

## **PROFORMA FOR ANNUAL REPORT 2021 (January-December 2021)**

### **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, Jashipur At- Angarpada, P.O- Khairi, Mayurbhanj, Pin - 757091	9437584356	-	<a href="mailto:kvkmayurbhanj2.ouat@gmail.com">kvkmayurbhanj2.ouat@gmail.com</a> <a href="mailto:kvkmayurbhanj2@yahoo.com">kvkmayurbhanj2@yahoo.com</a>

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

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology, At- Siripur, Bhubaneswar-751003	0674-2397 970/ 2397818/ 2397719	0674-239797 0	<a href="mailto:registrarouat@gmail.com">registrarouat@gmail.com</a>

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Deepak Kumar Mohanty		7978953120, 9437237790	<a href="mailto:dmohanty2003@gmail.com">dmohanty2003@gmail.com</a>

#### 1.4. Year of sanction of KVK: **April 2012**

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

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent/Temporary	Category (SC/ST/OBC/Others)
1	Senior Scientist & Head	Dr. Deepak ku. Mohanty.	Senior Scientist & Head	Agriculture Engineering	15600-39100 AGP-.8000/- (23230)	16.05.2018	Temporary	Gen
2	Subject Matter Specialist	Dr. Jagannath Patra	Scientist (Agriculture Extension)	Agriculture Extension	15600-39100 AGP-.6000/- (25780)	17.02.2005	Temporary	Gen
3	Subject Matter Specialist	Govinda Chandra Dhal	Scientist (Agriculture Engineering)	Agriculture Engineering	15600-39100 AGP-.6000/- (22220)	09.11.2009	Temporary	OBC
4	Subject Matter Specialist	Mrs. Bidyutlata Mallick	Scientist (Home Science)	Home Science	15600-39100 AGP-.6000/- (22220)	28.10.2009	Temporary	ST
5	Subject Matter Specialist	Vacant						
6	Subject Matter Specialist	Vacant						
7	Subject Matter Specialist	Vacant						
8	Programme Assistant	SatyaNiranjan Mishra	Prog. Asst. (Horticulture)	Horticulture	9300-34800 AGP-.4200/- (11940)	30.07.2012	Temporary	Gen
9	Computer Programmer	Sk. SamsulHoda	Prog. Asst. (Computer)	Computer Sc.	9300-34800 AGP-.4200/- (15680)	30.01.2006	Temporary	Gen
10	Farm Manager	Debashis Panda	Farm Manager	Plant Protection	9300-34800 AGP-.4200/- (10560)	03.02.2015	Temporary	Gen
11	Accountant / Superintendent	Vacant						
12	Stenographer	SadanandaMohanta	Jr. Steno-cum-Comp. Operator		5200-20200 AGP-.2400/- (8490)	16.10.2006	Temporary	OBC
13.	Driver	Sanjay Kumar Das	Driver-cum-Mechanic		5200-20200 AGP-.1900/- (7400)	23.07.2008	Temporary	Gen
14.	Driver	SansayaNayak	Driver-cum-Mechanic		5200-20200 AGP-.1900/- (7400)		Temporary	
15.	Supporting staff	BararamBarik	Group-D		4750-14680 AGP-.1700/- (5550)	24.11.2014	Temporary	OBC
16.	Supporting staff	LaxmanNayak	Group-D		4750-14680 AGP-.1700/- (5550)	01.01.2015	Temporary	ST

1.6. Total land with KVK (in ha)



## B) Vehicles- Not available

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status

## C) Equipment &amp; AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
<b>a. Lab equipment</b>				
<b>b. Farm machinery</b>				
Tractor	2016	5,29,845	Working Condition	ICAR
Power tiller	2016	1,55,500	Working Condition	ICAR
Paddy transplanter	2016	1,92,000	Working Condition	ICAR
<b>c. AV Aids</b>				
LCD Projector	2017-18	40,500	Working Condition	ICAR
LCD Projector	2016-17	43848	Working Condition	ICAR
Digital Camera	2016-17	13,750	Working Condition	ICAR
Digital Camera	2017-18	14,975	Working Condition	ICAR
Video Camera	2017-18		Working Condition	ICAR

## D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Battery operated power sprayer				
Rotavator	2016	96,900	Good	ICAR
Brush cutter	2017	12,780	Good	ICAR
Tractor drawn leveller	2017	14,800	Good	ICAR
Diesel pump set (1.5 HP)	2017	14,600	Good	ICAR

