

ANNUAL REPORT

2019-20

Contact Details:

KRISHI VIGYAN KENDRA, JAGATSINGHPUR

ODISHA UNIVERSITY OF AGRICULTURE & TECHNOLOGY, BHUBANESWAR
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Contact No.876380576 (Senior Scientist & Head)



PROFORMA FOR ANNUAL REPORT 2019 (January-December 2019)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Jagatsinghpur At-Nimakana, P.O-Manijanga, Dist-Jagatsinghpur Pin-754160, State-Odisha	8249447374		kvkjagatsinghpur.ouat@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
OUAT, Bhubaneswar Pin-751003 Orissa	(0674) 2392677	(0674) 2391780	registrarouat@gmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Biswa Ranjan Pattanaik		8249447374	biswaranjan.pattanaik2010@gmail.com

1.4. Year of sanction of KVK: 2005

1.5. Staff Position (as on 1st January, 2019)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/Temporary	Category (SC/ST/OBC/Others)
1	Programme Coordinator	Dr. Biswa Ranjan Pattanaik	Senior Scientist & Head	Agril. Extension	15,600-39,100 AGP:8,000 Basic:28,230	25.05.2018	Temporary	OTHER
2	Subject Matter Specialist	Mr. Ashis Ku. Mohanty	Scientist (Horticulture)	Horticulture	15,600-39,100 AGP:6,000 Basic:25,780	23.09.2009	Temporary	OTHER
3	Subject Matter Specialist	Dr. Prabhat Kumar Padhi	Scientist (Animal Science)	Veterinary Science	15,600-39,100 AGP:6,000 Basic:17,610	16.06.2015	Temporary	OTHER
4	Subject Matter Specialist	Mr. Bijay Ku Routray	Scientist (Plant protection)	Entomology	15,600-39,100 AGP:6,000 Basic:23,950	03.02.2016	Temporary	OTHER
5	Subject Matter Specialist	Mr. Dibyendu Mondal	SMS (Agronomy)	Agronomy	15,600-39,100 AGP: 5400 Basic: 15600	20.08.2018	Temporary	SC
6	Subject Matter Specialist	Dr. Pradipta Majhi	SMS(Soil Sc. & Agril. Chemistry)	Soil Sc. & Agril. Chemistry	15,600-39,100 AGP: 5400 Basic: 15600	27.11.2018	Temporary	OTHER
7	Subject Matter Specialist	Mrs. Sasmita Purohit	Scientist(Home Science)	Home Science	15,600-39,100 AGP:6,000 Basic:25,780	22.12.2018	Temporary	OTHER
8	Programme Assistant	Mrs. Sarita Das	Programme Assistant(Fishery)	Fishery Science	9,300-34,800 G.P:4,200 Basic:15,100	25.07.2018	Temporary	OTHER
9	Computer Programmer	Samir Kumar Pattanaik*	Prog. Asst. (Comp Sc)	Computer Sc.	9,300-34,800 G.P:4,200 Basic:12,430	31.01.2015	Temporary	OTHER
10	Farm Manager	Mr. Rabindra Kumar Pradhan	Farm Manager	Horticulture	9,300-34,800 G.P:4,200 Basic:10,560	16.11.2012	Temporary	OBC
11	Accountant Superintendent /	Vacant	-	-	-	-	-	-
12	Stenographer	Mr. Kamal Lochan Mahanta	Jr. Steno-cum-Computer Operator	Arts, MCA	5,200-20,200 G.P: 2,400 Basic: 8,490	10.07.2014	Temporary	OBC
13.	Driver	Mr. Pradipta Kumar Barik,	Driver-cum-Mechanic	-	5,200-20,200 G.P: 1,900 Basic:7,970	04.08.2008	Temporary	OBC
14.	Driver	Mr. Sanjay Kumar	Driver-cum-Mechanic	-	5,200-20,200	14.09.2017	Temporary	OTHER

		Panda			G.P: 1,900 Basic:7,970			
15.	Supporting staff	Mr. Karunakar Singh	Peon-cum-Watchman	-	4,750-14,680 G.P: 1,500 Basic:6,270	18.09.2017	Temporary	OTHER
16.	Supporting staff	Smt. Urbasi Nayak	Peon-cum-Watchman	-	4,750-14,680 G.P: 1,500 Basic:6,740	22.12.2007	Temporary	ST

*Sri Samir Kumar Pattanaik, Prog. Asst (Computer) has been relieved from KVK, Jagatsinghpur on pending handing over charges on dt 09.05.2016. He is being deployed at Office of the Directorate of Extension Education, OUAT & drawing salary from salary head of KVK, Jagatsinghpur since 24.07.2017.

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1.19
2.	Under Demonstration Units	1.5
3.	Under Crops	9.53
4.	Orchard/Agro-forestry	-
5.	Others with details	1.0
	Total	13.22

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					2008		Use	ICAR
2.	Farmers Hostel					2008		Use	ICAR
3.	Staff Quarters (6)					2012		Use	ICAR
4.	Piggery unit					2017		Use	RKVY
5	Fencing					2015		Use	RKVY
6	Rain Water harvesting structure					-			
7	Threshing floor					2007		Use	ICAR
8	Farm godown					2013		Use	ICAR
9.	Dairy unit					2017		Use	ICAR
10.	Poultry unit					2011		Use	RKVY
11.	Goatary unit					2011		Use	RKVY
12.	Mushroom Lab					2011		Use	RKVY

13.	Mushroom production unit					2017		Use	ICAR
14.	Shade house					2014		Use	RKVY
15.	Soil test Lab					2017		Use	ICAR
16	Others, Please Specify								
	• Vermi Yard					2011		Use	RKVY
	• IFS Unit					2017		Use	ICAR
	• Herbal Garden					2017		Use	ICAR
	• Carp Hatchery					2011		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	2005-06		1,79,493	Condemned since 30.11.2017
Tractor	2018-19	7,00,000	58	Running
Motor cycle	2010-11	65,000/-	21,712	Running
Bolero purchased by DPP OUAT & handed over to KVK Jagatsinghpur.				

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Automatic Nitrogen Analyzer with digestion Unit	2017	2,79,000	Working	ICAR
KES 08 LE	2017	77,500	Working	ICAR
KEL VAC VA	2017	69,900	Working	ICAR
Flame Photometer	2017	51,600	Working	ICAR
Digital Soil Moisture Meter	2017	27,706	Working	ICAR

Physical Balance	2017	3,350	Working	ICAR
All Glass Double Distillation Unit	2017	58,000	Working	ICAR
Distillation Appts Power Supply	2017	9,770	Working	ICAR
PH Meter-Micro Controller	2017	28,550	Working	ICAR
Conductivity Meter	2017	18,900	Working	ICAR
Rotary Shaker	2017	22,050	Working	ICAR
Flask Holding Clamp	2017	6,000	Working	ICAR
Mechanical Stirrer	2017	8,000	Working	ICAR
Bouycocus Hydrometer	2017	9,775	Working	ICAR
Hot Air Oven (Digital)	2017	27,310	Working	ICAR
Thermometer	2017	300	Working	ICAR
Water Quality Analyzer	2017	70,870	Working	ICAR
Vortex Shaker	2017	15,500	Working	ICAR
Magnetic Stirrer with Hot Plate	2017	16,800	Working	ICAR
Wooden Geological Hammer	2017	900	Working	ICAR
Sieve Brassframe	2017	3,570	Working	ICAR
Keen Cup	2017	3,600	Working	ICAR
Soil Moisture Sample Box	2017	3,300	Working	ICAR
Soil Agar Screw Type	2017	3,600	Working	ICAR
Electronic Balance	2017	64,000	Working	ICAR
Top Pan Balance	2017	36,000	Working	ICAR
PC based double beam UV Vis Spectrometer	2017	3,52,013	Working	ICAR
Refrigerated Centrifuge	2017	1,92,000	Working	ICAR
Angle Head R-244m -12x15ml	2017	17,000	Working	ICAR
Angle Head	2017	13,000	Working	ICAR
Voltage Stabilizer	2017	13,200	Working	ICAR
Hot Air Oven	2011	15,000	Working	RKVY
Autoclave fully automatic	2011	79,750	Working	RKVY
Pan Electronic Balance	2011	5,460	Working	RKVY
Honda Gen Set	2009	35,873	Working	ICAR
Laminar Air Flow	2011	55,125	Working	RKVY
Honda Brush Cutter	2018	27,585	Working	ICAR
Refregerator	2011	19,000	Working	RKVY
Desktop Computer	2016	38,500	Working	ICAR
Printer	2018	14,000	Working	ICAR
Stabilizer	2018	4,800	Working	ICAR
Photo copier	2016	13,333	Working	ICAR

Xerox machine	2016	72,556	Working	ICAR
UPS	2016	1,636	Working	ICAR
Inverter with Battery	2017	34,349	Working	ICAR
Tablet	2017	10,004	Working	ICAR
Grinder	2016	2,600	Working	ICAR
Air Conditioner	2018	47,200	Working	ICAR
Desktop Computer	2018	47,750	Working	ICAR
Air Conditioner	2009	29,390	Working	ICAR
Air Conditioner	2011	30,190	Working	ICAR
b. Farm machinery				
MB Plough			Working	ICAR
Rotavator	2012	79,800	Working	ICAR
Cultivator	2012		Working	ICAR
Power sprayer	2012	9,054	Working	ICAR
Pumpset	2012	11,146	Working	ICAR
Pumpset	2015	19,000	Working	ICAR
c. AV Aids				
LCD projector	2009		Working	ICAR
Laptop	2009	47,300	Working	ICAR
DVD	2007	2,133	Working	ICAR
TV	2007	9,955	Working	ICAR
Amplifier	2017	10,500	Working	ICAR
Video Camera	2017	32,990	Working	ICAR
Digital Camera	2012	19,700	Not Working	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
MB Plough			Working	ICAR
Rotavator	2012	79,800	Working	ICAR
Cultivator	2012		Working	ICAR
Power sprayer	2012	9,054	Working	ICAR
Pumpset	2012	11,146	Working	ICAR
Pumpset	2015	19,000	Working	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.	14.01.2020	20	<ul style="list-style-type: none"> • Suitable low land water submergence tolerant rice varieties may be taken. 	<ul style="list-style-type: none"> • Assessment of submergence tolerant rice varieties- Swarna sub 1 and CR1009 sub 1 	
			<ul style="list-style-type: none"> • Training should be given on problem soil management. 	<ul style="list-style-type: none"> • Training programme on Salinity management conducted at village-Achyutdaspur and Japa in Ersama block. 	
			<ul style="list-style-type: none"> • Manual weeding is expensive in transplanted rice. Suitable herbicide may be applied. 	<ul style="list-style-type: none"> • Assessment of herbicides (Bispyribac sodium 10 SC and Amix 20 WP) for weed control in transplanted rice 	
			<ul style="list-style-type: none"> • BPH and WBPH in rice is a major problem. 	<ul style="list-style-type: none"> • Demonstration of management of BPH and WBPH in rice 	
			<ul style="list-style-type: none"> • Wilting in brinjal is a problem. 	<ul style="list-style-type: none"> • Demonstration of Integrated management of wilt complex in brinjal 	
			<ul style="list-style-type: none"> • Low yield in Green gram 	<ul style="list-style-type: none"> • Demonstration on INM in Green gram 	
			<ul style="list-style-type: none"> • Low keeping quality and dull colour of tomato due to sulphur deficiency. 	<ul style="list-style-type: none"> • Demonstration on sulphur application in medium land tomato 	
			<ul style="list-style-type: none"> • Late maturity in heifers. 	<ul style="list-style-type: none"> • Demonstration on bypass fat feeding and mineral mixture supplementation for early sexual maturity in heifers at Bagoi & Gamhapur village. 	
			<ul style="list-style-type: none"> • Popularization of fodder cultivation for dairy. 	<ul style="list-style-type: none"> • Demonstration on Hybrid Napier (CO-4) fodder production in dairy farming. 	
			<ul style="list-style-type: none"> • YVMV problem in Green gram 	<ul style="list-style-type: none"> • Demonstration of Integrated management of YVMV in green gram 	
			<ul style="list-style-type: none"> • Training on Vermicomposting and Organic farming should be taken up by KVK 	<ul style="list-style-type: none"> • Training programme conducted at village- Gamhapur 	
			<ul style="list-style-type: none"> • Organic vegetable cultivation may be initiated in KVK in a small area 	<ul style="list-style-type: none"> • A Nutritional garden has been established with organic inputs 	
			<ul style="list-style-type: none"> • During distribution of soil health card, the officials of line department may be included. 	<ul style="list-style-type: none"> • On 5th December,2019 World Soil Day was organized jointly with Agriculture department. 	

