-85 days in rabi, yield – 66000 cobs/ha	0.52	0.52	1		2		7	3	10	3	13	
4.	Finger millet	Integrated nutrient management	Application of 40:20:20:: N:P:K kg/ha. based on STBF with Azotobacter @ 2 kg/ha + Azospirillum @ 2kg/ha. + PSB @ 2kg/ha. Incubated with 25 kg vermicompost.	0.52	0.52	1		2		9	1	12	1	13	
5.	Sunflower	Integrated nutrient Management	STBF+ sulphur @ 25 kg/ha + foliar application of Boron @ 1 kg/ha at the time of flower initiation.	0.52	0.52	1		2		7	3	10	3	13	
6.	Green Gram	Nutrient Management	Seed treatment with Rhizobium (25g/kg seed) & Sodium Molybdate @ 0.4g/kg seed during sowing	0.52	0.52	1		3		7	2	11	2	13	

			time												
7.	Rice	IPM	Skip row planting (after 3 m), installation of spider trap @ 25/ ha. eed based alternate spraying (based on ETL ) of thiomethoxam @ 200g/ ha and buprofezin @ 750 ml/ ha with tank mix of neem oil Skip row planting (after 3 m), installation of spider trap @ 25/ ha. Need based alternate spraying (based on ETL ) of Flonicamid 175 g/ ha with tank mix of neem oil	1.0	1.0	1	0	0	0	9	0	1 0	0	1 0	
8.	Rice	IDM	Spraying with Carbendazim @400gm/acre, Propiconazole @300ml/acre, Seed treatment with Vitavax Power @3gm/Kg, Spraying with Nativo(Tebuconazole+Trifloxystobin)@200g m/ha	1.0	1.0	2	0	0	0	8	0	1 0	0	1 0	
9.	Groundnut	IDM	Seed treatment with carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/ kg seeds during sowing and need base alternative spraying of chlorothalonil 75% wp (Kavach) @ 1.5 gm/lt. and carbendazim 2 gm/lt at 15 days interval.	1.0	1.0	4	0	0	0	6	0	1 0	0	1 0	
10.	Greengram	IDM	Soil Treatment with T. viridae @ 5kg/ha with 60kg FYM, T-2: Seed treatment with Vitavax Power @ 2g/kg seed, roguing of the infected plants and soil drenching with vitavax power@ 2g/lt at that spot and adjoining spots.	1.0	1.0	2	0	0	0	8	0	1 0	0	1 0	
11.	Brinjal	Varietal Evaluation	Seed rate-200 g/ha, FYM application @ 5 t/ ha., Soil test based fertilizer application. Large oval fruits with deep purple shining skin. Calyx green, thick and fleshy. Average fruit weight 450gm. Resistant variety and Free from bitter principles with very good cooking qualities. Duration 150-160 days.	0.4	0.4	-	-	2	-	1 1	-	1 3	-	1 3	
12.	Sweet Potato	Varietal Evaluation	High Yielding sweet potato var. Kanchan is Dark Orange flesh, Cream colour tubers skin, rich in vitamin-A, Tuber cylindrical,	0.4	0.4	5	-	-	-	7	-	1 3	-	1 3	

			potential yield 270 q/ha, 180-190 days												
13.	Mango	Nutrient Management	Drenching of Paclbutrazol @ 15 ml/ 10 lit. of water in the root zone per plant ( 7-15 year old orchard) , 3 ft away from trunk in the month of September	0.4	0.4	2		3		8		13		13	
14.	Banana	Nutrient Management	Application of Fym-10-15 kg, 300-100-300 gm NPK per pit, N at 2,4,6 months P at planting and K at 2,6 months after planting	0.4	0.4	-	-	-	-	13	-	13		13	
15.	Poultry	Production Management	Demonstration on quail farming for profitable egg and meat production	0.4	0.4	-	-	2	-	11	-	13	-	13	
16.	Sheep and goat	Production Duckery Management	Demonstration of health management in goat for enhanced meat production	0.4	0.4	5	-	-	-	7	-	13	-	13	
17.	Duck	Production Management	Demonstration on duck (White Pekin) farming for profitable egg and meat production	0.4	0.4	2		3		8		13		13	
18.	Fodder cultivation		Demonstration on round the year Fodder cultivation	0.4	0.4	-	-	-	-	13	-	13		13	

#### Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O					
Rice	Kharif	Irrigated medium land	Alluvial	338.57	34.17	362.21	-	15.07.2018	02.11.2018	1756.5	46
Rice	Kharif	Irrigated medium land	Alluvial	348.56	37.12	352.11	Green gram	21.06.2018	30.10.2018	1812.6	50
Maize	Rabi	Irrigated medium land	Black	338.86	34.15	342.15	Rice	02.11.2018	16.03.2019	182	08
Finger millet	Kharif	Irrigated medium land	Alluvial	418.72	30.14	362.21	Finger millet	25.06.2018	04.10.2018	1700.6	46

Sunflower	Rabi	Irrigated medium land	Alluvial	452.59	34.16	372.67	Rice	07.11.2018	17.03.2019	172	07
Green Gram	Rabi	Rainfed medium land	Alluvial	341.56	31.12	298.25	Rice	05.11.2018	12.02.2019	102	05
Rice	Kharif	Irrigated	Clay loam	338.57	34.17	362.21	Rice	22.07.18	16.11.18	1325	42
Rice	Kharif	Irrigated	Clay loam	338.57	34.17	362.21	Rice	18.07.18	25.11.18	1340	41
Groundnut	Rabi	Irrigated	Sandy loom	341.56	31.12	298.25	Rice	28.11.18	26.01.19	170	5
Greengram	Rabi	Irrigated	Clay loom	341.56	31.12	298.25	Rice	5.12.18	22.02.19	97	4
Brinjal	Kharif	RF	Loamy soil	443.12	37	342	Chilli	22.06.2018	12.10.2018	1128.1	52
Sweet potato	Kharif	RF	Loamy soil	338.56	34	362	Brinjal	28.05.2018	25.01.2019	1256.4	56
Mango	Rabi	Irrigated	Loamy soil	364.54	28	228	Mango	-	22.05.2019	1256.4	56
Banana	Rabi	Irrigated	Loamy soil	390.92	35	369	Banana	15.06.2018	22.12.2018	1256.4	56

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

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Groundnut	IDM	Seed treatment with carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/ kg seeds during sowing and need base alternative spraying of chlorothalonil 75% wp (Kavach) @ 1.5 gm/lt. and carbendazim 2 gm/lt at 15 days interval	10	1.0	16.5	11.4	30.9	35000	90750	55750	2.6	29000	62700	33700	2.1

Sunflower	Integrated nutrient Management	STBF+ sulphur @ 25 kg/ha + foliar application of Boron @ 1 kg/ha at the time of flower initiation.	13	0.52	14.74	10.27	43.52	23800	88440	64640	3.72	19750	61620	41870	3.12
Total															

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

\*\* BCR= GROSS RETURN/GROSS COST

#### Pulses

##### Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Greengram	IDM	Soil Treatment with T. viridae @ 5kg/ha with 60kg FYM, T-2: Seed treatment with Vitavax Power @ 2g/kg seed, rogueing of the infected plants and soil drenching with vitavax power@ 2g/ltr at that spot and adjoining spots.	10	1.0	7.8	5.6	28.2	17000	42900	25900	2.5	15000	30800	15800	2.0
Green Gram	Nutrient Management	Seed treatment with Rhizobium (25g/kg seed) & Sodium Molybdate @ 0.4g/kg seed during sowing time	13	0.52	7.5	5.6	33.93	14500	41250	26750	2.84	13000	30800	17800	2.37
Total															