1.8. Details SAC meeting\* conducted in the year: Not conducted in between Jan, 2021 to Dec, 2021: NA

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason

\* 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	<ul style="list-style-type: none"> <li>● Paddy-fallow, Maize-fallow. Pigeon pea-fallow, Black gram-fallow</li> <li>● Paddy – Green gram, Animal Husbandry</li> <li>● Paddy + Animal Husbandry,</li> <li>● Paddy -Vegetable, Paddy - Chick pea, Vegetable-vegetable</li> </ul>																								
2	Agro-climatic Zone	North Central Plateau																								
3	Agro ecological situation	AES-I, AES-II, AES-IV																								
4	Soil type	Sandy loam, Red lateritic, Silty loam, Red & Yellow, Mixed Red & Black																								
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	<table border="1"> <thead> <tr> <th><u>Name of the Crop</u></th> <th><u>Area (ha)</u></th> <th><u>Yield (q/ha)</u></th> </tr> </thead> <tbody> <tr> <td colspan="3"><b><u>Kharif</u></b></td> </tr> <tr> <td>Paddy</td> <td>2,94,725</td> <td>29.70</td> </tr> <tr> <td>Maize</td> <td>6,737</td> <td>40.14</td> </tr> <tr> <td>Arhar</td> <td>8,380</td> <td>09.12</td> </tr> <tr> <td colspan="3"><b><u>Rabi</u></b></td> </tr> <tr> <td>Chickpea</td> <td>7,580</td> <td>07.25</td> </tr> <tr> <td>Ground nut</td> <td>10,175</td> <td>15.06</td> </tr> </tbody> </table>	<u>Name of the Crop</u>	<u>Area (ha)</u>	<u>Yield (q/ha)</u>	<b><u>Kharif</u></b>			Paddy	2,94,725	29.70	Maize	6,737	40.14	Arhar	8,380	09.12	<b><u>Rabi</u></b>			Chickpea	7,580	07.25	Ground nut	10,175	15.06
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6	Mean yearly temperature, rainfall, humidity of the district	41.2(Max), 8.4(Min), 1648.2 mm in 77 rainy day																								
7	Production of major livestock products like milk, egg, meat etc.	<table border="1"> <thead> <tr> <th><u>Name of commodity</u></th> <th><u>Area (ha) / No.</u></th> <th><u>Total Production</u></th> </tr> </thead> <tbody> <tr> <td>Dairy</td> <td>9,36,149 nos</td> <td>Milk-12.52 m lit</td> </tr> <tr> <td>Poultry</td> <td>26,71,290 nos</td> <td>Egg-104.62 m</td> </tr> <tr> <td>Goatery</td> <td>6,86,785 nos</td> <td></td> </tr> <tr> <td>Pisciculture</td> <td>Ponds- 26980 nos Water spread area- 15347 ha</td> <td>Productivity- 1.07 q/ha</td> </tr> </tbody> </table>	<u>Name of commodity</u>	<u>Area (ha) / No.</u>	<u>Total Production</u>	Dairy	9,36,149 nos	Milk-12.52 m lit	Poultry	26,71,290 nos	Egg-104.62 m	Goatery	6,86,785 nos		Pisciculture	Ponds- 26980 nos Water spread area- 15347 ha	Productivity- 1.07 q/ha									
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Note: Please give recent data only

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

Name of village	Block	Geog. Area	Cultivable Area	Cultivated Area	Paddy Area			Area under Irrigation
					High	Med	Low	
Badsole	Jashipur	40244	20835	20100	121	8930	2249	2964
Sialinai	Karanjia	46625	19052	18998	1144	4875	3682	2933
Godapalsa	Raruan	21219	17574	15127	1234	4209	2674	1904
Chadripahadi	Jashipur	1045	909	896	191	484	222	203
Jhumkakudar	Karanjia	161	89	88	33	46	9	24
Kashipal	Jashipur	1071	967	942	281	507	152	114

### 2. c. Details of village adoption programme:

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

Name of village	Block	Action taken for development
Nuagaon	Karanjia	• Bench mark survey, Group meeting, FLD, OFT, Training programme, Awareness programme
Askipal	Sukruli	• Bench mark survey, Group meeting, FLD, OFT, Training programme, Awareness programme
Jhumkakudar	Karanjia	• Bench mark survey, Group meeting, FLD, OFT, Training programme, Awareness programme
Badbil	Jashipur	• Bench mark survey, Group meeting, FLD, OFT, Training programme, Awareness programme
Kaptira	Jashipur	• Bench mark survey, Group meeting, FLD, OFT, Training programme, Awareness programme