			<ul style="list-style-type: none"> • Farmers should be counseled on the right time and right dose of pesticides as prevention is better than cure. 	<ul style="list-style-type: none"> • KMAS is being sent every month 	
			<ul style="list-style-type: none"> • Green manuring in rice may be taken up./ Management of Acidic & Saline soil 	<ul style="list-style-type: none"> • Demonstration on Green manuring of Dhaincha for salinity management in rice 	
			<ul style="list-style-type: none"> • IMC production should be doubled 	<ul style="list-style-type: none"> • Demonstration of “Jayanti Rohu” in composite carp culture for more yield and Demonstration of Amur carp in composite pisciculture 	
			<ul style="list-style-type: none"> • YVMV in green gram is a major problem in the district. 	<ul style="list-style-type: none"> • Demonstration of Integrated management of YVMV in green gram 	
			<ul style="list-style-type: none"> • Discolouration, cracking and poor quality of curd in cauliflower. 	<ul style="list-style-type: none"> • Assessment of Sulphur and Boron application in Cauliflower 	
			<ul style="list-style-type: none"> • FLD on Vermicompost production may be undertaken 	<ul style="list-style-type: none"> • Demonstration of production technology of Vermicompost has been undertaken in village-Nimakana, Gamhapur, Gobindapokhari and Japa. 	
			<ul style="list-style-type: none"> • Less oil content and poor quality pod in Groundnut 	<ul style="list-style-type: none"> • Demonstration on Secondary and micro nutrient(Sulphur and Boron) application in Groundnut 	
			<ul style="list-style-type: none"> • Weeding in brinjal by farm women is a tedious process 	<ul style="list-style-type: none"> • Demonstration of Wheel Cycle Weeder in Brinjal for drudgery reduction of farmwomen 	
			<ul style="list-style-type: none"> • Khaira disease of rice 	<ul style="list-style-type: none"> • Assessment of zinc deficiency in lowland rice 	
			<ul style="list-style-type: none"> • Low yield of paddy straw mushroom 	<ul style="list-style-type: none"> • Assessment of humidity/moisture management in paddy straw mushroom in low temp. 	
			<ul style="list-style-type: none"> • Farmers getting low price of milk due to low fat percentage 	<ul style="list-style-type: none"> • Assessment of bypass fat feeding for increasing milk production in dairy cows conducted at Gamhapur, Bagoi, saharadia & Mohammodabad and Goram Village 	
			<ul style="list-style-type: none"> • Sheath Blight in rice is a problem 	<ul style="list-style-type: none"> • Assessment of Integrated practices of management of Sheath Blight in rice 	
			<ul style="list-style-type: none"> • Malnutrition in members of farm family 	<ul style="list-style-type: none"> • Demonstration of nutritional garden for Improving Nutritional Security of farm family 	
			<ul style="list-style-type: none"> • Stunted growth of chickens in backyard poultry 	<ul style="list-style-type: none"> • Comparative assessment of multi-enzyme mixture and probiotics on growth of chickens in semi intensive system of 	

				rearing conducted at Saharadia, Bagoi, Gamhapur village	
			• Small size curd and low yield in cauliflower	• Demonstration of Arka Microbial Consortium (Microbial Plant Growth Promoters) for enhancing yield in Cauliflower	
			• Deficiency of micro-nutrients in vegetables	• Demonstration of application of Micro-nutrient mixture for increasing fruit yield in Okra	
			• Seedling raising in coco peat may be tried	• Assessment of different methods of portray nursery raising for quality seedling production in tomato	
			• Yard long bean is being widely cultivated. Suitable variety may be tried	• Demonstration of Yard Long Bean variety “Arka Mangala” for higher yield	
			• Drumstick is rich in iron. Suitable variety for Jagatsinghpur district may be tried	• Assessment of drumstick varieties (Bhagya and PKM-1) for higher yield in drumstick	
			• Popularize Salt tolerant Varieties like Luna Sampad in saline areas	• One varietal trial has been initiated at KVK farm for multiplication of seeds. Rice seeds of different salt tolerant varieties has been distributed during kharif season. Training programme conducted at Japa village	

* *Salient recommendation of SAC in bullet form*

Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2019-20)

Sl. no.	Item	Information
1	Major Farming system/enterprise	Rice- Green gram/,Rice Vegetables /Dairy /Fishery
2	Agro-climatic Zone	East & south eastern coastal plain
3	Agro ecological situation	Costal irrigated alluvium Rain-fed alluvium Costal alluvial saline Costal waterlogged
4	Soil type	Sandy loam to clay loam
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Paddy-3.6t/ha Greengram -0.432t/ha Black gram -0.450t/ha

		Chilli-1.13t/ha,Sugarcane-70.t/ha,Groundnut-2.36t/ha
6	Mean yearly temperature, rainfall, humidity of the district	30 °C & 18 °C, Annual rainfall – 1521.16 mm, 98%
7	Production of major livestock products like milk, egg, meat etc.	Dairy -102TMT milk/year, Psciculture-Inland- 494.4 ton /year Marine fish -8000 ton/year , Poultry -29.1 Million (Egg) 3.07 TMT (Meat) , Goatery -2.13 TMT (Meat), Mushroom - 10-12 q/day

Note: Please give recent data only

2.b. Details of operational area / villages (2019-20)

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	Tirtol	Tirtol	Nagapura	Rice, Greengram, Vegetables, Dairy, Poultry	Low yield in rice, Heavy incidence of pest and disease in rice Low yield in pulse, Low milk yield in Dairy, Low yield in vegetables	IPM in rice, IPDM in vegetables Introduction of high yielding varieties of vegetables, Entrepreneurship development, Farm mechanization
2	Erasama	Ersama	japa	Rice, greengram,Dairy ,Poultry, Psciculture	Low yield in rice, Heavy incidence of pest and disease in rice Low yield in pulse, Low milk yield in Dairy, Less availability of inputs like seed fertilizer and fingerlings, Underutilization of marine fish	IPM in rice ,Management of saline soil, Fish pond management, Entrepreneurship development, Farm mechanization
3	Kujanga	Kujanga	Bagoi	Rice,greengram, dairy,poultry, vegetables ,Psciculture	Low yield in rice, Heavy incidence of pest and disease in rice Low yield in pulse, Low milk yield in Dairy,Underutilization of marine fish	IPM in rice , IPDM in vegetables Introduction of high yielding varieties of vegetables, Fish pond management, Entrepreneurship development, Farm mechanization
4	Raghunathpur	Raghunathpur	Gamhapur	Rice, greengram, dairy, poultry, vegetables	Low yield in rice, Heavy incidence of pest and disease in rice Low yield in pulse, Low milk yield	IPM in rice , IPDM in vegetables Farm mechanization Introduction

					in Diary,	of high yielding varieties of vegetables, Entrepreneurship development
5	Jagatsinghpur	Jagatsinghpur	Gobindapokhari	Rice,greengram, dairy,poultry, Mushroom	Low yield in rice, Heavy incidence of pest and disease in rice Low yield in pulse, Low milk yield in Diary,Low yield in mushroom	IPM in rice , Farm mechanization Entrepreneurship development

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2019-20) for its development and action plan

Name of village	Block	Action taken for development
Nagapura	Tirtol	
Bagoi	Kujanga	OFT on submergence tolerant rice varieties OFT on Weed management in rice FLD on Weed management in green gram FLD on Nutrient management in Blackgram FLD on Green manuring in rice
Japa	Ersama	FLD on Green manuring in rice
Gamapur	Raghunathpur	OFT on submergence tolerant rice varieties OFT on Weed management in rice
Gobindapokhari	Jagatsinghpur	

2.1 Priority thrust areas

S. No	Thrust area
1.	Management of saline soil
2.	IPM and IDM in rice and vegetables
3.	Popularization of scented rice
4.	Introduction of high yielding varieties of vegetables and fruits
5.	Use of plasticulture
6.	Popularization of floriculture and high value crops
7.	IDM in betel vine
8.	Fish pond management

9.	Management practices in Dairy farming
10.	Empowerment of SHGs through agro enterprise
11.	Use of bio-fertilizers and bio-pesticides
12.	Feeding management in small ruminants
13.	Disease management in livestock and poultry
14.	Farm mechanization

3. TECHNICAL ACHIEVEMENTS

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

OFT											FLD										
No. of technologies tested:											No. of technologies demonstrated:										
Number of OFTs		Number of farmers									Number of FLDs		Number of farmers								
Target	Achievement	Target	Achievement								Target	Achievement	Target	Achievement							
			SC		ST		Others		Total					SC		ST		Others		Total	
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	T

Training											Extension activities										
Number of Courses		Number of Participants									Number of activities		Number of participants								
Target	Achievement	Target	Achievement								Target	Achievement	Target	Achievement							
			SC		ST		Others		Total					SC		ST		Others		Total	
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	T

Impact of capacity building				Impact of Extension activities			
Number of Participants trained	Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)			Number of Participants attended	Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)		

Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T

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

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

* 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							
Seminar/conference/ symposia papers							
Books							
Bulletins							
News letter							
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature							
Technical reports							
Electronic Publication (CD/DVD etc)							
TOTAL							

1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of submergence tolerant rice variety
2.	Problem diagnosed	Lower yield due to less tolerant of local varieties to water logging
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Technology option-I (TO-I): Cultivation of submergence tolerant, Swarna Sub 1 Technology option-II (TO-II): Cultivation of submergence tolerant, CR 1009 sub 1
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	NRRI, Cuttack, Odisha,2014 & TNAU, Coimbatore 2015
5.	Production system and thematic area	Rice- Greengram/Black gram/Vegetables & Varietal assessment
6.	Performance of the Technology with performance indicators	Water submergence period, Effective panicles/m ² , No of Filled grains /Panicle, 1000 grain weight
7.	Final recommendation for micro level situation	Swarna Sub1 performs better than CR 1009 Sub 1
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmer end as they got better price due to higher yield.