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

\*\* BCR= GROSS RETURN/GROSS COST

## Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	**BCR	Gross Cost	Gross Return	Net Return	**BCR
Rice	Integrated weed management	Application of granular formulation of Bensulfuron methyl 0.6% + Pretilachlor 6% at 3 DAT provides effective solution for weed control in rice by inhibiting the growth of the most important perennial, annual species of weeds and provides easy of application by hand dispersal in rice fields.	13	0.52	39.5	34.5	14.49	No of effective tiller/hill - 16.57  Panicle length- 18.08	No of effective tiller/hill - 13.87  Panicle length- 15.56	27200	51750	24550	1.90	27200	59250	32050	2.18

Rice	Nutrient Management	Use of NRRI developed LCC for real time N management in rice	13	0.52	35.65	28.75	24.00	No of effective tiller/hill - 12.56 Panicle length- 18.56	No of effective tiller/hill - 9.21 Panicle length- 15.98	27200	53475	26275	1.97	27200	43125	15925	1.59
Maize	Varietal Evaluation	Sweet corn ( <i>Sugar-75</i> ) is Suitable for rabi, season duration 80-85 days in rabi, yield – 66000 cobs/ha	13	0.52	134.8	115.3	16.91	No of cobs/plant - 1.73 Cob Length(cm.) - 15.7 Cob weight (Without husk)(g)- 238.67	No of cobs/plant - 1.12 Cob Length(cm.) - 13.10 Cob weight (Without husk)(g)- 130.60	50700	202290	151500	3.99	30500	92240	61740	3.02
Finger millet	Integrated nutrient management	Application of 40:20:20:: N:P:K kg/ha. based on STBF with Azatobacter @ 2 kg/ha + Azospirillum @ 2kg/ha. + PSB @ 2kg/ha. Incubated with 25 kg vermicompost.	13	0.52	14.11	9.14	62.36	No of effective tiller/hill- 4.67 No of fingers /hill- 5.65 Finger Size(cm.)- 8.83	No of effective tiller/hill- 2.32 No of fingers /hill- 2.31 Finger Size(cm.)- 4.21	14200	44520	30320	3.14	11500	27420	15920	2.38

Rice	IPM	Skip row planting (after 3 m), installation of spider trap @ 25/ ha. eed based alternate spraying (based on ETL ) of thiomethoxam @ 200g/ ha and buprofezin @ 750 ml/ ha with tank mix of neem oil Skip row planting (after 3 m), installation of spider trap @ 25/ ha. Need based alternate spraying (based on ETL ) of Flonicamid 175 g/ ha with tank mix of neem oil	10	1.0	42.8	35.5	17.0	7	19	32000	74900	42900	2.3	3000 0	62125	32125	2.0
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Rice	IDM	Spraying with Carbendazim @ 400gm/acre, propocinazole @300ml/acre with Vitavax Power @3gm/Kg, Spraying with Nativo (Tebuconazole + Trifloxystobin) @ 200gm/acre	10	1.0	43.4	35.5	18.2	7	27	32800	75950	43150	2.3	31000	62125	31125	1.97
Sweet potato	Varietal evaluation	Demonstration on High yielding variety Sweet Potato <i>Kanchan</i>	13	0.4	212	158	39.24	Fruit wt.- 140 g No. of tuber/plant 8	Fruit wt.- 78 g No. of tuber/plant 12	89000	198000	109000	2.2	75000	142200	67200	1.8
Brinjal	Varietal evaluation	Demonstration of Brinjal variety <i>Arka Navneeth</i>	13	0.4	395	252.5	56.43	Fruit wt.- 182 g No. of fruit/plant 24	Fruit wt.- 83 g No. of fruit/plant 43	105000	335750	230750	3.1	87000	214200	127200	2.4
Banana	Nutrient Management	Demonstration on micro-nutrient management in tissue culture banana	13	0.4	380	258	47.28	Bunch wt.- 32 Kg Finger Size- 29.2 cm	Bunch wt.- 25 Kg Finger Size- 22.6 cm	135000	456000	321000	3.3	98000	309600	211600	3.1

Mango	Nutrient Management	Demonstration on Paclobutrazol application for inducing regular bearing habit in mango	13	0.4	245	160	53.12	Time of flowering- 2 <sup>nd</sup> week of December	--	115000	367500	252500	3.1	75000	180000	105000	2.4
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## Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	**BCR	Gross Cost	Gross Return	Net Return	**BCR
Dairy																	
Cow																	
Buffalo																	
Poultry	Production	Demonstration on quail farming for profitable egg and meat production	10	50 nos.	29.12 Avg. Body weight gain (g/week)	28.35 Avg. Body weight gain (g/week)	5.31	280 Annual Egg Production (no.)	90 Annual Egg Production (no.)	2800	6000	3200	2.14	2500	5400	2900	1.86
Rabbitry																	
Pigerry																	
Sheep and goat	Production	Demonstration of health management in goat for enhanced meat production	10	50 nos.	385 Avg. Body weight gain (g/wk)	266 Avg. Body weight gain (g/wk)	44	11 Infection rate (%)	23 Infection rate (%)	1900	6280	4380	3.30	1235	3385	2150	2.74

Duckery	Production	Demonstration on duck (White Pekin) farming for profitable egg and meat production	10	50 no.	45.78 Avg. Body weight gain (g/week)	37.03 Avg. Body weight gain (g/week)	17.54	190 Annual Egg Production (no.)	140 Annual Egg Production (no.)	595	1435	840	3.15	440	980	540	2.8
Others (pl.specify)	Production	Demonstration on round the year Fodder cultivation	10	1 ha	5.45 L/day milk production	4.15 L/day milk production	31.32	474.6 g/wk body wt gain	367.5 g/wk body wt gain	5200	13500	8300	2.59	4100	8300	4200	2.05
Total																	

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

\*\* BCR= GROSS RETURN/GROSS COST

#### Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Ornamental fishes																	
Others (pl.specify)																	
Total																	

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

\*\* BCR= GROSS RETURN/GROSS COST

#### Other enterprises

Category	Name of the technology	No. of Farmer	No. of units	Major parameters	% change in major	Other parameter	*Economics of demonstration (Rs.) or Rs./unit	*Economics of check (Rs.) or Rs./unit
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	demonstrated			Demonstration	Check	parameter	Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Enterprise development															
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																
Total																

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

\*\* BCR= GROSS RETURN/GROSS COST

#### Women empowerment

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

#### Farm implements and machinery

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

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

\*\* BCR= GROSS RETURN/GROSS COST





## Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1.	Rice	Farmers are aware about application of proper pesticides in proper time with application of balance dose of nitrogenous fertilizer in split application and other agronomical practices effectively management the BPH & WBPH population in rice crop and farmers are convinced to follow the practices.
2.	Rice	Farmers are convinced that seed treatment with vitavax power with alternative spraying with carbendazin and combine fungicide Nativo(Tebuconazole+Trifloxystobin)@200gm/ha effectively manage the sheath blight disease in rice with cost effective and also increase in productivity.
3.	Groundnut	Farmers are convinced that seed treatment with carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/ kg seeds during sowing and need base alternative spraying of chlorothalonil 75% wp (Kavach) @ 1.5 gm/lit can effectively manage the collar rot disease in groundnut crop where as production was also increased by 30.9 % with a B:C of 3.3
4.	Greengram	Farmers are aware about soil application of bio fungicide T. viridae @ 5kg/ha with 60kg FYM, Seed treatment with Vitavax Power @ 2g/kg seed and soil drenching with vitavax power@ 2g/lit at that spot and adjoining spots can effectively and economically manage the seed & seedling blight in greengram crop and also increased in productivity effeiciently.
5.	Sweet Potato	Sweet potato variety kanchan highly suitable for size, colour and taste
6.	Brinjal	Farmers prefer medium long dark purple colour brinjal variety
7.	Mango	Irregular bearer mango varieties came to bearing
8.	Banana	Size and appearance of Banana fingers are more and attractive in colour

## Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	05.11.18 17.11.18 08.01.19 30.01.19	04	200	Farmers are educated about application of proper pesticides, fungicides, bio fungicides, seed treatment method and cultural practices followed by fertilizer management schedule for less attack of pest & diseases in cereals, oil seed and pulse crops.
2.	Farmers Training	05.09.18 18.09.18 11.10.18,	03	75	Farmers are convinced on proper management schedule of pest & disease in cereals oil seed and pulses
3.	Media coverage	--	--	--	--
4.	Training for extension functionaries	14.02.19 to 15.02.19 16.02.19 to 17.02.19	02	20	Extension functionaries are aware about use of suitable new molecules of pesticides & fungicides application. Safety measures and precautions for application of pesticides & fungicides.
5.	Field days	--			
6.	Farmers Training	21.06.2018 (Sweet potato) 23.09.2018(Brinjal) 27.11.2018(Banana)			Farmers are educated about application of proper Planting method , seed treatment , Nutrient management and cultural practices of vegetables and fruit crops.
7.	Media coverage	--			
8.	Training for extension functionaries	--			

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

**A. Technical Parameters:**

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1.	Pigeon pea	PRG-176	11.5	10.08	4.45	25.0	PRG-176  Line sowing of seed with spacing 75cmx60cm  Seed inoculation with Rhizobium culture (20gm per kg of seeds)  Application of Post emergence herbicide Glyphosate 41%SL @ 2.5lit per ha followed by two hand weeding after 25 DAS & 45 DAS to control weed population.  Application of Delta+Triazophous @1lit/ha to control Aphid/Thrip population.  Spraying of Azadirachtin 0.3%@ 2.5 Lit./ ha and Emamectin Benzoate 5%SC @ 4gml /10lit to control pod borer infestation.  Spraying of micronutrient (planteid) 4ml/15lit of water at pre-flowering stage  Installation of Pheromone trap @12 per ha for mass trapping of male pod borer	63	50	16.7	11.8	13.4	3.32	8.95	-11.6



						during flowering stage. Installation of yellow sticky trap @50per ha to control the infestation of sucking pest.													
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### B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1.	PRG-176	19750	40250	20500	2.03	21500	46900	25400	2.18

### C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Pigeon pea , PRG-176	1340	50	35	90	1250	for next season farming and house expenses	90

### D. Pulses Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	PRG-176	Yes, the variety and IPM technology is perfectly suitable to the farming system	Due to its potential yield, more no of pod per plant than the locally available cultivars. That's why this variety is liked by the farmers	It is low water intake plant and cost of cultivation is very much marginal.	No such cases has been recorded	Yes, the technology and variety is acceptable by the villagers/beneficiaries	--

**E. Specific Characteristics of Technology and Performance**

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
High yielding variety (q/ha)	13.4	11.5	Pigeon pea PRG-176 is liked by the farmers due to its higher productivity, vigorous crop growth, more no of pod per plant and moreover this HYV is tolerant to fusarium wilt.
Avg. No.of Pod/Plant	228	177	
100seed weight (gm)	9.87	8.27	

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

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training cum critical input distribution to the beneficiaries	11.06.18, Jilingudar, Junagarh	20
2.	Scientist visit to farmers field to monitor the crop condition	21.07.2018, Boria, Kesinga , Mundighati, Lanjijarh	70
		29.07.2018, Nagupala, Kesinga, Mundighati, Lanjigarh	30
		02.08.2018, & 18.08.2018 Boria, Kesinga, Kathajanipadar, Lanjigarh	50
3.	Scientist visit to farmers field to collect biometric observation	21.08.2019, Boria, Belgaon, Bhawanipatna	40
		01.09.2018, Kesinga , Boria , Nagupala	35
		05.09.2018, Mundighati, Lanjigarh	20
		29.10.2018, Belgaon, Bhawanipatna, Jilingudar, Junagarh	30
4.	Scientist visit to farmers field to collect yield related data	15.11.2018, Jilingudar, Belgaon	20
		12.12.2018, Nagupala, Kesinga, Mundighati, Lanjigarh	30
		26.12.2018, Belgaon , Bhawanipatna	20
		28.12.2018, Boria, Kesinga	25
		04.01.2019, Nagupalla, Chicharla, Boria	30
5.	Field day and farmers feed back	25.03.2019, Boria, Kesinga	100

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

Crop (provide crop wise information )	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Pigeonpea	i) Critical input	--	3,57,383	<b>61,435.05/-</b> (Unspent balance)
	ii) TA/DA/POL etc. for monitoring	--	18,381.95	
	iii) Extension Activities (Field day)	--	7,800	
	iv) Publication of literature/contingency	--	5,000	
	<b>Total</b>	<b>Rs.4,50,000/-</b>	<b>3,88,564.95</b>	<b>61,435.05/-</b>

## A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1.	Blackgram	T-9	6.2	6.0	5.0	15.0	Line sowing of seed 25x10cm (40 plants/m <sup>2</sup> ) Seed Treatment with Thiomethoxam 75 WG @ 5 gm / Kg seed to protect from sucking pests. Seed treatment with appropriate Rhizobium culture (bacteria culture) @20 grams of culture per 1kg of seed before sowing greatly helps in germination Application of imazethapyr as post-emergence spray in pre-rabi black gram to control weed infestation Application of Azadirachtin @0.15% @5ml/lit to control jassid	25	20	7.2	6.4	6.8	13.33	36	-120.5



1.	Blackgram PU-31	680	40	70	60	100	for next season farming and house expenses	28
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#### D. Pulses Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	PU-31	Yes, the IPM technology and variety is perfectly suitable to the farming system	Weed management and control of YVMV in Blackgram	The variety and technical intervention is completely affordable by the farmers.	No such cases has been recorded	Yes, the technology and variety is acceptable by the villagers/beneficiaries	--

#### E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
High yielding variety (q/ha)	6.8	6.2	Variety is perfectly suitable for pre rabi season with high yielding potential. Moderately tolerant to YVMV & Powdery mildew.
Avg. No.of Pod/Plant	33	26	
Pod length (cm)	4.6	4.4	
1000seed weight (gm)	44	37	

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

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training cum critical input distribution to the beneficiaries	06.09.2018, Sikerguda, Dharabhata, Bhawanipatna	25
2.	Scientist visit to farmers field to monitor the germination status of the crop	20.09.2018, Sikerguda, Dharabhata Bhawanipatna	25
3.	Visit to farmers field to monitor the crop condition	26.09.2018, Sikerguda, Dharabhata Bhawanipatna	25
4.	To monitor the vegetative growth of the crop and distribution of critical inputs	05.10.2018, Sikerguda, Dharabhata Bhawanipatna	25
5.	Field supervision and inspection of insect pest incidence	20.10.2018, Sikerguda, Dharabhata Bhawanipatna	25
6.	Visit to farmers field to collect biometric observations	29.10.2018, Sikerguda, Dharabhata Bhawanipatna	25
7.	Monitor the crop condition and farmer feedback on crop growth	05.11.2018, Sikerguda, Dharabhata Bhawanipatna	25
8.	Field visit to monitor pod development stage and incidence of pest and diseases.	12.11.2018, Sikerguda, Dharabhata Bhawanipatna	25
9.	Field visit to monitor pod maturity and harvesting stage	03.12.2018, Sikerguda, Dharabhata Bhawanipatna	25
10.	Field visit to monitor harvesting stage and collection of yield related data	17.12.2018, Sikerguda, Dharabhata Bhawanipatna	25

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

H. Farmers' training photographs

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

**J. Details of budget utilization**

Crop (provide crop wise information )	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Blackgram	i) Critical input	--	1,38,570	Rs.26,630/- (Unspent balance)
	ii) TA/DA/POL etc. for monitoring	--	3,000	
	iii) Extension Activities (Field day)	--	4,800	
	iv) Publication of literature	--	7,000	
	<b>Total</b>	<b>1,80,000/-</b>	<b>1,53,370</b>	<b>Rs.26,630/-</b>