### 3. TECHNICAL ACHIEVEMENTS

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

OFT												FLD															
No. of technologies tested:												No. of technologies demonstrated:															
Number of OFTs				Number of farmers								Number of FLDs				Number of farmers											
Target	Achievement			Target	Achievement				Target	Achievement			Target	Achievement													
					SC	ST		Others		Total						SC	ST		Others		Total						
					M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T			
4	4			26	0	3	6	9	6	2	12	14	26	15	15			170	5	1	58	57	45	4	108	62	170

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					SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	T	
56	56	1380	51	177	138	131	420	447	609	755	1380	75	75	1800	155	146	444	350	571	440	870	936	1806										

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
60	60	0	0	0	10	0	16	0	26	26	1800	1806	0	0	1	1	3	3	4	4	8

Seed production (q)					Planting material (in Lakh)				
Target		Achievement			Target		Achievement		
90.0		84.2			50.000		48,100		

Livestock strains and fish fingerlings produced (in lakh)*			Soil, water, plant, manures samples tested (in lakh)		
Target		Achievement	Target		Achievement
2000		600			

\* 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	1	500					
Popular Articles	1	Mass					
Book Chapter							
Extension Pamphlets/ literature	3	1500					
Technical reports	4	50					
Electronic Publication (CD/DVD etc)							
TOTAL	9	2050					

1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On Farm Trial	<b>Assessment of in situ soil moisture conservation methods on performance of Tomato</b>
2.	Problem diagnosed	loss of water from open crop field by using local organic mulching
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO <sub>1</sub> - Ridge and furrow method of irrigation + organic mulching TO <sub>2</sub> - Broad bed furrow method of irrigation TO <sub>3</sub> - Broad bed furrow method of irrigation + organic mulching
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT, 2017
5.	Production system and thematic area	Water Conservation
6.	Performance of the Technology with performance indicators	Yield (q/ha), Cost of irrigation (Rs/ha), Irrigation interval (day), Cost savings (%), Plant height, Wt of fruits per plant(kg)

7.	Final recommendation for micro level situation	Organic mulching with both furrow/ridge and broad bed furrow methods of irrigation fetches more yield in tomato. Hence mulching in tomato may be encouraged.
8.	Constraints identified and feedback for research	Nil
9.	Process of farmers participation and their reaction	Farmers appreciated this technology to reduce the water loss from open crop field by using local organic mulching

### *Thematic area: Soil and Water conservation*

Problem definition: More water loss in open irrigated fields

Technology assessed: TO<sub>1</sub> - Ridge and furrow system + organic mulching, TO<sub>2</sub> - Broad bed furrow system, TO<sub>3</sub> - Broad bed furrow system + organic mulching

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7					180	93000	180000	87000	1.93
TO <sub>1</sub>						250	95000	250000	155000	2.63
TO <sub>2</sub>						228	90000	228000	138000	2.53
TO <sub>3</sub>						240	93500	240000	146500	2.56

### OFT-2

1.	Title of On Farm Trial	Assessment of poultry breed in backyard
2.	Problem diagnosed	Low productivity and high mortality of desi breed
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO <sub>1</sub> -Backyard rearing of poultry breed Aseel  TO <sub>2</sub> - Backyard rearing of poultry breed Kadaknath

4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CARI, Odisha, Jhabua
5.	Production system and thematic area	Evaluation of breed
6.	Performance of the Technology with performance indicators	B.C. Ratio, age of sexual maturity, Additional income
7.	Final recommendation for micro level situation	First preference is Aseel due to more market demand than Kadaknath
8.	Constraints identified and feedback for research	Though there is more nutritional value in Kadaknath but market value is less
9.	Process of farmers participation and their reaction	Satisfied with the growth and income from Aseel breed of poultry

*Thematic area:* Evaluation of breed

Problem definition: Low productivity and high mortality of desi breed

Technology assessed: TO<sub>1</sub> -Backyard rearing of poultry breed Aseel, TO<sub>2</sub>- Backyard rearing of poultry breed Kadaknath

Table:

Technology Options	No. of trials	Body weight, Male(kg)	Body weight, Female(kg)	Egg laying (Nos.)	Mortality, %	Cost of cultivation (Rs./10 no bird )	Gross return (Rs./10 no bird )	Net return (Rs./10 no bird )	BC ratio
FP	7	1.1	0.8	62	45	1800	5781	3981	2.2
TO1		2.4 (118%)	1.5 (87.5%)	78 (25.8%)	20	4030	15450	11420	2.9
TO2		1.2 (9%)	1.0 (25%)	87 (40.3%)	15	4050	14240	10190	2.5