Thematic area: Varietal assessment

Problem definition: Lower yield due to less tolerant of local varieties to water logging

Technology assessed: Technology option-I (TO-I): Cultivation of submergence tolerant, Swarna Sub 1

Technology option-II (TO-II): Cultivation of submergence tolerant, CR 1009 sub 1

Table: 1

Technology option	No. of trials	Yield component			Period of submergence tolerant (Days)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/m ²	No. of grains per panicle	Test wt. (100 grain wt.)						
FP	7	398	179	21.0	6	39.6	39500	63360	23800	1.60
TO-I	7	482	205	21.8	12	44.8	40500	71380	31180	1.76
TO-II	7	448	193	22.2	14	42.9	40500	68640	28140	1.69

Results: Swarna sub 1 performed better than CR 109 Sub 1 in terms of yield under low land condition.

OFT-2

1.	Title of On farm Trial	Assessment of herbicides for weed management in transplanted <i>kharif</i> rice
2.	Problem diagnosed	Low yield due to high weed infestation and high cost due to manual weeding
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Technology option-I (TO-I): Post emergence application of Bispyribac Sodium 10 SC @ 25 ml/ha at 25 DAT Technology option-II (TO-II): Early PoE application of Almix 20 WP (metsulfuron methyl 10% + chlorimuron ethyl 10% WP) @ 4 g/ha at 15 DAT
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RRTTS, Ranital, Odisha, 2015 & AICRP on Weed management, Odisha, 2015
5.	Production system and thematic area	Rice- Greengram/Black gram/Vegetables & Weed Management
6.	Performance of the Technology with performance indicators	Weed flora composition, Weed control efficiency Effective panicles/m ² , No of Filled grains /Panicle, 1000 grain weight
7.	Final recommendation for micro level situation	Post emergence application of Bispyribac Sodium 10 SC @ 25 ml/ha at 25 DAT helps the farmers to reduce weed population below ETL & at the same time helps to

		increase the yield of Rice
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmer end as they got better price due to higher yield.

Thematic area: Varietal assessment

Problem definition: Low yield due to high weed infestation and high cost due to manual weeding

Technology assessed: Technology option-I (TO-I): Post emergence application of Bispyribac Sodium 10 SC @ 25 ml/ha at 25 DAT

Technology option-II (TO-II): Early PoE application of Almix 20 WP (metsulfuron methyl 10% + chlorimuron ethyl 10% WP) @ 4 g/ha at 15 DAT

Table: 1

Technology option	No. of trials	Yield component			Weed Control efficiency (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/m ²	No. of grains per panicle	Test wt. (100 grain wt.)						
FP	7	336	162	22.1	60.16	38.1	40120	61440	21320	1.53
TO-I	7	482	203	22.2	84.30	16.1	39600	73760	34160	1.86
TO-II	7	398	182	22.2	73.54	42.8	38100	68480	30380	1.79

Results: Post emergence application of Bispyribac Sodium 10 SC @ 25 ml/ha at 25 DAT helps the farmers to reduce weed population below ETL & at the same time helps to increase the yield of Rice

OFT-3

1.	Title of On farm Trial	Assessment of different methods of portrays nursery raising for quality seedling production in tomato.
2.	Problem diagnosed	High seedling mortality in main field
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice (FP): Seedling rising in Nursery bed. Technology option-I (TO-I): Use of normal Cocopeat for seedling production using CIWA technology. Technology option-II (TO-II): Use of Arka Microbial Consortium Fermented Cocopeat for raising seedlings.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-CIWA, Bhubaneswar & ICAR-IIHR, Bangalore
5.	Production system and thematic area	Vegetable-Vegetable; Nursery management
6.	Performance of the Technology with performance indicators	Seedling mortality percentage, Height and no of leaves per seedling, Days to seedling readiness for transplanting.
7.	Final recommendation for micro level situation	Use of Arka Microbial Consortium fermented Cocopeat for raising seedlings reduces the seedling mortality in main field thereby increases yield by increasing plant population in the main field.
8.	Constraints identified and feedback for research	Arka Microbial Consortium not available in local market.
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmers end as they got better income due to higher yield.

Thematic area: Nursery management

Problem definition: High seedling mortality in main field.

Technology assessed: Technology option-I (TO-I): Use of normal Cocopeat for seedling production using CIWA technology.

Technology option-II (TO-II): Use of Arka Microbial Consortium Fermented Cocopeat for raising seedlings.

Table: 1

Technology option	No. of trials	Yield component			No. of leaves	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Germination %	Seedling mortality % in field	Height of seedlings (cm) at 25 days)						
FP	7	92.7	14.9	8.4	9.2	242.2	72200	145398	73198	2.01
TO-I	7	97.6	2.4	10.1	12.1	376.12	78640	227246	148606	2.88
TO-II	7	98.4	1.2	10.8	12.4	396.22	78800	237852	159052	3.01

Results: Use of Arka Microbial Consortium fermented Cocopeat for raising seedlings reduces the seedling mortality in main field thereby increases yield by increasing plant population in the main field.

OFT-4

1.	Title of On farm Trial	Assessment of drumstick varieties for higher yield.
2.	Problem diagnosed	Low yield of local cultivars.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Farmers Practice (FP): Cultivation of local cultivars. Technology option-I (TO-I): Drumstick variety Bhagya. Technology option-II (TO-II): Drumstick variety PKM-1.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	SAU (UHS, Bagalkot) & SAU(TNAU, Coimbatore).
5.	Production system and thematic area	Vegetable-Vegetable ; Varietal evaluation

6.	Performance of the Technology with performance indicators	Pod length, No of pods per plant, Pod yield (q/ha)
7.	Final recommendation for micro level situation	Ongoing
8.	Constraints identified and feedback for research	NA
9.	Process of farmers participation and their reaction	NA

Thematic area: Varietal assessment.

Problem definition: Low yield of local cultivars.

Technology assessed: Technology option-I (TO-I): Drumstick variety Bhagya.
Technology option-II (TO-II): Drumstick variety PKM-1.

Table: 1

Technology option	No. of trials	Yield component		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Plant height(cm) at 180 DAP	Number of branches					
FP	7	165.1	4.3	Ongoing				
TO-I	7	195.3	7.6					
TO-II	7	180.4	6.8					

Results: Awaited

OFT-5

1.	Title of On farm Trial	Assessment of 3-row Rice transplanter in Rice for drudgery reduction of farmwomen
2.	Problem diagnosed	High drudgery in manual transplanting of paddy
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Technology option-I (TO-I): Line transplanting of paddy seedling with recommended line spacing of 20cm with the help of rope.. Technology option-II (TO-II): Transplanting of paddy seedling by 3 row rice transplanter
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	AICRP on Ergonomics & Safety in Agri., CAET, OUAT 2014
5.	Production system and thematic area	Paddy-Vegetable
6.	Performance of the Technology with performance indicators	Output(m ² /hr), Energy expenditure (KJ/Min), Heartbeat (beats/min), Increase in efficiency(%), Drudgery(%)
7.	Final recommendation for micro level situation	Performance of 3-row rice transplanter is better than manual transplanting and line transplanting to reduce drudgery of farmwomen
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Active participation of farmwomen from planning to execution. Encouraging response from the farmwomen regarding drudgery aspects

Thematic area: Varietal assessment

Problem definition: High drudgery in manual transplanting of paddy

Technology assessed: Technology option-I (TO-I): Line transplanting of paddy seedling with recommended line spacing of 20cm with the help of rope..

Technology option-II (TO-II): Transplanting of paddy seedling by 3 row rice transplanter

Table: 1

Technology option	No. of trials	Field capacity/output (sq.mt./hr.)	WHR (beats/min)	Increase in efficiency(%)	DrudgeryReduction(%)	EER(Kj/min/sq.mt)	Cost of cultivation(Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	7	66	114	-	-	8.5	45000	62400	17400	1.38
TO-I	7	50	112	24 (-)	28(-)	10.9	46700	66000	19800	1.41
TO-II	7	130	119	96	36	5.4	43000	67200	24200	1.56

Results: Performance of 3-row rice transplanter is better than manual transplanting and line transplanting to reduce drudgery of farmwomen

OFT-6

1.	Title of On farm Trial	Assessment of humidity/moisture management in paddy straw mushroom in low temp.
2.	Problem diagnosed	Low yield of paddy straw mushroom due to low humidity and environmental rise in

		temperature
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Technology option-I (TO-I): Cultivation of paddy straw mushroom with bundle straw substrate (3 layers) with covering the floor with 2 inch sand in moist condition. Technology option- II (TO-II): Cultivation of paddy straw mushroom with bundle straw substrate (3 layers) with covering the floor with sand in moist condition and spreading wet gunny bag along the windows / wall
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT-2014 (KVK- Bargarh)
5.	Production system and thematic area	Mushroom-Nushroom
6.	Performance of the Technology with performance indicators	Cost of intervention. Additional income over additional investmen, Yield (kg/bed), B:C ratio, Days to first flush, Size of fruit budding, Average fruit body wt. Pin head appearance (Days), Biological efficiency,
7.	Final recommendation for micro level situation	Yield of mushroom is better with bundle straw substrate (3 layers) with covering the floor with sand in moist condition and spreading wet gunny bag along the windows / wall
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Farmwomen are interested to adopt this technology

Thematic area: Varietal assessment

Problem definition: Low yield of paddy straw mushroom due to low humidity and environmental rise in temperature

Technology assessed: Technology option-I (TO-I): Cultivation of paddy straw mushroom with bundle straw substrate (3 layers) with covering the floor with 2 inch sand in moist condition.