**A. Technical Parameters:**

Sl. No.	Crop demonstrated	Existin g (Farmer's variety name	Existi ng yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Num ber of farmer s	Ar ea in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				Distr ict yield (D)	Sta te yel d (S)	Potent ial yield (P)				Ma x.	Mi n.	A v.	D	S	P
1.	Green gram	Kalam uga	5.7	7.1	4.6	10-12	Seed treatment with appropriate Rhizobium & PSB culture (bacteria culture) @20 grams of culture per 1kg of seed before sowing greatly helps in germination. Application of imazethapyr 10% SL (post- emergence) to control weed infestation Installation of yellow sticky trap @50 no/ha for monitoring and management of Whitefly. Spraying of Carbendazim 12 % +Mancozeb 63% WP @ 1kg/ha for management of Cercospora leaf spot and	42	30	7.6	6.2	7.3	0.2	2.7	- 2.7



to control pod borer infestation						
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### E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
No. of Pod/plant	26	21	On time Crop management practices (Weed, insect and disease management) will definitely results into higher yield
No of seed/pod	8-10	8-10	
1000seed weight (gm)	25.2	20.5	

### F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1.	Training cum critical input distribution to the beneficiaries	20.12.2018 & 10.01.2019 Titkela, Narla	55
2.	Training cum method demonstration on weedicide application	14.02.2019. Titkela, Narla	45
3.	Scientist visit to farmers field & distribution of critical inputs	18.02.2019, Titkela, Narla	50
4.	Scientist visit to farmers field to monitor crop growth	06.03.2019, 11.03.2019 & 23.03.2019, Titkela, Narla	24
5.	Celebration on field day and collection of yield data	25.03.2019, Titkela, Narla	100
6.	Scientist visit to farmers field to collect the data on yield related parameters	23.03.2019 & 08.04.2019, Titkela, Narla	50

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

### H. Farmers' training photographs

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

### J. Details of budget utilization

Crop (provide crop wise information )	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input	--	1,13,136	Rs.1,38,409/- (Unspent Balance)
	ii) TA/DA/POL etc. for monitoring	--	7,955	
	iii) Extension Activities (Field day)	--	7,500	
	iv)Publication of literature	--	3,000	
	<b>Total</b>	<b>2,70,000/-</b>	<b>1,31,591</b>	<b>Rs.1,38,409/-</b>



**A. Technical Parameters:**

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Avg.	D	S	P
1.	Groundnut	TAG 24	12.6	13.1	14.5	17	Groundnut (ICGV91114) Application Gypsum 250kg/ha in the soil during final ploughing Line sowing of seeds (30cmx15cm) Seed treatment with Vitavax Power (Carboxin) @ 5 gm/kg of seed before sowing. Application of Imazethapyr @ 750 ml/ha as (20-30 days after sowing based on weed density ) as post emergence . Foliar application of Boron @1kg/ha at pre-flowering stage. To control early leaf spot spraying of Tebuconazole 25.9%	35	20	16.5	11.9	14.2	1.1	-0.3	-2.8







































Value addition													
Protected cultivation technology	2	9	5		1			5			15	5	20
Formation and Management of SHGs													
Group Dynamics and farmers organization	2	19	0	19	1	0	1	0	0	0	20	0	20
Information networking among farmers	2	13	3	16	2	0	2	1	1	2	16	4	20
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													

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Crop Production	F/FW	Seed priming methods and its importance in regulating uniform plant population and better yield	1	Off	12	13	25	7	6	13
Crop Production	F/FW	Farm implement and seed drill use for better crop yield	1	Off	16	9	25	0	0	0
Crop Production	F/FW	Storage desiccant and its impact on pulse crops	1	Off	4	21	25	0	3	3
Crop Production	F/FW	Seed sowing fertilizer and	1	Off	10	15	25	8	12	20

		nutrient management in Arhar and its economic importance								
Crop Production	F/FW	Intercropping system with rice and maize based cropping system	1	Off	15	10	25	7	5	12
Crop Production	F/FW	Integrated nutrient management approach for medium land paddy	1	Off	15	10	25	3	1	4
Crop Production	F/FW	Micronutrient application for better production in greengram	1	Off	11	14	25	1	14	15
Crop Production		Package of practices of Sesame	1	Off	23	3	25	2	0	2
Plant Protection	F/FW	IPM for BPH & WBPH management in rice	1	Off	6	3	25	11	5	16
Plant Protection	F/FW	Integrated management of blast disease in kharif rice	1	Off	5	4	25	10	6	16
Plant Protection	F/FW	Management of sucking pests in chilli	1	Off	4	4	25	12	5	17
Plant Protection	F/FW	Integrated management of pod borer in pigeonpea	1	Off	5	1	25	13	6	19
Plant Protection	F/FW	Sheath blight disease management in rice	1	Off	4	2	25	11	7	19
Plant Protection	F/FW	Integrated management of blast disease in kharif rice	1	Off	3	2	25	14	6	20
Plant Protection	F/FW	Suitable management strategies for seedling blight disease in greengram crop	1	Off	5	0	25	13	7	20
Horticulture	F & FW	Polymulching	1	Off	25	-	25	11	-	11

		in Tomato		Campus						
Horticulture	F & FW	Off seasonal vegetable production in polyhouse	1	Off Campus	24	1	25	4	-	4
Horticulture	F & FW	Intercropping of vegetable in mango orchard	1	Off Campus	-	25	25	-	5	5
Horticulture	F & FW	Intercultural practices in Brinjal	1	Off Campus	16	9	25	5	2	7
Horticulture	F & FW	Micronutrient application in Cauliflower	1	Off Campus	18	7	25	16	5	21

H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed elsewhere
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Vermi compost	Organic inputs	Preparation of vermicomposting	1	15	0	15	Small scale	2	2	--
Organic inputs	Organic inputs	Preparation of organic bio products	1	15	0	15	Small scale	2	2	--
Rice	IPM	Management of BPH & WBPH in rice	02	15	-	15	-	-	-	-
Mango	IPM	Integrated management of fruit fly in mango	02	15	-	15	-	-	-	-
Drumstick	RY	Value addition of Drumstick	01	13	2	15	-	-	1	4
Agriculture waste	RY	Alternate income generation through recycling of agriculture waste	01	13	2	15	Small scale	5	5	--

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

I) Sponsored Training Programmes

S l. N o	Tit le	Them atic area	M ont h	Dura tion (days)	Cl ie nt	No. of cours es	No. of Participants										Sponsor ing Agency
							Male			Female			Total				
							Other s	SC	S T	Othe rs	SC	ST	Othe rs	SC	ST	To tal	
1.	Mu shr oo m Gro wer	Incom e genera tion	25 da ys	25	R Y	25	15	2	1	1	1	0	16	3	1	20	ASCI
2.	Sm all Pou ltry far mer	Incom e genera tion	30 da ys	30	R Y	30	16	2	0	2	0	0	18	2	0	20	ASCI