### OFT-3

1.	Title of On farm Trial	Assessment of CRIJAF weeder for intercultural operation in Ragi
2.	Problem diagnosed	More cost and drudgery in manual weeding
3.	Details of technologies selected for assessment/refinement	TO1-Weeding by manual cycle weeder, TO2-Weeding by manual wheel finger weeder, TO2-Weeding by CRIJAF weeder

4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CRIJAF,2018
5.	Production system and thematic area	Rainfed up land ,Farm mechanization
6.	Performance of the Technology with performance indicators	Field capacity(ha/h): FP= 0.0025, TO <sub>1</sub> =0.010,TO <sub>2</sub> =0.015,TO <sub>3</sub> =0.016, Weeding efficiency (%): FP=95.4, TO <sub>1</sub> =80.1,TO <sub>2</sub> =83.5,TO <sub>3</sub> =85.4,Yield(q/ha): FP= 14.92, TO <sub>1</sub> =15.0,TO <sub>2</sub> =15.4, TO <sub>3</sub> =15.36
7.	Final recommendation for micro level situation	CRIJAF weeder gave better result in terms of FC, cost of weeding etc. along with cycle weeder supplied by Millet mission. Easy to operate due to short wheel than cycle weeder.
8.	Constraints identified and feedback for research	More research on weeder in ragi in all type of soils
9.	Process of farmers participation and their reaction	Farmers appreciated this technology to reduce cost of weeding

*Thematic area: Farm mechanization*

Problem definition: More cost of manual weeding and scarcity of labour

Technology assessed: TO<sub>1</sub>- Weeding by wheel finger weeder, TO<sub>2</sub>-Weeding by cycle weeder, TO<sub>3</sub>-Weeding by CRIJAF weeder

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	5					14.92	28500	49236	20736	1.72
TO <sub>1</sub>						15.2	23100	49566	26466	2.14
TO <sub>2</sub>						15.4	23000	49632	26632	2.15
TO <sub>3</sub>						15.5	22500	49665	27165	2.20

OFT-4

1.	Title of On Farm Trial	Assessment of high yielding species of oyster mushroom in extreme cold below 20 degree C
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2.	Problem diagnosed	Low yield during extreme cold due to non availability of suitable cold tolerant species/ varieties of oyster mushroom.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO1 -Oyster mushroom cultivation species by using <i>Pleurotus Florida</i> TO2- Oyster mushroom cultivation species by using <i>Hypsizygos Ulmarius</i>
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	CTMRT, OUAT,2012
5.	Production system and thematic area	Mushroom Production
6.	Performance of the Technology with performance indicators	Pin head appearance (days),Biological efficiency (%),yield (kg/bed),BC Ratio
7.	Final recommendation for micro level situation	Yield of oyster mushroom species / variety <i>Hypsizygos Ulmarius</i> performance is better than other species.
8.	Constraints identified and feedback for research	--
9.	Process of farmers participation and their reaction	Farmer are adopting oyster mushroom species var- <i>Hypsizygos Ulmarius</i> in extreme cold below 20 degree C

### *Thematic area: Mushroom cultivation*

Problem definition: Low yield during extreme cold due to non availability of suitable cold tolerant species/ varieties of oyster mushroom.

Technology assessed: TO1 -Oyster mushroom cultivation species by using *Pleurotus Florida*, TO2- Oyster mushroom cultivation species by using *Hypsizygos Ulmarius*

Table:

Pin head appearance (days)		Biological efficiency (%)		Yield (kg/bed)		Increase over FP (%)	Net Income (Rs/kg)/10 no bed		B.C .ratio	
OFT	FP	OFT	FP	OFT	FP		OFT	FP	OFT	FP
TO <sub>1</sub> : 20	19	TO1: 70	90	TO <sub>1</sub> :2.1	1.8	16.6	TO <sub>1</sub> :1700	1400	TO1: 3.3	2.5
TO <sub>2</sub> : 15		TO2: 60		TO <sub>2</sub> :2.7		50	TO <sub>2</sub> :2300		TO2: 4.7	

Results:

**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.	Maize	IPM	Spraying of Beauveria bassiana @ 400g/ Ac and dusting of chloropyriphos on field bond	2.0	2.0	-	-	5	3	2	-	7	3	10	-
2.	Maize	Varietal evaluation	Hybrid Maize variety – Kalinga Raj (OMH 14-27) , Full package of practices (Pre and post emergence herbicides, need based insecticides, STBF and farm mechanization)	5.0	5.0	-	-	12	3	-	-	12	3	15	-
3.	Mustard	IPM	Spraying of Azadirachtin 0.15 % and Acephate + Fenvalerate 0.028 %	1.0	1.0	1	-	6	-	3	-	10	-	10	-
4.	Tomato	Varietal evaluation	Triple disease resistant tomato variety – Arka Rakshak	0.4	0.4	-	-	5	1	4	-	9	1	10	
5.	Cowpea	Drip irrigation	Drip irrigation with mulching in cowpea	0.4	0.4	2	-	5	-	3	-	10	-	10	
6.	Cauliflower	INM	STBF+ seed treatment with Arka Microbial Consortium @ 10gm/100gm seed+ soil application with 5kg AMC mixed with 500kg FYM	0.4	0.4	-	-	5	-	5	-	10	-	10	
7.	Sweet potato	Varietal evaluation	Cultivation of HYV sweet potato variety – Kishan	0.4	0.4	-	-	3	-	7		10	-	-	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O					
Maize	Kharif	RF	Sandy loam	Low	Low	Low	Fallow	25.05.2021	20.09.2021	746	58
Maize	Kharif	RF	Sandy loam	Low	Low	Low	Fallow	12.06.2021	30.09.2021	746	58
Mustard	Rabi	Irrigated	Sandy loam	Low	Low	Low	Rice	15.12.2020	10.03.2021	273	17
Tomato	Rabi	Irrigated	Sandy loam	Low	Low	Low	Vegetable	27.11.2020	23.01.2021	273	17
Cowpea	Rabi	Irrigated	Sandy loam	Low	Low	Low	Vegetable	20.11.2020	19.01.2021	273	17
Cauliflower	Rabi	Irrigated	Sandy loam	Low	Low	Low	Vegetable	25.11.2020	20.01.2021	273	17
Sweet potato	Kharif	RF	Sandy loam	Low	Low	Low	Fallow	20.06.2021	18.09.2021	840	61

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

#### Cereals:

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
Maize	IPM	Applying <i>Beauveria bassiana</i> @ 400 gm/acre. Apply 1.5% Chloropyrifos dust thickly in the field bund for avoiding migrating from one field to another field	10	2.0	35.2	30.3	16	41460	63360	21900	1.53	40250	54540	14290	1.35
Maize	Varietal evaluation	Hybrid Maize variety – Kalinga Raj (OMH 14-27), Full package of practices (Pre and post emergence herbicides, need based insecticides, STBF and farm mechanization)	10	5.0	52	30	74	49800	93600	43800	1.88	40600	54000	13400	1.33





Pigerry																		
Sheep and goat																		
Duckery																		
Others (pl.specify)																		
Total																		

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

\*\* BCR= GROSS RETURN/GROSS COST

Fisheries : NA

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

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

\*\* BCR= GROSS RETURN/GROSS COST

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Paddy mushroom	Earthen floor by covering the floor with 6 inch sand in moist condition and spreading wet gunny bag along the windows/wall	10	10	Pin head appearances-8day	Pin head appearances-8day		80	53.3	900	2400	1500	1.66	800	1600	800	1.0

Oyster mushroom	Demonstration on mushroom cultivation	20	200 oyster spawn bottle	Pin head appearances-17 to18days			360kg/200bed		7000	28000	21800	4.0				
Oyster mushroom		20	200 paddy spawn bottle	Pin head appearance 8-9days			170kg/200bed		12000	34000	22000	2.8				
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Total																

Nutritional Garden	A nutritional garden with trellis structure, vermi compost unit, pro tray for seedling raising in facilitate production of vegetables round the year and improve nutrient intake at house hold level	05	05	297 family member/day (g)	145 family member/day (g)	104.8	765kg Yield/year in 0.02 ha (kg)	480kg Yield/year in 0.02 ha (kg)	11340/	15300/	3960/	2.0	5620/	8440/	2820/	1.50
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\* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

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

Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women	Demonstration on Flexible rotary maize sheller in maize crop for drudgery reduction	Use of Flexible rotary maize sheller in maize crop for drudgery reduction	Output: 65 Kg/hr Energy consumption: 5.27 Kj/min	17 kg/hr, 9.41 Kj/min	Reduces pain in wrist and finger save time & energy after use of flexible maize sheller.