Technology option-II (TO-II): Cultivation of paddy straw mushroom with bundle straw substrate (3 layers) with covering the floor with sand in moist condition and spreading wet gunny bag along the windows / wall

Table: 1

Technology option	No. of trials	Production/unit (10 beds)	Biological efficiency(%)	Cost of input(Rs/)	Incremental income (Rs/)	Net Income (Rs/)	BC Ratio
FP	7	8	8	800	1440	640	1.8
TO-I	7	9.23	9.23	870	1661	791	1.9
TO-II	7	12	12	900	2160	1210	2.4

Results: Yield of mushroom is better with bundle straw substrate (3 layers) with covering the floor with sand in moist condition and spreading wet gunny bag along the windows / walls

OFT-7

1.	Title of On farm Trial	Assessment of zinc deficiency in lowland rice
2.	Problem diagnosed	Low yield due to Zn deficiency
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-1: Soil Test Based Recommendation (STBR) NPK+ Zn @ 5 kg ha ⁻¹ TO-2: STBR NPK + 5t FYM ha ⁻¹ + Zn @ 2.5 kg ha ⁻¹
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on LTFE, OUAT, Bhubaneswar, Odisha, 2014 AICRP on Micronutrient, OUAT, Bhubaneswar, Odisha, 2014
5.	Production system and thematic area	Rice-Green/Black Gram & Nutrient Management
6.	Performance of the Technology with performance indicators	Initial and after harvest soil test value, Root growth (cm), Plant height, No. of tillers m ² , No. of filled grain per panicle, 1000 grain weight (gm), Cost of intervention. Additional income over additional investment Yield (q ha ⁻¹), B:C ratio
7.	Final recommendation for micro level situation	STBR NPK + 5t FYM ha ⁻¹ + Zn @ 2.5 kg ha ⁻¹ gives better yield
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmer end as they got better price due to higher yield.

Thematic area: Varietal assessment

Problem definition: Low yield due to Zn deficiency

Technology assessed: Technology option-I (TO-I): Soil Test Based Recommendation (STBR) NPK+ Zn @ 5 kg ha⁻¹

Technology option-II (TO-II): STBR NPK + 5t FYM ha⁻¹ + Zn @ 2.5 kg ha⁻¹

Table: 1

Technology option	No. of trials	Yield component			Root Length (cm) at 55 DAT	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/m ²	No. of grains per panicle	Test wt. (100 grain wt.)						
FP	8	402	171	21.4	10.2	36.1	37500	57760	20260	1.54
TO-I	8	429	184	22.4	12.5	39.3	40000	62880	22880	1.57
TO-II	8	452	198	22.7	13.7	43.8	43200	70080	26880	1.62

Results: STBR NPK + 5t FYM ha⁻¹ + Zn @ 2.5 kg ha⁻¹ gives better yield

OFT-8

1.	Title of On farm Trial	Assessment of Sulphur and Boron for curd quality and higher yield in cauliflower
2.	Problem diagnosed	Low curd keeping quality, flavour and yield due to secondary and micro nutrient deficiency
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO-1: STB R(NPK) + Sulphur @ 30 kg ha ⁻¹ as basal application TO-2: STBR (NPK) + Sulphur @ 30 kg ha ⁻¹ + 1 kg Boron as basal application TO-3: STBR (NPK) + 1 kg Boron as basal application
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on Micronutrient, OUAT, Bhubaneswar, Odisha, 2016
5.	Production system and thematic area	Rice-Green/Black Gram/ Vegetables & Nutrient Management
6.	Performance of the Technology with performance indicators	Curd weight (gm), plant spread (cm), no. of days harvesting, soil test value (before sowing and after harvesting)
7.	Final recommendation for micro level situation	STBR (NPK) + Sulphur @ 30 kg ha ⁻¹ + 1 kg Boron as basal application is recommended for higher yield in cauliflower.
8.	Constraints identified and feedback for research	

9.	Process of farmers participation and their reaction	Active participation of farmer from planning to execution. Encouraging response from the farmer end as they got better price due to higher yield.
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Thematic area: Varietal assessment

Problem definition: Low curd keeping quality, flavour and yield due to secondary and micro- nutrient deficiency

Technology assessed: TO-1: STBR (NPK) + Sulphur @ 30 kg ha⁻¹ as basal application

TO-2: STBR (NPK) + Sulphur @ 30 kg ha⁻¹ + 1 kg Boron as basal application

TO-3: STBR (NPK) + 1 kg Boron as basal application

Table: 1

Technology option	No. of trials	Yield component	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Curd weight(g)					
FP	7	336.22	232.8	75400	186240	110840	2.47
TO-I	7	516.41	258.6	77200	206880	129680	2.67
TO-II	7	542.48	286.2	78400	228960	118197	2.92
TO-III	7	528.32	271.6	76200	217280	141080	2.85

Results: STBR (NPK) + Sulphur @ 30 kg ha⁻¹ + 1 kg Boron as basal application gives highest yield and B:C ratio.

Please provide all the OFTs in same format

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	Problem Soil Management	Green manuring through <i>Sesbania aculeate</i> in paddy to reduce the salinity problem	2	2	2	0	0	0	8	0	10	0	10	-
2.	Groundnut	Weed management	Application of Early post emergence Imazethapyr application @750 ml /ha for weed management in groundnut	2	2	2	0	0	0	8	0	10	0	10	-
3.	Green gram	Nutrient management	Application of 2% Urea in green gram with STBR for yield enhancing	2	2	1	0	0	0	9	0	10	0	10	-
4	Chilli	Integrated crop management	Demonstration of Chilli variety "Arka Harita"	1.0	1.0	3	0	0	0	7	0	10	0	10	
5	Tomato	Integrated crop management	Demonstration of Tomato variety "Arka Rakshak"	1.0	1.0	4	0	0	0	6	0	10	0	10	
6.	Okra	Nutrient management	Application of Arka vegetable Micro-nutrient formulation as spray after flowering @10-20 g/litre	1	1	3	0	0	0	7	0	10	0	10	
7.	Cauliflower	Nutrient management	Soil Test based Fertilizer+ Seed treatment with Arka Microbial Consortium @10g/100g seed + Soil application with 5 kg AMC mixed with 500 kg FYM. It is a carrier based product which contains N-fixing, P & Zn solubilizing and plant growth promoting microbes as a single formulation which reduces cost of	1	1	5	0	0	0	5	0	10	0	10	

			cultivation and increases yield by 10-15%.												
8.	Capsicum	Varietal Substitution	Variety- Indra- F1, medium early, very productive variety Average fruit wt.-170 g Expected yield -350-400 qt./ha.	1	1	5	0	0	0	5	0	10	0	10	
9.	Yard Long Bean	Varietal Substitution	Cultivation of Yard long bean variety "Arka Mangala"	1	1	6	0	0	0	4	0	10	0	10	
10	Mushroom	Mushroom cultivation	During low temp. cultivation of Oyster mushroom var: <i>Hypizyous ulmarius</i>	200 beds	200 beds	0	0	0	4	0	6	0	10	10	
11	Mushroom	Mushroom cultivation	Production of paddy straw mushroom with threshed straw	200 beds	200 beds	0	0	0	3	0	7	0	10	10	
12	HYV vegetable	Nutritional security	Vegetable 10 plots:spinach,amaranthus,coriander,carrot, radish,tomato,cauliflower,cabbage,cowpea,cucurbits in fencing according to the season with papaya,drumstick,lime in one side	0.2 ha	0.2 ha	0	0	0	2	0	3	0	05	05	

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
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				N	P ₂ O ₅	K ₂ O					
Rice	Kharif	Rainfed									
Chili	Rabi2018-19	Irrigated	Alluvial soil	210-272	15-34	132-217	Cucumber/ Bitter gourd	22.10.18 - 30.10.18	24.2.19- 16.3.19	195.6	6.5
Tomato	Rabi2018-19	Irrigated	Alluvial soil	210-272	15-34	132-217	Cucumber/ Bitter gourd	13.10.18 - 20.10.18	21.2.19-7.3.19	216.8	11
Okra	Kharif	Rainfed	Alluvial soil	210-272	15-34	132-217	Beans/ Cowpea	22.9.19- 30.9.19	24.12.19 - 31.12.19	480.8	20.2
Cauliflower	Rabi	Irrigated	Alluvial soil	210-272	15-34	132-217	Cucumber/ Bitter gourd	04.09.19 - 12.09.19	11.11.19- 16.11.19	392.5	17.9
Capsicum	Rabi	Irrigated	Alluvial soil	210-272	15-34	132-217	Bitter gourd	01.11.19- 03.11.19	24.03.20- 31.03.20	124.5	4.3
Yard Long Bean	Rabi	Irrigated	Alluvial soil	210-272	15-34	132-217	Cucumber	13.10.19- 16.10.19	16.01.20- 30.01.20	275.6	10.8

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

Performance of FLD

Oilseeds:

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	Nutrient Management	Application sulphur @ 30 kg/ha and Boron @ 1.25 kg /ha as Borax	10	1	19.2	15.8	21.51	43470	92160	58690	2.12	41400	75840	34440	1.83
Total															

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

** BCR= GROSS RETURN/GROSS COST

Pulses

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Blackgram	Nutrient Management	Application of RDF of Blackgram in shape of DAP and MOP at PI stage of Rice and foliar application of 1% DAP+1% MOP at 20 and 40 DAS of Blackgram	10	2	7.3	5.6	23.28	19200	43800	24600	2.28	17200	33600	16400	1.95
Greengram	Weed management	Post emergence application of Quizalofop ethyl 5 EC @ 50 ml/ha at 20-25 DAS	10	2	8.0	5.6	30.00								
Green gram	Nutrient management	Application of 2% Urea in green gram with for yield enhancing	10	2	6.96	5.73	14.4	18470	41760	23290	2.26	17450	34380	16930	1.97
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	Problem Soil Management	Green manuring through <i>Sesbania aculeate</i> in paddy to reduce the salinity problem	10	2	26.8	22.6	18.58	Panicles/m ² : 178 Grains/Panicle: 84	Panicles/m ² : 152 Grains/Panicle: 72	27500	42880	15380	1.56	25000	36160	11160	1.43
Rice	Soil health management	STBR NPK + foliar spray of 0.25% borax at Panicle Initiation stage and at pre flowering stage.	10	2	41.7	38.4	8.59	Panicles/m ² : 393 Grains/Panicle: 189	Panicles/m ² : 380 Grains/Panicle: 151	39500	66720	27220	1.67	38500	61440	22940	1.59
Tomato	Soil health management	STBR NPK(120:60:80 kg/ha) + FYM@10 t/ha + S @ 25 kg/ha at the time of transplanting	10	2	431.9	375.6	13.03	Yield/plant- 6.24 kg	Yield/plant- 4.46 kg	78800	215950	137150	2.74	76200	187800	111600	2.46
Chilli	Integrated crop management	Demonstration of Chilli variety "Arka Harita"	10	1.0	282.61	224.81	25.71	Plant height at 120 DAT- 95.42 cm Yield/plant- 1.37 kg	Plant height at 120 DAT- 78.16 cm Yield/plant- 0.96 kg	68600	226088	64580	3.29	62400	179848	25730	2.88
Tomato	Integrated crop management	Demonstration of Tomato variety "Arka Rakshak"	10	1.0	396.42	242.33	63.58	Plant height at 120 DAT- 102.55 cm Yield/plant- 7.10 kg	Plant height at 120 DAT- 64.21 cm Yield/plant- 4.23 kg	78800	237852	87520	3.01	72200	145398	46600	2.01