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

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	03	218	38	256	34	8	7	15	226	45	271
KisanMela	--										
KisanGhoshi	--										
Exhibition	03										
Film Show	10	548	252	800	32	7	13	20	555	265	820
Method Demonstrations	10	238	12	250	34	9	11	20	247	23	270
Farmers Seminar	0			0		4	3	7	4	3	7
Workshop	1	76	24	100	42	4	3	7	80	27	107
Group meetings	0	0	0	0		0	0	0	0	0	0
Lectures delivered as resource persons	25			0				0	0	0	0
Advisory Services				0				0	0	0	0
Scientific visit to farmers field	72	598	102	700	38	66	78	144	664	180	844
Farmers visit to KVK	560	438	122	560	20			0	438	122	560
Diagnostic visits	10	188	25	213	25	6	4	10	194	29	223
Exposure visits	0	0	0	0		0	0	0	0	0	0
Ex-trainees Sammelan	0	0	0	0		0	0	0	0	0	0
Soil health Camp	2	147	33	180	22	6	6	12	153	39	192
Animal Health Camp	1	33	17	50	76	0	0	0	33	17	50
Agri mobile clinic	0	0	0	0		0	0	0	0	0	0
Soil test campaigns	2	147	33	180	35	6	6	12	153	39	192
Farm Science Club Conveners meet	0	0	0	0		0	0	0	0	0	0
Self Help Group Conveners meetings	4	0	80	80	25	4	4	8	4	84	88
Mahila Mandals Conveners meetings	2	0	50	50	20	4	4	8	4	54	58
Celebration of	3	226	79	305	28	18	14	32	244	93	337

important days (specify)												
Sankalp Se Siddhi				0				0	0	0	0	0
Swatchta Hi Sewa	2	155	45	200	34	6	6	12	161	51	212	
Mahila Kisan Divas	1	0	55	55	10	4	3	7	4	58	62	
Any Other (Specify)												
Total	706	2946	937	3883	--	150	161	311	3096	1098	4194	

### B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	04
Radio talks	04
TV talks	02
Popular articles	02
Extension Literature	05
Other, if any	--

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

#### *Village seed*

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

#### *KVK farm*

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Paddy	MTU-1010	105.4	2,64,554	--	--	--	--
	MTU-1001	95.5	2,39,705	--	--	--	--
Grand Total		200.9	501259	--	--	--	--

#### Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
<b>Vegetable seedlings</b>							
Cauliflower	Kimaya	8000	16000/-	22	7	19	48
Cabbage	Kohinoor	5000	10000/-	17	-	28	45
Tomato	Arka Rakshak, Arka samrat	30000	30000/-	12	25	45	82

Brinjal	VNR-212	35000	35000/-	18	12	35	65
Chilli	Super Jhankar	4000	4000/-	-	19	20	39
Onion	AFLR	10000	5000/-	-	20	37	57
Others							
<b>Fruits</b>							
Mango							
Guava							
Lime							
Papaya	Red lady	300	6000/-	05	-	10	15
Banana							
Others	Capsicum and Red cabbage	7000	14000/-	20	34	54	108
Ornamental plants	Marigold Var. Ceracole	37100	37100/-	24	14	37	75
Medicinal and Aromatic							
Plantation							
Spices							
Turmeric							
Tuber							
Elephant yams							
Fodder crop saplings							
Forest Species							
Others, pl.specify	Drumstick(PKM-1)	100	1500/-	-	12	5	17
Total							

#### Production of Bio-Products

Name of product	Quantity	Value (Rs.)	No. of Farmers benefitted			
	Kg		SC	ST	Other	Total
Bio-fertilizers (Vermicomposting)	2000	20000	8	12	25	45
Bio-pesticide						
Bio-fungicide						
Bio-agents (Earthworm)	01	1000	0	2	1	3
Others, please specify. (Mushroom cultivation)	91.5	8,580	36	21	24	81
Mushroom Spawn	1955	31,280	25	21	38	84

#### Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
<b>Dairy animals</b>							
Cows							
Buffaloes							
Calves							
Others (Duck)	Khaki cambell	95	5700			25	
<b>Small ruminants</b>							
Sheep							



Goat				
Other, please specify				
Poultry	Vanaraja	733	43980	278
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Hog				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Mixed carp				
Fish fingerlings				
Spawn				
Others (Pl. specify)				
Grand Total				

### 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.Amitabh Panda, Senior Scientist & Head
Address :	KVK, Kalahandi
e-mail :	kvkalahandi.ouat@gmail.com
Phone No. : Mobile :	91-6372568845

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2018	Pigeon pea	PRG-176	560	46	63.08	C/S
	Blackgram	PU-31	200	30	27.20	C/S
Rabi 2018-19	--					
Summer/Spring 2019	--					

iii) Financial Progress

Fund received (2016-17, 2017-18 and 2018-19)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2016-17	50.00	6,85,262/-	<b>R.F:</b> 33,23,318/-	
2017-18	0	26,44,185/-	21,04,310/-	

2018-19	0	15,95,022/-	22,85,441/-	
---------	---	-------------	-------------	--

## iv) Infrastructure Development

Item	Progress
Seed processing unit	Construction of seed processing and storage structure is completed. Electrification is yet to be installed
Seed storage structure	

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

Item	Title	Author's name	Number	Circulation
Research paper	Effect of micronutrient application on plant growth attribute in blackgram (Var. Prasad)	U Pradhan, SK Mahanty, AK Padhiary, S Behera and A Jena	Journal of Pharmacognosy and Phytochemistry 2018; 7(6): 642-645	All India
	Effect of Micronutrient Application on Seed Quality Attributes of Blackgram (Var. Prasad)	U. Pradhan <sup>1*</sup> , S.K. Mahanty <sup>2</sup> , A.K. Padhiary <sup>1</sup> , S. Behera <sup>3</sup> and A. Jena <sup>1</sup>	<i>Int.J.Curr.Microbiol.App.Sci</i> (2018) 7(12): 107-116	International
Seminar/conference/ symposia papers	--			
Books	Mushroom Grower (ASCI) Small Poultry farmer(ASCI)	Dr.Amitabh Panda Dr.Madhumitajena Dr.Hrudananda Malik	52	52
Bulletins	--			
News letter	Krushi Kalika (Arp-Sept,2018)	Sr. Scientist & Head, KVK, Kalahandi	500	500
Popular Articles	Doubling Farmers' Income by 2022 : Seven-Point Strategy	R. K. Rout and S. Behera	Popular Kheti (eISSN : 2321-0001) Volume – 6, Issue – 2, April - June, 2018(192-194)	All India
	e-NAM	R. K. Rout and S. Behera	Popular Kheti (eISSN : 2321-0001) Volume – 6, Issue – 2, April - June, 2018 (211-214)	All India
	MK's in Organic Production of Solanaceae Vegetables	A. K. Padhiary, S. P. Mishra, S. Behera, A. Nandi	Popular Kheti (eISSN : 2321-0001) Volume – 6, Issue – 3, July - September, 2018 (98-99)	All India
Book Chapter				
Extension Pamphlets/ literature				
Technical reports	Annual report 2017-18 Annual Action plan 218-19 SAC proceedings	KVK, Kalahandi	--	--
Electronic Publication (CD/DVD etc)	--			
TOTAL				

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	MDP, training programme	-	Dr. Amitabh Panda, Senior Scientist & Head	04.12.2018-27.03.2018 4 <sup>th</sup> to 08 <sup>th</sup> 2019	NAARM, Hyderabad ATARI- Kolkata
2.	Orientation Training programme	--	Dr. Amitabh Panda, Senior Scientist & Head	9 <sup>th</sup> -11 <sup>th</sup> July, 2018	DEE, Bhubaneswar
3.	Skill transfer TOT programme	Mushroom Grower (ASCI)	Madhumita Jena, Scientist (Agril.Extension)	18 <sup>th</sup> to 20 <sup>th</sup> Sept, 2018 (03days)	BCKV, Kalyani
4.	Skill transfer TOT programme	Small Poultry farmer (ASCI)	Dr. Hrudananda Malik Scientist (Animal Science)	18 <sup>th</sup> to 20 <sup>th</sup> Sept, 2018 (03days)	BCKV, Kalyani
5.	Model training course	Model training course on value chain management of agriculture commodities in tribal area	Dr. Hrudananda Malik	11.12.2018 to 18.12.2018	DEE, OUAT

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

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

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

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

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

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Pulses	Application of mustard oil@ 1% (1kg of pulses) with neem leaf treatment	Stored grain pest