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

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	During low temp. cultivation of Oyster mushroom var: <i>Hypsizyous ulmarious</i> Enterprise development	10	20	Production/unit (10 beds)= 23kg	Production/unit (10 beds) = 20 kg	15	Biological efficiency(%) =115 Wt. of fruiting bodies=50 gm.	Biological efficiency(%)=100 Wt. of fruiting bodies=40 gm.	400	1840	1440	4.6	400	1600	10	20
Paddy straw mushroom	Production of paddy straw mushroom with threshed straw	10	20	Production/unit (10 beds) =8 kg	Production/unit (10 beds)=10 kg	20 (-)	Amt. of straw used (Kg)=100 Biological efficiency(%)=10	Amt. of straw used (Kg) =50 Biological efficiency(%)=16	800	1800	1000	2.25	600	1440	10	20

Nutritional garden	A nutritional garden with trailis structure, vermi compost unit, protray for seedling raising will facilitate production of vegetables round the year and improve nutrient intake at household level	5	0.02 ha	Available of vegetable /day =2.14 kg	Available of vegetable /day =5.14 kg	140	Consumption of vegetable /day/family=1 kg Annual yield/10 plots (Kg) (Plot size 10 ft x 10 ft)=7.8 qtl	Consumption of vegetable /day/family-1.52 kg Annual yield/10 plots (Kg) (Plot size 10 ft x 10 ft)=16.34 qtl									
Vermicompost	Composting cow dung and leafy materials in the ratio of 3:10 in the vermicompost polythene bag size of 8'x4'x2.5' with release of earthworm (variety: <i>Eisenia foetida</i>) @ 1kg per quintal of waste material.	5	CONTINUING														
Sericulture																	

					check	change	Cost	Return	Return	
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (Pl. specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl. specify)										
Total										
Pulses										
Green gram										
Black gram										
Benga lgram										
Red gram										
Others (Pl. specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato	Arka	10	1.0	396.42	242.33	63.58	78800	237852	87520	3.01

	y demonstrated	(Rs/ha)	(Rs/ha)	(Rs/ha)		(Rs/ha)	(Rs/ha)	(Rs/ha)	
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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/household)

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended

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

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Total													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL													

B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Nursery Management of Horticulture crops	1	16	0	16	4	0	4	0	0	0	20	0	20
Training and pruning of orchards													
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming													
Seed production	2	37	0	37	3	0	3	0	0	0	40	0	40
Production of organic inputs	1	16	0	16	4	0	4	0	0	0	20	0	20
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping													
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing	1	20	0	20	0	0	0	0	0	0	20	0	20
Others	1	17	0	17	3	0	3	0	0	0	20	0	20

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Poultry production														
Ornamental fisheries														
Composite fish culture														
Freshwater prawn culture														
Shrimp farming														
Pearl culture														
Cold water fisheries														
Fish harvest and processing technology														
Fry and fingerling rearing														
Others														
Total														

F) Extension Personnel (Off Campus)

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

G) Consolidated table (ON and OFF Campus)

Farmers Seminar												
Workshop												
Group meetings												
Lectures delivered as resource persons												
Advisory Services												
Scientific visit to farmers field												
Farmers visit to KVK												
Diagnostic visits												
Exposure visits												
Ex-trainees Sammelan												
Soil health Camp												
Animal Health Camp												
Agri mobile clinic												
Soil test campaigns												
Farm Science Club Conveners meet												
Self Help Group Conveners meetings												
Mahila Mandals Conveners meetings												
Celebration of important days (specify)												
Sankalp Se Siddhi												
Swatchta Hi Sewa												
Mahila Kisan Divas												
Any Other (Specify)												
Total												

B. Other Extension activities

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

3.5 a. Production and supply of Technological products

Village seed

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

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 :	
Address :	
e-mail :	
Phone No. :	
Mobile :	

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2018						
Rabi 2018-19						
Summer/Spring 2019						
Kharif 2019						
Rabi 2019-2020						

iii) Financial Progress

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

iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

3.6.

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

Item	Title	Author's name	Number	Circulation
Research paper	Perception and Constraints faced by Pulse Grower and Yield gap analysis of Greengram (<i>Vigna radiata</i> L.) in East and South coastal plain of Odisha,India	S.R.Dash,B,K.Ra utaray and A,Dhal	International Journal of Current Microbiology and Applied Science(2018)7(1):338-346	3500
Seminar/conference/ symposia papers				
Books	Approach and Impact of Watershed Development	S D Mukhopadhyay,a nd S R Dash	100	100
Books	Paddy Cultivation	Dr. Deabsis Mishra	1000	450
Books	Poultry	Dr. P. K. Padhi	500	350
Bulletins				
News letter	Krushishree	Senior Scientist and Head	1500	1500
Popular Articles	Krushu Vigyan Kendra ra Bhumika, Matiagundi poka niyantrana	Senior Scientist and Head	1000	1000
Book Chapter				
Extension Pamphlets/ literature	Method of Soil Sampling		500	360
Extension Pamphlets/ literature	Soil Sample Collection		500	250
Technical reports				
Electronic Publication (CD/DVD etc)				
TOTAL				
Item	Title	Author's name	Number	Circulation
Research paper				
Seminar/conference/ symposia papers				
Books				
Bulletins				
News letter				
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature				
Technical reports				
Electronic				

Publication (CD/DVD etc)				
TOTAL				

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.					
2.					
3.					
4.					
5.					
6.					
7.					

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

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

b. Give details of organic farming practiced by the farmer

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

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

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed

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

Sl. No	Name of the Equipment	Qty.
1	Automatic Nitrogen Analyzer with digestion Unit	01
2	KES 08 LE	01
3	KEL VAC VA	01
4	Flame Photometer	01
5	Digital Soil Moisture Meter	01
6	Physical Balance	01
7	All Glass Double Distillation Unit	01
8	Distillation Appts Power Supply	01
9	PH Meter-Micro Controller	01
10	Conductivity Meter	01
11	Rotary Shaker	01
12	Flask Holding Clamp	01
13	Mechanical Stirrer	01
14	Bouycocus Hydrometer	01
15	Hot Air Oven (Digital)	01
16	Thermometer	01
17	Water Quality Analyzer	01
18	Vortex Shaker	01
19	Magnetic Stirrer with Hot Plate	01
20	Wooden Geological Hammer	01
21	Sieve Brassframe	01
22	Keen Cup	01
23	Soil Moisture Sample Box	01
24	Soil Agar Screw Type	01
25	Electronic Balance	01
26	Top Pan Balance	01
27	PC based double beam UV Vis Spectrometer	01
28	Refrigerated Centrifuge	01
29	Angle Head R-244m -12x15ml	01
30	Angle Head	01
31	Voltage Stabilizer	01
Sl. No	Name of the Equipment	Qty.

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			

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

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

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

3.13. Technology week celebration

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

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

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit

4. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Demonstration of herbicide Oxyfluorofen (Zargon) in Okra	70	60	54800/ha	64600/ha
Demonstration of Onion variety "Bhima Super"	62	40	47600/ha	60400/ha
Demonstration of French bean variety "Pusa Parvati" :	56	80	35900/ha	42200/ha

Demonstration of watermelon variety "Arka Jyothi" :	42	70	38150/ha	46500/ha
Demonstration on rearing of white pekin ducks for meat purpose	22	60	8000/100 nos	12000/100 no.
Demonstration on backyard poultry in post adverse climatic situations	170	80	6000/100 nos.	12000/no.
Demonstration of scented rice var. "Nua kalajira"	16	60	46900/ha	54200/ha
Demonstration on application of Nimin coated urea in low land paddy	112	70	6000/ha	10000/ha
Demonstration of herbicide 'Oxyfluorofen' in brinjal	10	50	54800	64600
Demonstration of Marigold var. "Siracole"	10	40	47600	60400
Demonstration on management of Blast in Rice	10	80	59200	74350
Demonstration on management of BPH in Rice	10	80	54400	57120
Demonstration on management of YMV in Okra	10	60	62000	74000
Demonstration on management of tobacco caterpillar in Cauliflower	10	60	54800	64600
Demonstration of Self propelled rice transplanter	10	60	54400	57120
Demonstration of paddy power weeder	10	40	52800	58200
Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

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		
	No. of villages	No. of farmers	Area in ha/no
Demonstration of herbicide Oxyfluorofen (Zargon) in Okra	06	18	2.6
Demonstration of Onion variety "Bhima Super"	08	54	32
Demonstration of French bean variety "Pusa Parvati" :	07	82	16.8
Demonstration of watermelon variety "Arka Jyothi" :	05	65	9.0
Demonstration on rearing of white pekin ducks for meat purpose	4	10	250
Demonstration on backyard poultry in post adverse climatic situations	90	780	450
Demonstration of scented rice var. "Nua kalajira"	07	42	22.0
Demonstration on application of Nimin coated urea in low land paddy	26	282	56
Demonstration of herbicide 'Oxyfluorofen' in brinjal	9	45	12
Demonstration of Marigold var. "Siracole"	2	16	2.0
Demonstration on management of Blast in Rice	56	242	82
Demonstration on management of BPH in Rice	48	231	74
Demonstration on management of YMV in Okra	12	86	24
Demonstration on management of tobacco caterpillar in	6	72	16

Cauliflower			
Demonstration of Self propelled rice transplanter	35	61	34
Demonstration of paddy power weeder	4	26	12
Horizontal spread of technologies			
Technology	Horizontal spread		