## 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.	Vegetable	30	385ton	50	N

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

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
1.	Group discussion	Training, FLD, OFT and other extension activities to solve the emerging issues of the villagers.
2.	Participatory rural appraisal (PRA)	
3.	Questionnaire	
4.	Checklist	
5.	Farmers meeting	
	Problem matrix & prioritization	

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

Sl. No	Name of the Equipment	Qty.
1.	Hot air oven	1
2.	Hot water bath	1
3.	Horizontal shaker	1
4.	Plant sample grinder	1
5.	Distillation unit	1
6.	BOD Incubator	1
7.	Electronic Digital Weighing Balance	3
8.	Nitrogen Auto analyzer	1
9.	Controller based VIS Spectrophotometer	1
10.	Controller based Flame Photometer	1
11.	Micro processor based pH system/meter	1
12.	Conductivity meter	1
13.	Mrida Parikhyaka	2
14.	Mechanical Stirrer	1
15.	Bouyoucos Hydrometer	1
16.	Vacuum Dessicator	1

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
412	-	412	250	8	2060/-

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1	Celebration and SHC distribution	250	01	Smt. Namitarani Sahoo, ZP President, Kalahandi	160	200

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
02	02	20000	100	15

## 3.13. Technology week celebration

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

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

No of student trained	No of days stayed
5	

ARS trainees trained	No of days stayed
NA	

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

Date	Name of the person	Purpose of visit
28 <sup>th</sup> to 30 <sup>th</sup> Sept 2018	Prof. Surendranath Pasupalak Vice –Chancellor,OUAT,Bhubaneswar	As chief guest at Kalahandi conclave

## 4. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Pulse seed production programme (Pigeon pea)	50	75	43750	90000
Demonstration on performance of Tomato Cv.Swarna Sampad	20	60	98000	260000
Cotton Pigeon pea intercropping	100	80	48000	62000
INM in Cotton	100	50	48000	65000
Stem borer management in Paddy	50	40	30000	42000
Demonstration on performance of tissue culture Banana	50	80	252000	380000

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
Line sowing in Transplanted Paddy	75%
Cotton Pigeonpea intercropping	100%
Line sowing of Pigeonpea	50%
Zinc application in paddy	50%
Cultivation of Tissue culture Banana	80%
Stem borer management in Paddy	40%

Drip irrigation in Chilli	20%
Micronutrient application in Cabbage & cauliflower	25%
Wilt management in solanaceous crops	35%
Seed treatment in cereal and pulse crop	40%
YMV management in Greengram	30%

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

#### 4.4. Details of innovations recorded by the KVK

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

#### 4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Dairy Cum Fodder Enterprise
Name & complete address of the entrepreneur	Sri Dileswar Sahu Village-Muskuti, G.P.- Muskuti, Block- Narla, Dist- Kalahandi, State- Odisha
Role of KVK with quantitative data support:	The scientists from KVK, Kalahandi visited his farm regularly to train him to take proper care and management of the cows. The dairy farm was fully equipped with modern facility and equipments. Most of the cows were belong to Red Sindhi and mix Jersey breeds. The cows were healthy, productive and disease free. The sheds were made up of concrete with tail to tail orientation type. There was proper ventilation system with sufficient flow of fresh air and light inside the shed. He was guided to feed the animal with proper nutrient feeds and provide sufficient amount of clean drinking water. He regularly followed proper deworming schedule and vaccinate the animals against hemorrhagic septicemia, black quarter, foot and mouth infections by the help of scientist from KVK, Kalahandi
Timeline of the entrepreneurship development	In 2015, he started to cultivate fodder crops (Hybrid napier and Maize) over 1 acre of land vicinity to his dairy farm by the assistance of KVK, kalahandi. High yielding Bajra Napier hybrids (IGFRI-7) were recommended to plant with a spacing of 60 X 60 cm in fertile part of his land and maize grass was recommended for moderately fertile land. He was guided about dose and timely fertilizer application and inter-cultivation aspects. Technical know-how on cutting management to ensure green fodder throughout the year was given. First cutting was taken by him after 70 days of planting and scheduled the subsequent cuttings in such a way that every six line of fodder crop must come for harvest in 45-50 days. On an average he obtained 0.75-1 q green fodder every day to feed his 15 high yielding animals. In 2016, convinced by the benefits of growing high yielding fodder crops and to reduce his expenditure on dry fodder, he expanded the area under these improved fodder crops to 1.5 acres. With this he is now able to harvest on an average 1.5-2 q green fodder daily. He started to expand his dairy with another 10 high yielding cows and gradually increased herd size. He has constructed animal shed in around 4000 sq.ft area to accommodate 40 animals
Technical Components of the Enterprise	Total milk production from his dairy farm is around 130 liters daily. The Red Sindhi cow produces about 6-8 liters daily. Most of the milk was

	supplied to OMFED and surplus milk was stored in chilling plant situated in his village.
Status of entrepreneur before and after the enterprise	The gross income from his dairy farm including selling of cheese is an average Rs. 3500 to 4000 per month which was previously Rs. 1000 to 2000 per day. He is assisted in the dairy farm by three workers.  The stored milk was further processed to cheese which were sold in local market. "I am now getting 130 liters of milk a day which is sold at the rate of Rs. 30/liter" says Dileswar proudly. "His expenditure on feed concentrate has gone down considerably after he started feeding green fodder". He claims that 20-25% of extra milk yield is solely due to use of green fodder. "Due to availability of green fodder round the year he is planning to further increase his herd size" he adds
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Annual Income-8,00,000/-
Horizontal spread of enterprise	--

4.6. Any other initiative taken by the KVK

## 5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Deptt. Of Agriculture Agriculture Technology Management Agency (ATMA)	Organizing farmer- scientist interaction (2 nos) one in Kharfi and one in Rabi season. Diagnostic field visit and extension activities (Akhaya Trutiya, Environment day Celebration, Jai Kissan Jai Vigyan, World Food Day, Women in Agriculture Day), awareness campaign are conducted in a collaborative mode
Bringing Green Revolution in Eastern India (BGREI)	Technological backstopping & guidance to the farmers (Paddy cultivation) and monitoring the activities under BGERI Blocks of the District
National Horticulture Mission	Monitoring (inspection field visit) the activities of NHM and capacity building of stakeholders on scientific cultivation of fruits and vegetables.
Leading NGOs of the district	Capacity building of the farmers through training programme, exposure visit to KVK and demonstrations are conducted in a collaborative mode.
Watershed Mission, Kalahandi	Conducted workshop cum awareness training on Gender friendly drudgery reducing small farm tools in paddy based farming system for Women Self help groups of watershed areas.

5.2. List of special programmes undertaken during 2018-19 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies (**information of previous years should not be provided**)

a) Programmes for infrastructure development

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

(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.)

NA				
----	--	--	--	--

## 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Poly house	2010-11	600	Tomato- A. Samrat, A. Rakshak Brinjal- VNR- 212 Cabbage- Kohinoor Capsicum- Kimaya	Vegetable seedling	149500	16880	158600	--

### 6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	21.06.2018	10.12.2018	4	MTU-1010	FS	105.4	220000	264554	
	28.06.2018	21.12.2018	4	MTU-1001	FS	95.5	225000	239705	

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

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicomposting	2000	14500	20000	
2.	Earthworm (E.foetida)	1	--	1000	
3.	Mushroom production	91.5	6000	8,580	
4.	Mushroom spawn	1955	19000	31,280	

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Chicken	Vanaraja	21 days old bird	730 nos.	26790	43800	
2.	Duck	Khaki cambell	21 days old duck	95 nos	3500	5700	
3.							