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	Poultry Hatching unit-cum Rearing and Feed Supply Centre
Name & complete address of the entrepreneur	Sri Bipin Bihari Pradhan Village - Bagoi GP - Bagoi Block - Kujanga Dist - Jagatsinghpur Mob - 9937212305
Role of KVK with quantitative data support:	Sri Pradhan was selected for the on farm trial programme on backyard poultry in the financial year 2014-15 & 2015-16. Before inducting Sri Pradhan was given intensive skill development programs on Scientific Poultry farming and management practices and low cost feed formulation of poultry from KVK, Jagatsinghpur. He also attended a lot of various awareness programmes and exposure visits to private poultry farms for gaining first hand experiences. KVK, Jagatsinghpur distributes 20 nos. Of Vanaraja and 20 nos. of Pallishree colour birds to him after 21 days of brooding programme. Dewarming and vaccination bird were done by Mr. Pradhan with technological back stopping by the Scientist of the KVK. Besides, he was linked with line department for govt. subsidy and also with bank for loan.
Timeline of the entrepreneurship development	Body weight of Vanaraja poultry at 52 weeks of age for male was about 3.6 kg while for female it was about 2.5 kg. and incase of Pallishree the body weight of male was 2.95 kg and 2.3 kg for female. Vanaraja produces 103-110 eggs and Pallishree produces 150-160 eggs per year and age of first egg laying of these breeds is almost similar i.e. 175-180 days by the time Sri Pradhan started to

	brood fertile egg of both Vanaraja and Pallishree by using his local hen.
Technical Components of the Enterprise	Backyard poultry farming with rural improved breed Breed upgradation by crossing these two breeds Hatching eggs of both Vanaraja and Pallishree by using local hen Supply chicks and fertile eggs of improved rural poultry breed
Status of entrepreneur before and after the enterprise	Sri Bipin Bihari Pradhan has got a net profit of 65,245/- by selling ready bird, table egg and newly hatched chicks from each unit and first batch.
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Sri Pradhan an un-employed rural youth paved the way for other un-employed youths as well as farmers and farm women to take up poultry rearing of improved breeds like Vanaraja and Pallishree as a viable rural entrepreneurship to generate low input and high output venture for sustainable livelihood development which can be achieved within a very short period of time.
Horizontal spread of enterprise	80 nos. of practicing women community from nearby 8 villages are now started backyard poultry farming with rural improved poultry breed.
Entrepreneurship development	
Name of the enterprise	
Name & complete address of the entrepreneur	
Role of KVK with quantitative data support:	
Timeline of the entrepreneurship development	
Technical Components of the Enterprise	
Status of entrepreneur before and after the enterprise	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	
Horizontal spread of enterprise	

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Dept of Agriculture /ATMA	Technology dissemination ,Capacity Building, Technology Sharing
Dept of Horticulture	Technology dissemination ,Capacity Building, Technology Sharing
Dept of Veterinary science	Veterinary Services, Training of farmers/ paravets, Backyard poultry farming, Animal health camp
Dept of Fisheries	Technical information, procurement of fingerlings, Linking beneficiaries of KVK
Odisha livelihood Misson	Backyard poultry farming, Small ruminant production
NABARD	Formation of Krishak club

NHM	Linking beneficiaries of KVK
ICAR-NRRI/CIFA/CHES/CTCRI/CIWA	Dairy farming,
CPDO/IPDP	Backyard poultry farming
FODDER FARM, BHUBANESWAR	Fodder slip/ roots supply, fodder cultivation
AICRP-FOODDER/POULTRY	Backyard poultry farming, fodder cultivation
Name of organization	Nature of linkage

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

a) Programmes for infrastructure development

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

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

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

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area(Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Poultry	2011	100	Rainbow Rooster, Pallishree	Devel oped chick	6500	3,80,000	4,19,000	Devel oped chicks suppli ed for backya rd rearing
2.	Goatary	2011	100	Sirohi	Breedi ng buck	1	10000		Due for culling / Replac ement
3.	Dairy	2017	100	Cross bred cow	Milk	4350 Kg	70000	128000	
4.	Fodder	2017	2000	Hybrid Napier, Guinea, Setaria, para grass, Signal grass, Green	Green fodder	150 quintal	4000	8000	For feedin g cows of demo unit

				panic, Sorghum, Maize, Cow pea					
5.	Vermi- compost	2011	50	Vermin	compo st	20	1000	10000	Used in crop cafetar ia

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		R e m a r k s
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	21.7.2019	1.1.2019	2.6	Pooja	Foundati on Seed	82.6		207326.00	
Paddy	21.7.2019	5.1.2019	1.75	Gayatri	Foundati on Seed	73.6		184736.00	
Paddy	21.7.2019	8.1.2019	2.25	Upahar	Foundati on seed	67.4		169174.00	

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.					

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Poultry	Rainbow Rooster, Pallishree		6500	3,80,000	4,19,000	
2.	Goatary	Sirohi		1	10000		Due for culling/ Replacement
3.	Dairy	Cross bred cow		4350 Kg	70000	128000	

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
July –Sept	21	45	
Oct-Dec	20	10	
Jan-Mar	50	10	
Total :	91	65	

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed:

No. of staff quarters:

Date of completion:

Occupancy details:

Months	Q I	Q II	Q III	Q IV	Q V	Q VI
April 2018 to August 2019	Filled					
April 2018 to March 2019	Filled			Vacant		
April 2018 to March 2019	Vacant			Filled		
April 2018 to March 2019	Filled				Filled	
April 2018 to March 2019	Filled					Vacant
April 2018 to March 2019	Vacant					

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Current Account (KVK Contiengency)	State Bank of India	ADB, Jagatsinghpur	11297400655
Current Account (Revolving fund)	State Bank of India	Rahama Branch	30773631818

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

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

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2013
	Kharif	Rabi	Kharif	Rabi	

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

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances			
2	Traveling allowances			
3	Contingencies			
A				
B				
C				
D				
E				
F				
G				
H				

<i>I</i>				
<i>J</i>	Swachhta Expenditure			
	TOTAL (A)			
B. Non-Recurring Contingencies				
1				
2				
3				
4				
	TOTAL (B)			
C. REVOLVING FUND				
	GRAND TOTAL (A+B+C)			

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2015-16	35,126.00	11,28,801.00	9,25,734.00	2,38,193.00
2016-17	2,38,193.00	1436318.00	1628182.00	46,329.00
2017-18	46,329.00	1254293.00	10,05,642.00	2,94,980.00
2018-19	2,94,980.00	11,05,320.00	9,96,918.80	8,29,000.00 (kind) + 4,03,381.20
2019-20				

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
BGREI	Monitoring	Kharif	Dept.of Agrl.		
Farmers Scientist Interaction	01	Rabi		With ATMA	
World soil, day	01	Rabi	Dept.of Agrl.		
Capacity building prog.	20	Kharif & Rabi	Dept.of Agrl.		
Animal Health Camp	04	Kharif and Rabi	Dept. Animal Sc.		
Panipanchayat training cum awareness	01	Kharif	Dept. of Water Resources		
Planting material verification	05	Kharif and Rabi	NHM		
Formation of Farm Science Club	03	Kharif and Rabi	NABARD		
Exhibition at District level	04	Kharif -2 & Rabi-2	Dept.of Agrl/Horti/Fishery/Animal Sc.		

8. Other information

8.1. Prevalent diseases in Crops

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

8.2. Prevalent diseases in Livestock/Fishery

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

9.1. Nehru Yuva Kendra (NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

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

Type of message	No. of messages	No. of farmers covered
Crop	10	15408
Livestock	2	15408
Fishery	2	15408
Weather	2	15408
Marketing	0	0
Awareness	4	15408
Training information	0	0
Other	3	15408
Total	23	15408

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	360
2.	No. of farmers registered in the portal	15408
3.	Mobile Apps developed by KVK	Nil
4.	Name of the App	Nil
5.	Language of the App	Nil
6.	Meant for crop/ livestock/ fishery/ others	Nil
7.	No. of times downloaded	Nil

9.5. a. Observation of Swachh Bharat Programme

Date of Observation	Activities undertaken
15 th September to 2 nd October 2019	1. Celebration of Sewa Divas (17 th Sept 2018) 2. Celebration of Sarwatra Swachhata (18 th Sept 2018) 3. Celebration of Samagra Swachhata Divas (24 th Sept. 2018) 4. Cleaning of Office Garden (2 nd Oct. 2018)

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	4	-
2. Basic maintenance		8,000
3. Sanitation and SBM		
4. Cleaning and beautification of surrounding areas	15	6000
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	2	2400
6. Used water for agriculture/ horticulture application	1	-
7. Swachhta Awareness at local level	7	1800
8. Swachhta Workshops		
9. Swachhta Pledge		
10. Display and Banner	2	450
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)	5	-
14. No of Staff members involved in the activities	12	
15. No of VIP/VVIPs involved in the activities	-	
16. Any other specific activity (in details)		
Total	48	18,650

9.6. Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school

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

Give good quality 1-2 photograph(s)

9.9. Details of 'Pre-Rabi Campaign' Programme

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

9.10. Details of Swachhta Hi Sewa programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	1. Celebration of Sewa Divas (17 th Sept 2019) 2. Celebration of Sarwatra Swachhata (18 th Sept 2019) 3. Celebration of Samagra Swachhata Divas (24 th Sept. 2019) 4. Cleaning of Office Garden (2 nd Oct. 2019)	3	75	-	-

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	Celebration of MahilaKisan Divas	2	50	-	-

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

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Sanjeet Mohanty	At- Khadala G.P : Bodhei Block: Kujanga, Dist-Jagatsinghpur Mob:9439082531	Farm mechanization
2	Laxman Sethi	At-Gamhapur, P.O-Redhua Block-Raghunathpur Dist-Jagatsinghpur Mob:9776231866	Intensive Vegetable cultivation
3	Muralidhar Behera	At- Bagoi, Kujanga, Jagatsinghour Mob -9438434252	Pulse production through farmers producer group
4	Mr. Saurav Biswal	At/P.O-Tulanga, Block-Tirtol Dist-Jagatsinghpur Mob:9237073446	Composite fish farming
5	Mr. Trilochan Mandal	At/P.O-Kunjakoti Block-Erasama Dist-Jagatsinghpur Mob:9937541303	Shrimp farming
6	Mr. Zakir Hussain	At/PO-Samang Block-Jagatsinghpur Dist-Jagatsinghpur Mob:9776707786	Poultry farming (Colour bird)
7	Mr. Jagannath Das	At-Balia, P.O- Anakhia, Block- Biridi, Dist- Jagatsinghpur Mob:933778214	Dairy farming
8	Mr. Rajib Rath	At-Putting P.O-Gopalpur Block-Tirtol Dist-Jagatsinghpur Mob:9658139870	Mushroom Spawn Production
9	Mr. Prafulla Chandra Jena	At-Bijipur, P.O-Sankheswar, Block-Tirtol Dist-Jagatsinghpur Mob:9437373297	Hi-tech Horticulture
10	Nrusingha Charan Behera	At/P.O -Teramanpur, Block-Kujang, Dist-	Intensive Vegetable Cultivation