### 6.5. Utilization of hostel facilities

Accommodation available (No. of beds) :25

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)



October	13	2	
October	13	2	
November	15	2	
November	3	2	
February to March	20	30	
February to March	20	25	
Total :	84	63	

(For whole of the year)

#### 6.6. Utilization of staff quarters

Whether staff quarters has been completed: only two quarters are there under KVK

No. of staff quarters: 2nos. ( Senior Scientist & Head & Driver)

Date of completion: 24.10.2016

Occupancy details: 2nos. occupied

Months	Q I	Q II	Q III	Q IV	Q V	Q VI

### 7. FINANCIAL PERFORMANCE

#### 7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK Contingency	State Bank of India	Bhawanipatna, Kalahandi	11083460368
Revolving Fund	State Bank of India	Bhawanipatna, Kalahandi	31944687691
Seedhub	State Bank of India	Bhawanipatna, Kalahandi	36073617171

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2013
	Kharif	Rabi	Kharif	Rabi	
Groundnut		2.40000		1.66461	0.73539

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2013
	Kharif	Rabi	Kharif	Rabi	
Pigeonpea+Blackgram+Greengram		9.0		6.73776.15	2.26223.85

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

Sl. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	Pay & Allowances	90,50,000/-		
2	Traveling allowances	70,000/-	70,000/-	70,000/-
3	Contingencies			
A	Stationary Telephone, Postage & other exp. On office running publication of newsletters	3,60,00	3,60,00	3,60,00

B	POL, repair vehicles, tractor & equipments	0/-	0/-	0/-
C	Training of farmers (Meals, Refreshment for trainees)			
D	Training materials (need based materials and equipment for conducting the training)			
E	Training of Extension functionaries	2,70,00	2,70,00	2,70,00
F	Training Rural Youth	0/-	0/-	0/-
G	Frontline Demonstration	1,80,00	1,80,00	1,80,00
		0/-	0/-	0/-
H	On farm testing (on need based location specific and newly generated information of the major production system of the area)	90,000/-	90,000/-	90,000/-
		-	-	-
I	Soil & Water testing & issue of Soil Health cards			
J	SCSP	2,00,00	2,00,00	2,00,00
		0/-	0/-	0/-
TOTAL (A)		11,70,00	11,70,00	11,70,00
B. Non-Recurring Contingencies				
1				
2				
3				
4				
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		11,70,00	11,70,00	11,70,00
		00/-	00/-	00/-

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

Year	Opening balance as on 1 <sup>st</sup> 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	84,154/-	6,95,473/-	4,80,632/-	2,98,995/-
2016-17	3,53,569/-	8,39,629/-	4,80,667/-	7,12,531/-
2017-18	00	5,83,432/-	4,56,535/-	1,26,897/-
2018-19	1,75,734/-	21,92,449/-	6,68,020.65	17,00,162.35

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

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

Name of activity	Number of activity	Season	With line department	With ATMA	With both
E-pest surveillance training	02	Kharif & Rabi	DDA, Bhawanipatna		
NFSM-Field visit and Celebration of Field day	10	Kharif, Rabi & Summer	DDA, Bhawanipatna		
QPM verification	04	Rabi	DDH, Bhawanipatna		
Farmers training programme	10	Kharif, Rabi & Summer		ATMA	
Field visit and Celebration of	10	Kharif, Rabi & Summer		ATMA	

Field day				
BGREI	10	Kharif & Rabi	DDA, Bhawanipatna	
Diagnostic field visit	10	Kharif, Rabi & Summer		Both

## 8. Other information

## 8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)
Blast disease	Rice	1 <sup>st</sup> week of September	27000	12	Seed and nursery treatment and prophylactic spray
Sheath blight	Rice	Last week of August	26000	11	Nursery bed treatment and prophylactic spray
Collar rot disease	Groundnut	1 <sup>st</sup> week of January	2600	13	Seed treatment with prophylactic application of fungicide
Seed and seedling blight	Greengram	2 <sup>nd</sup> week of December	35000	18	Seed treatment with prophylactic application of fungicide
Fusarium wilting	Pigeonpea	1 <sup>st</sup> week of January	8000	15	prophylactic application of fungicide
Powdery mildew	Blackgram	2 <sup>nd</sup> week of September	9000	17	Seed treatment with prophylactic application of fungicide

## 8.2. Prevalent diseases in Livestock/Fishery

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

## 9.1. Nehru Yuva Kendra (NYK) Training

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

## 9.2. PPV &amp; FR Sensitization training Programme

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

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

Type of message	No. of messages	No. of farmers covered
Crop	15	16941
Livestock	04	
Fishery	0	
Weather	11	
Marketing	02	
Awareness	05	
Training information	02	
Other	--	
<b>Total</b>	<b>39</b>	<b>16941</b>

## 9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	4004788
2.	No. of farmers registered in the portal	14610
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
NA	

## b. Details of Swachhta activities with expenditure

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

## 9.6. Observation of National Science day

Date of Observation	Activities undertaken
NA	

## 9.7. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants

NA

## 9.8. Agriculture Knowledge in rural school

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

Give good quality 1-2 photograph(s)

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

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

## 9.10. Details of Swachhta Hi Sewa programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
NA					

## 9.11. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1.	Debate competition Essay writing Drawing competition	06	55	--	--

## 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.	Durga Charan Pradhan	At- Bangalipada, Po- Kikia, Via- Utkela, Block- Kesinga, Dist- Kalahandi Mobile no- 91-9583474582	Cotton Ridger
2.	Indubhusan Swain	At/Po-Boria Via- Utkela, Block- Kesinga, Dist- Kalahandi Mobile no- 91-9938090828	Banana cultivation
3.	Ghanashyam Verma	Village-Jurkabadi, Block- Kesinga Mobile no-91-9938514100	Agro-forestry model
4.	Prahallad Budhia	Village- Kanakpur,Block- Bhawaniatna Mobile no- 8018698722 / 7894581168	Integrated farming system
5.	Ajit Pradhan	Village-Dahal, Po-Kandel, Block- Narla	Hybrid Paddy

		Mobile no- 91-9777870404	
6.	Janmenjaya Mahapatra	Village-Durduri, Block-Bhawanipatna Mobile no- 91-9777870404	Pond based farming system
7.	Murali Budhia	Village- Kanakpur,Block-Bhawaniatna Mobile no- 91-7894581168	Integrated Farming system
8.	Kesab Chandra Bhoi	At/Po-Kashrupada, Block- Kesinga Mobile no- 91-7894581168	Hybrid sunflower production
9.	Ahalya Sahu	Village- Malgaon Block-Bhawanipatna Mobile no- 91-9777463293	Mushroom Production
10.	Ashok Kumar Pattnaik	Village- Ghantabahali, Block-Junagarh Mobile no- 91-9439120060	Poultry farming

## 9.13. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Training hall and AV aids	5500	NGOs
2.	Farmers Hostel	60400	Skill Training and other sponsored training

## 9.14. Resource Generation:

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

## 9.15. Performance of Automatic Weather Station in KVK

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

## 9.16. Contingent crop planning

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

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

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

	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs
Experiment 1						
Experiment 2						



				M	F	M	F	M	F	M	F	T	
In-situ moisture conservation measures (BBF/Ridge&furrow/contour trenching/mulching/conservation furrow/bunding etc...)			12	1 1	5	1 0	2	7		28	7	35	Net Return= 11,200/-
Water harvesting and recycling for supplemental irrigation (Community ponds/farmponds/jalkunds/checkdams/polybag checkdams/wells etc...)			3.5	8	4	1 0		4		22	4	26	Net Return= 3,20,800/-

## Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted									Remarks
		SC		ST		Other		Total			
		M	F	M	F	M	F	M	F	T	
Drought tolerant varieties demonstrated	3.5	5	5	7	2	4		16	7	23	Net Return = 1,05,800/-
Brinjal	4.2	1	5	8	5	6		24	1	34	Net Return = 1,19,000/-
Tomato	3.6	0		8		5		18	0	18	Net Return = 1,16,000/-
Chilli	5.8	5	5	6	5	6		18		28	Net Return = 19,000/-
Black gram	19.5	6	6	1	4	6		26	1	36	Net Return = 48,000/-
Cotton	12.6	1	3	0		5		20	0	23	Net Return = 39,500/-
Arhar		0 7		8						1 0 3	
Water saving paddy cultivation methods (SRI, aerobic, direct seeding)	20	1 2	4	1 4	5	7		33	9	42	Net Return = 35,720/-
Community nurseries for delayed monsoon	5	1 1	5	1 4	6	6		31	1 1	43	Net Return = 7,300/-
Location specific intercropping systems with high sustainable yield index	24	9	5	1 1	7	5		25	1 2	37	Net Return = 49,000/-

## Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
Use of community lands for fodder production during droughts / floods	300		4.3	1 0		1 2		2		24		24	Net Return = 6,200/- for 6 months / Animal
Preventive vaccination	480			2 2		2 0		5		47		47	Net Return = 5,200/- for 6 months/ Animal
Improved shelters for reducing heat stress/ cold stress/ water logging/ flood	15			5		3				8		8	Net return = 4,400/- per goat/year



and diseases in livestock																				
Improved feeding like location specific mineral mixtures or mineral bricks	250					1	2		2					43			43			Net Return = 7,850/- for 6 months/ Animal

## Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	
Seed bank	1		1	4	1	4	3		26	8	34	Quantity produced = 47 q
Fodder bank	1		1	4	8	2	2		20	6	26	Quantity produced = 39 q

## Capacity building

Thematic area	No of Courses	No of beneficiaries									
		SC		ST		Other			Total		
		M	F	M	F	M	F	M	F	T	
Nutrient management	1	8	6	7	4	2	3	17	13	30	
Pest and disease management	1	9	3	9	2	4	3	22	8	30	
Pest and disease management	1	8	4	8	3	5	2	21	9	30	
Live stock management	1	8	4	6	5	4	3	18	12	30	

## Extension activities

Thematic area	No of activities	No of beneficiaries									
		SC		ST		Other			Total		
		M	F	M	F	M	F	M	F	T	
Field day on Micro Nutrient management on maize	1	14	6	12	7	6	5	32	18	50	
Integrated pest management in cotton	1	12	9	9	8	7	5	28	22	50	
Demonstration on mushroom cultivation	1	8	6	7	4	2	3	17	13	30	
Demonstration of integrative nutrient management in cotton	1	9	3	8	3	5	2	22	8	30	
Demonstration on care and management of livestock	1	7	5	6	5	4	3	17	13	30	
Awareness programme on BPH infestation in paddy	1	15	8	11	6	6	4	32	18	50	
Awareness programme on FMD infection in cattle	1	10	9	9	10	7	5	26	24	50	
Awareness programme on integrated pest management in cotton	1	14	5	13	6	7	5	34	16	50	

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
NA					

## Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
1.	Progressive farmer	Nityananda Pradhan	2018	OUAT, Bhubaneswar	--	57 <sup>th</sup> OUAT Foundation Day

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

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

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

## 16. Integrated Farming System (IFS)

## Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
NA							

## 17. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Pulse seed hub on Pigeon Pea (PRG-176)	Seed inoculation with Rhizobium culture (20gm per kg of seeds)  Application of Post emergence herbicide Glyphosate 41%SL @ 2.5lit per ha followed by two hand weeding after 25 DAS & 45 DAS to control weed population.  Application of Delta+Triazophous@1lit/ha to control Aphid/Thrip population.	Rs. 25,400	15%	--

		Spraying of Azadirachtin 0.3% @ 2.5 Lit./ ha and Emamectin Benzoate 5%SC C @ 4gml /10lit to control pod borer infestation.  Spraying of micronutrient (planteid) 4ml/15lit of water at pre-flowering stage			
2	Demonstration on IPM modules for the management of plant hoppers in rice	Skip row planting (after 3 m), installation of spider trap @ 25/ ha. Need based alternate spraying (based on ETL ) of Flonicamid 175 g/ ha with tank mix of neem oil	Rs.32,900	20%	--
3	Demonstration of Brinjal variety Arka Navneeth	Brinjal Arka Navneeth Large Oval to oblong with deep purple colour Fruit weight-450gm Duration-150-160days Avg.Yield-65-70t/ha	Rs.2,42,000	15%	--
4.	Assessment of disease resistant Tomato varieties under rainfed condition	Tomato var. Arka Samrat	Rs.1,55,000	15%	--
5	Demonstration on management of collar rot disease in ground nut	Seed treatment with carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/ kg seeds during sowing and need base alternative spraying of chlorothalonil 75% wp (Kavach) @ 1.5 gm/lt. and carbendazim 2 gm/lt at 15 days interval	Rs.42,000	25%	--

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

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

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

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

## 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	Mushroom Grower	Dr.Madhumita Jena	10.2.2017	24.3.2017	20	Y	
	Small poultry farmer	Dr. Hrudananda Malik	8.2.2017	20.3.2017	20	Y	
2017-18							
2018-19	Mushroom Grower	Dr.Madhumita Jena	28.01.2019	20.03.2019	20	Y	1,61,268
	Small poultry farmer	Dr. Hrudananda Malik	18.2.2019	30.3.2019	20	Y	1,91,504

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

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	

21. Information on NARI Project (if applicable)

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

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

**Krishi Kalyan Abhiyan- I and II**

**A. Training**

Name of programme	No. of programmes	No. of farmers benefitted									No. of officials attended the programme
		SC		ST		Others		Total			
		M	F	M	F	M	F	M	F	T	
KKA-I	26	222	149	114	208	240	267	676	624	1300	120
KKA-II	26	248	178	166	177	254	277	668	632	1300	114

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

Name of program me	No. of Program me	Total quantity distributed				No. of farmers benefited									No. of other officials (except KVK) attended the program me
		Seed (q)	Planting material (lakh)	Input (kg)	Other (kg/No.)	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
KKA-I	--	1087.8	12500	1800		3212	2810	1459	1172	1428	578	6099	4260	10359	140
KKA-II	--	--	4500	7600	--	484	--	312	58	360	36	1156	94	1250	140

### C. Livestock and Fishery related activities

Name of program me	No. of Programme	Activities performed				No. of farmers benefited									No. of other officials (except KVK) attended the programme
		No. of animals vaccinated	No. of animals dewormed	Feed/nutrient supplements provided (kg)	Any other (Distribution of animals/birds/fingerlings) [No.]	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
KKA-I		18800	--	--	--	2584	--	2512	--	4125	--	9221	--	9221	70
KKA-II		15700	--	--	--	1578	--	2158	--	2064	--	5800	--	5800	75

### D. Other activities

Name of programme	Activities	No. of farmers benefited									No. of other officials (except KVK) attended the programme
		SC		ST		Others		Total			
		M	F	M	F	M	F	M	F	T	
KKA-I	Soil Health Card Distributed	445	195	315	201	455	134	1216	530	1746	65
	NADEP Pit established	110	--	139	--	166	--			415	142
	Farm implements distributed	57	25	63	24	75	--	195	49	244	75
	Others, if any										
KKA-II	Soil Health Card Distributed	88	29	124	65	158	58	369	152	521	58
	NADEP Pit established	--	--	--	--	--	--	--	--	--	--
	Farm implements distributed	12	--	08	--	15	5	35	5	40	20
	Others, if any										

No. of villages covered	No. of animal inseminated	No. of farmers benefitted									Any other, if any (pl. specify)
		SC		ST		Others		Total			
		M	F	M	F	M	F	M	F	T	
25	493	88	--	68	--	95	--	251	--	251	
25	2390	281	--	289	--	580	--	1150	--	1150	

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)

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