		Jagatsinghpur Mob:9938145944	
11	Latika Swain	At/P,O- Krushnachandrapur Block-Tirtol Dist-Jagatsinghpur	Value added products
12	Sadananda Sahoo	At/PO-Taladanda, Block-Kujanga, Dist-Jagatsinghpur Mob:9438702494	Pond based IFS
13	Prakash Chandra Panda	At/Po-Kunjakoti Block-Erasama Dist-Jagatsinghpur Mob:9437317012	Mechanized farming

9.13. Revenue generation

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

9.14. Resource Generation:

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

9.15. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
2009	IMD	Not functioning

9.16. Contingent crop planning

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

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

a) Year: 2019-20

b) Introduction / General Information:

	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs

Experiment 1						
Experiment 2						
Experiment 3						
...						
..						
Others (If any)						

11. Details of TSP

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

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

b. Fund received under TSP in 2019-20 (Rs. In lakh):

c. Achievements of physical outcome under TSP during 2019-2020

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

d. Location and Beneficiary Details during 2019-2020

<i>District</i>	<i>Sub-district</i>	<i>No. of Village covered</i>	<i>Name of village(s) covered</i>	<i>ST population benefitted (No.)</i>		
				M	F	T

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

Extension activities

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

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

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

Award received by Farmers from the KVK district

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

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

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

Sl. No.	Name of the organization / Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
1	Maa Brajrakali Utpadak Gosthi		At/Po-Bagoi,Kujanga ,Jagatsinghpur	Seed Production	Paddy and Greengram	50	15.0	Group cohesiveness, leadership at village level, Adopting new technology
2	Matrusakti Poultry Producer Group		At/Po-Garam, Tirtol, Jagatsinghpr	Poultry production ,plate making,Ph enyl,Agar bati,Custom hiring	Poultry Implements Goat	25	12.0	Group cohesiveness, saving ability Group Dynamics ,ability to take risk on enterpreurship, leadership at village level, Adopting new technology
3	Satyasai Utpadika Gosthi		At/Po-Jagannathpur, Tirtol,Jagatsin ghpur	Poultry production ,plate making,Ph enyl,Agar bati,Custo	Poultry Implements Goat	31	25.00	Group cohesiveness ,saving ability Group Dynamics ,ability to take risk on enterpreurship,

				m hiring				leadership at village level, Adopting new technology
4	Dharmeswar Panchayat Mahasangha		At-Koasthi, Po-Kiranti, Tirtol, Jagatsinghpur	Poultry production, plate making, Phenyl, Agarbati, Custom hiring	Poultry Implements Goat	50	21.00	Group cohesiveness, saving ability Group Dynamics, ability to take risk on entrepreneurship, leadership at village level, Adopting new technology

16. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year
1	Pond	0.110	Not harvested	4,500	-	26	23
2	Dairy Unit	0.10	4800 liter	80,000	1,20,000	42	26
3	Mushroom Production Unit	0.50	60 kg	2400	4800	38	31
4	Vermicompost Unit	0.10	2q	500	1000	12	16
5	Poultry Unit	0.150	6500nos.	1,95,000	3,25,000	27	28
6	Piggery Unit	0.05	Not sold	15,000	-	1	2
7	Duckery Unit	0.05	Not sold	1000	-	6	2
8	Banana Unit	0.1	Not harvested	3200	-	21	27
9	Areca nut	0.05	Not harvested	2200	-	8	14
10	Single line Trellies System	0.05	Bitter gourd: 125 kg Ridge gourd: 105kg Country bean: 120 kg Ivy gourd: 52 kg (Harvest continuing)	1200 1400 1200 1200	2500 2100 2400 1040	4	26

17. Technologies for Doubling Farmers' Income

Sl.	Name of the	Brief Details of	Net Return to	No. of farmers	One high
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No.	Technology	Technology (3-5 bullet points)	the farmer (Rs.) per ha per year due to the technology	adopted the technology in the district	the resolution 'Photo' in 'jpg' format for each technology
1	Varietal substitution with Barshadhan Line transplanting STBF application	Varietal substitution with Barshadhan Line transplanting STBF application	27775	05	
2	summer cultivation of (green gram)	Cultivation of Green gram HYV : IPM 02-14 by broadcasting 20:40:20 kg NPK / ha Treatment with rhizobium and PSB	8540	05	
3	Paddy straw mushroom (2 beds/day for 4 mths) and cultivation of Oyster Mushroom (2 bags /day for 2 mths)	• Cultivation of Paddy straw mushroom - strain OSM-11 with proper management practices	19000	15	
4	stocking density in Farm pond	Pond and feed management with proper staking density	20000	05	

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)	13	85	-	-	Need based KMAS advisory given from time to time
II (up-to 24.04.219)	86	244			
Total	99	329			

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

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)



Assessment of Submergence tolerant rice Varieties



Assessment of Herbicides for weed management



Management of BPH & WBPH



Sulphur application in tomato



Demonstration on bypass fat feeding



Training on Vermicompost production



Demonstration of application of Micro-nutrient mixture for increasing fruit yield in Okra



Demonstration of Yard Long Bean variety "Arka Mangala" for higher yield



Demonstration of production technology of Vermicompost



Demonstration of production of paddy straw mushroom with threshed straw

ANNEXURE-I

PROCEEDINGS OF THE 15th SAC MEETING, KVK, JAGATSINGHPUR

The 15th SAC meeting of KVK, Jagatsinghpur was held on dated. 14.01.2020 at 10.00 am in KVK premises under the chairmanship of Prof. Pravat Kumar Roul, DEE, OUAT, Bhubaneswar. The members present in the meeting are annexed herewith. The welcome address was given by Dr. Biswa Ranjan Pattanaik, Senior Scientist & Head, KVK, Jagatsinghpur to all the members with bouquet of flowers. The Hon'ble Chairman of the committee inaugurated the meeting by lighting the lamps.

After a small introductory remark, the chairman advised the Senior Scientist & Head to present the achievements and proceedings (Action taken report) of the last SAC as per the agenda.

Agenda-1: Approval of the proceedings of last meeting.

The Senior Scientist & Head of KVK, Jagatsinghpur presented the achievements of KVK for the year Kharif 2019 and Rabi 2019-20. He also presented the proceedings of the 14th SAC held on 12.12.2018 in brief. The Chairman with the consent of all the members of the SAC approved the proceedings.

Agenda-2: Action taken on the recommendations of the 14th SAC meeting

The Senior Scientist & Head presented the following actions taken by the KVK as per the recommendations of the last SAC meeting.

SUGGESTIONS	ACTIONS TAKEN
Suitable low land water submergence tolerant rice varieties may be taken.	Assessment of submergence tolerant rice varieties- Swarna sub 1 and CR1009 sub 1
Training should be given on problem soil management.	Training programme on Salinity management conducted at village-Achyutdaspur and Japa in Ersama block.
Manual weeding is expensive in transplanted rice. Suitable herbicide may be applied.	Assessment of herbicides (Bispyribac sodium 10 SC and Amix 20 WP) for weed control in transplanted rice
BPH and WBPH in rice is a major problem.	Demonstration of management of BPH and WBPH in rice
Wilting in brinjal is a problem.	Demonstration of Integrated management of wilt complex in brinjal
Low yield in Green gram	Demonstration on INM in Green gram
Low keeping quality and dull colour of tomato due to sulphur deficiency.	Demonstration on sulphur application in medium land tomato
Late maturity in heifers.	Demonstration on bypass fat feeding and mineral mixture supplementation for early sexual maturity in heifers at Bagoi & Gamhapur village.
Popularization of fodder cultivation for dairy.	Demonstration on Hybrid Napier (CO-4) fodder production in dairy farming.
YVMV problem in Green gram	Demonstration of Integrated management of YVMV in green gram
Training on Vermicomposting and Organic farming should be taken up by KVK	Training programme conducted at village- Gamhapur

Organic vegetable cultivation may be initiated in KVK in a small area	A Nutritional garden has been established with organic inputs
During distribution of soil health card, the officials of line department may be included.	On 5 th December,2019 World Soil Day was organized jointly with Agriculture department.
Farmers should be counseled on the right time and right dose of pesticides as prevention is better than cure.	KMAS is being sent every month
Green manuring in rice may be taken up./ Management of Acidic & Saline soil	Demonstration on Green manuring of Dhaincha for salinity management in rice
IMC production should be doubled	Demonstration of “Jayanti Rohu” in composite carp culture for more yield and Demonstration of Amur carp in composite pisciculture
YVMV in green gram is a major problem in the district.	Demonstration of Integrated management of YVMV in green gram
Discolouration, cracking and poor quality of curd in cauliflower.	Assessment of Sulphur and Boron application in Cauliflower
FLD on Vermicompost production may be undertaken	Demonstration of production technology of Vermicompost has been undertaken in village-Nimakana, Gamhapur, Gobindapokhari and Japa.
Less oil content and poor quality pod in Groundnut	Demonstration on Secondary and micro nutrient(Sulphur and Boron) application in Groundnut
Weeding in brinjal by farm women is a tedious process	Demonstration of Wheel Cycle Weeder in Brinjal for drudgery reduction of farmwomen
Khaira disease of rice	Assessment of zinc deficiency in lowland rice
Low yield of paddy straw mushroom	Assessment of humidity/moisture management in paddy straw mushroom in low temp.
Farmers getting low price of milk due to low fat percentage	Assessment of bypass fat feeding for increasing milk production in dairy cows conducted at Gamhapur, Bagoi, saharadia & Mohammadabad and Goram Village
Sheath Blight in rice is a problem	Assessment of Integrated practices of management of Sheath Blight in rice
Malnutrition in members of farm family	Demonstration of nutritional garden for Improving Nutritional Security of farm family
Stunted growth of chickens in backyard poultry	Comparative assessment of multi-enzyme mixture and probiotics on growth of chickens in semi intensive system of rearing conducted at Saharadia, Bagoi, Gamhapur village
Small size curd and low yield in cauliflower	Demonstration of Arka Microbial Consortium (Microbial Plant Growth Promoters) for enhancing yield in Cauliflower
Deficiency of micro-nutrients in vegetables	Demonstration of application of Micro-nutrient mixture for increasing fruit yield in Okra
Seedling raising in coco peat may be tried	Assessment of different methods of portray nursery raising for quality seedling production in tomato
Yard long bean is being widely cultivated. Suitable variety may be tried	Demonstration of Yard Long Bean variety “Arka Mangala” for higher yield

Drumstick is rich in iron. Suitable variety for Jagatsinghpur district may be tried	Assessment of drumstick varieties (Bhagya and PKM-1) for higher yield in drumstick
Popularize Salt tolerant Varieties like Luna Sampad in saline areas	One varietal trial has been initiated at KVK farm for multiplication of seeds. Rice seeds of different salt tolerant varieties has been distributed during kharif season. Training programme conducted at Japa village

Agenda-3: Achievements made by KVK

The overall achievement made by KVK, Jagatsinghpur was presented by the Senior Scientist & Head, KVK for Kharif 2019 and Rabi 2019-20. The Senior Scientist & Head presented in brief about the achievements of KVK for the said period. The KVK has conducted 53 nos. of training programmes for practicing farmers/ farm women with 1610 trainees, 03 nos. for Rural youths with 60 trainees and 01 nos. of In-service trainings with 20 trainees. The KVK has also conducted 12 no. of OFTs, 18 no. of FLDs in farmer's field during Kharif 2019 and Rabi 2019-20 and a total of 1272 nos. of extension activities.

Detail discussions were made by the members on the achievements made by KVK and appreciated.

Agenda-4: Action Plan and Suggestions made by the members present

Action plan for the year-2020(January-December) is going to be prepared during this month. The Chairman requested the members for suggestion.

A. During the discussion, Hon'ble DEE, OUAT, Bhubaneswar emphasized that outreach should be more and to cover all blocks with linkage with Line departments. The other valuable suggestions given by him were:-

- Training on specific problem should be conducted in a particular village whereas training on generalized problems should be conducted at KVK campus and at different villages affected by that problem.
- Integrates approaches for pest and Nutrient management should have a combination of all management practices like Cultural methods, Chemical methods and Biological methods instead of a single method of approach.
- Awareness training on management practices to check kid mortality should be taken up.
- Rice var. Luna Sampad may be multiplied at village level.
- Programmes on use of Bypass fat should be focused on progressive dairy farmers having high yielding cows.
- More than one number of parameters may be studied for drudgery reduction programmes.
- Parameter on Flowering time may be taken in Drumstick OFT.
- Curd diameter and curd weight parameter to be taken in assessment of Sulphur and Boron for curd quality and higher yield in cauliflower.
- Awareness programme for use of Sulphur may be taken up.
- Help of Fishery department should be sought for training and demonstration programmes at KVK.
- For promotion of rearing of Kadaknath, district hatchery should produce day old Kadaknath chicks and KVK and OLM may collaborate to popularize this breed on a wider scale.
- KVK-Puri has developed "Mushroom app" which may be popularized.
- For attracting youth towards Agriculture focus should be on profitable agricultural ventures such as Animal Husbandry, Fishery, Horticulture and use of Farm machinery, IT in Agriculture.

B. Dr. Kalyan Sundar Das, Principal Scientist, ICAR-ATARI, Kolkata suggested the followings:-

- Action taken report on previous SAC recommendations should have quantifiable data particularly with respect to trainings.

- While designing OFT on bypass fat feeding the basic ration of cows in all the replicates should be as much similar as possible.
 - The description of technology in technological options should be in brief.
 - FLD should be given in abstract form.
 - No. of trainees per KVK should be at least 2500 from 100 trainings for full scientific staff strength.
 - OFT programme may be designed for improving growth rate of Kadaknath through feed supplementation.
 - SAC meeting should be completed in April-June.
 - Network KVKs may involve scientists of a discipline with limited manpower on a sharing basis.
 - Based on opportunity KVK should focus on one commodity and make that an identity for itself.
 - Documentation of all work should be done.
 - Market linkage should be emphasized.
- C. Dr. G.A. K. Kumar, Head, Social Science Division, NRRI, Cuttack suggested the followings:-
- Use of media for awareness creation activity on a wide scale throughout the district.
 - Use of NRRI technologies such as Customized Leaf colour chart (CLCC), Rice expert app should be popularized.
 - Rural youths with innovative ideas in Agricultural field may be identified and linked to Agri-business incubation center at NRRI for availing grants offered by central and state govt.
- D. The Chief District Agriculture Officer, Jagatsinghpur suggested that Sikha and Virat are two varieties of Greengram resistant to YVMV. Cyclone and Unseasonal rainfall are major problems of the district. So varieties and practices resilient to these problems should be tested and demonstrated. Rural youths should be exposed to income generating potential of agriculture to attract them towards it. They may be encouraged to develop knowledge seeking tendency and laborious attitude in addition to use of information technology devices. Till now non-availability of YVMV resistant variety of Greengram continues to be a problem for the district. TMV-2 variety of Greengram needs to be improved. Method of soil sample collection from grid have been revised and farmers should be encouraged to follow fertilizer application as per soil health card recommendation based on soil sample test results of revised grids.
- E. The Asst. Director of Horticulture, Jagatsinghpur suggested to popularize Onion cultivation to meet the market demand. Due to marketing constraints, demonstration on Rose cultivation may be reconsidered. Under MIDH programme, project on Mushroom spawn production project can be given. Polyhouse, Shade net house and Vermicompost may be demonstrated in KVK adopted villages for visitors. Farmers may be sensitized to avail subsidy from Horticulture departments. Transportation of Paddy straw mushroom to distant places by conventional method is a problem due to the perishable nature of the produce. So new technology may be explored to extend the shelf-life of mushroom.
- F. Dr. Sasanka Sekhar Lenka, Nodal Office, O/O The CDVO, Jagatsinghpur suggested that including value addition of dairy products in training programmes could be useful to dairy farmers. District Poultry hatchery may produce Kadaknath chicks if it is included in the low input technology poultry breeds approved by DAHD, Govt. of India. Fodder cultivation should be promoted through training and demonstration programmes.
- G. Mr. S. K. Dash, District Fisheries Officer, Jagatsinghpur suggested that to attract rural youths towards Agriculture fishery should be promoted as marketing is not a constraint in this sector. Training and demonstration activities may be up scaled and should include participation of district fishery department in a need based manner. Govt. schemes relating to fishery sector should be elaborated during KVK training programmes.
- H. Mr. Jugal Kishore Panda, Programme Officer, AIR, Cuttack thanked KVKs of the coastal districts for their active participation in different agriculture related programmes being broadcasted from AIR, Cuttack. He suggested the continuation of this association and stressed on designing topics on organic farming for health and environmental benefits. Novel and less explored allied agricultural activities such as apiculture, biofloc technology in fishery and integrated fish farming should be promoted.

- I. Mrs. Priyansi Nayak, DPM, Odisha Livelihood Mission, Jagatsinghpur said that GPLFs in Jagatsinghpur have been financially assisted to the tune of 3.5 lakhs. This fund is intended for livelihood generation activities including agriculture. The members are interested in mushroom cultivation, poultry rearing and nutritional gardening. KVK may link with OLM to assist the GPLFs in these areas.
- J. Mr. Akshya Kumar Nayak, Small farmer, Village-Mohammadabad suggested reintroduction of old well performing varieties of rice such as Moudamani. He suggested diversifying Agriculture and allied activities for income security. To attract rural youth to agriculture bank finance should be extended to them. Environmental and Social problems like Monkey and Bull menace in agriculture should be taken care of by govt. Mushroom and Apiculture activities should be promoted and up scaled for income generation.
- K. Mr. Nrusingha Charan Behera, Big farmer, Village-Saharadia suggested that bank finance is a problem for farmers. There is need to aware farmers about use of Gypsum and paper mill sludge. Communication gap is there in awareness to farmers about soil test. For this support from line department is required.

Agenda-5 : Concluding remarks by the Hon'ble Chairman

The Hon'ble Chairman thanked all the members for sharing their valuable suggestions and suggested the KVK to increase the outreach and coverage of the institute (i.e. cover all the blocks). Youth mayn be attracted towards Agriculture if we can highlight the income generating potential of Horticulture, Veterinary, Fishery sector as well as Integrated farming system. Assessment of green gram varieties should be done in the KVK farm and the most suitable varieties may be taken up in the seed production programme to meet the demand of the farmers. Quality seed production of Green gram should be carried out in the KVK farm to meet the demand of the farmers in the district. The successful farmer in a particular field should be selected for giving training to other farmers as farmer believes a farmer more than a government officer.

Agenda-6 : Constraints of KVK

- Vacant post of Computer Programmer
- Vacant post of Accountant / Superintendent
- Damaged Threshing floor
- Small size of Godown (390 sq ft)
- Water stagnation due to improper drainage facility.
- Narrow and small training hall
- No concrete road from the Farmers Hostel to different demonstration units.

The meeting was concluded with vote of thanks by Mrs. Sarita Das, Prog. Asst.(Fishery) of KVK, Jagatsinghpur.

List of Participants:

Sl. No.	Name & Designation	Status
1	Prof. Pravat Kumar Roul, DEE, OUAT, Bhubaneswar	Chairman
2	Dr. G.A. K. Kumar, Head, Social Science Division, NRRI, Cuttack	Member
3	Dr. Kalyan Sundar Das, Principal Scientist, ICAR-ATARI, Kolkata	Member
4	Dr. R. N. Mohapatra, Chief District Agriculture Officer, Jagatsinghpur	Member
5	Dr. Sasanka Sekhar Lenka, Nodal Office, O/O The CDVO, Jagatsinghpur	Member
6	Mr. S. K. Dash, District Fisheries Officer, Jagatsinghpur	Member
7	Mr. Biswa Ranjan Mohanty,DDM,NABARD,Jagatsinghpur	Member
8	Mr. S. K. Patra, LDM, Jagatsinghpur	Member
9	Mr. Mihir Samantaray, ADH, Jagatsinghpur	Member
10	Mrs. Priyansi Nayak, DPM, Odisha Livelihood Mission, Jagatsinghpur	Member

11	Mr. Jugal Kishore Panda, Programme Officer, AIR, Cuttack	Member
12	Mrs. Laxmipriya Nayak, Member Secretary, UTSHARGA-NGO	Member
13	Mr. Anil Kishore Mohanty, S.C.O., Jagatsinghpur	Member
14	Mr. Nrusingha Charan Behera, Progressive farmer, Village-Saharadia	Member
15	Mr. Ashok Choudhury, Progressive farmer, Village-Bagoi	Member
16	Mr. Gopal Charan Pattanaik, Progressive farmer, Village-Dhinkia	Member
17	Mr. Akshya Kumar Nayak, Progressive farmer, Village-Mohammadabad	Member
18	Dr. Sanjaya Kumar Mohanty, SS&Head, KVK-Puri	Invitee
19	Dr. Surya Narayan Mishra, SS&Head, KVK-Kendrapada	Invitee
20	Dr. Biswa Ranjan Pattanaik, Senior Scientist & Head, KVK, Jagatsinghpur	Member Secretary



Senior Scientist & Head,
KVK, Jagatsinghpur