			Pulse rate: 88 Beat/min	114 Beat/min	
Pregnant women					
Adolescent Girl					
Other women					
Children					
Neonatal					
Infants					

## Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)			% change in major parameter	Labor reduction (man days)	Cost reduction (Rs./ha or Rs./Unit)
					Parameters	Demonstration	Check			
Power operated ragi thresher	Finger millet	Demonstration on ragi thresher cum peeler(Operated by 1 hp electric motor)	10	-	Output(Kg/h)	75	7	90.67	11	Rs348.5 per q
Single row vegetable transplanter	Cauliflower	Manually operated, single row vegetable transplanter	10	0.4	<ul style="list-style-type: none"> <li>No of Seedlings Transplanting per minute. in standing position</li> <li>Man power</li> <li>Cost :of transplanting 1000 nos. of vegetable seedling</li> </ul>	12 nos. 1no. Rs.80	5nos. 3nos. Rs240	58.34 66.67 66.6	2	Rs160 per 1000 seedling transplantation
Power operated mini dal mill	arhar	Power operated mini dal mill	10		<ul style="list-style-type: none"> <li>Milling capacity,kg/h</li> <li>Cost of milling,Rs/kg</li> </ul>	29.04 3.39	4.6 7.68	531.30 55.85		4.29 per kg
Two rows vegetable transplanter	cauliflower	Manual operated two rows vegetable trans planter	10		<ul style="list-style-type: none"> <li>No of Seedlings Transplanting per minute. in standing position,(nos)</li> <li>Man power,(no)</li> <li>Cost :of transplanting 1000 nos. of vegetable seedling(Rs)</li> </ul>	26 1 42	5 3 246	420 66.67 82.92		Rs204 per 1000 seedling transplantation

\* 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





		21.12.2021	1	30	Use of manual double row vegetable transplanter
3.					

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2021 and Rabi 2021-2022:**

**A. Technical Parameters:**

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1	Crop I-Mustard	Local	3.8	4.5	4.16	14	Variety- Tapeshwari Seed treatment, Micronutrient application, Application of need based plant protection chemicals	55	20	8.2	7	7.6	100	100	62.7

**B. Economic parameters**

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1.	Variety- Tapeshwari Seed treatment, Micronutrient application, Application of need based plant protection chemicals	13000	17100	4100	1.31	19530	34200	14670	1.75

**C. Socio-economic impact parameters**

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1.	Crop- Mustard Variety- Tapeswari Seed treatment, Micronutrient application, Application of need based plant protection chemicals	15150	232.5	45	2205	12945	To meet the house hold expenditure	90

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

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1.	Varietal change,,	Yes	2	50%	No	Yes	NA
2.	Seed treatment	Yes	6	40%	No	Yes	NA
3.	Micronutrient application	Yes	3	60%	No	Yes	NA
4.	STBFR	Yes	4	70%	No	Yes	NA
5.	Biofertilizer application	Yes	5	80%	No	Yes	NA
6.	Application of need based plant protection chemicals	Yes	1	70%	No	Yes	NA

#### 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
1	Field Day	23.03.2021, Jamda pal	50



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			
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Micro irrigation/irrigation													
Seed production													
Nursery management													
Integrated Crop Management													
Soil & water conservation													
Integrated nutrient Management													
Production of organic inputs													
Others													
Total													
<b>II. Horticulture</b>													
<b>a) Vegetable Crops</b>													
Production of low volume and high value crops													
Offseason vegetables													
Nursery raising													
Exotic vegetables													
Export potential vegetables													
Grading and standardization													
Protective cultivation													
Others													
Total (a)													
<b>b) Fruits</b>													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Total (b)													
<b>c) Ornamental Plants</b>													
Nursery Management													

























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
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													
Entrepreneurship Development	1	8	0	8	0	0	0	7	0	7	15	0	15
<b>Total</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>15</b>	<b>0</b>	<b>15</b>

#### 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	1	15	6	21	3	1	4	6	5	11	24	12	36















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				
Group Dynamics and farmers organization														
Information networking among farmers														
Capacity building for ICT application	1	15	6	21	3	1	4	6	5	11	24	12	36	
Management in farm animals														
Livestock feed and fodder production														
Household food security														
Mechanization in pulse crop	1	14	3	17	0	0	0	8	0	8	22	3	25	
Audio visual aids	1	10	1	11	1	0	1	16	2	18	27	3	30	
Market led extension	1	16	1	17	0	0	0	13	0	13	29	1	30	
<b>Total</b>	<b>4</b>	<b>55</b>	<b>11</b>	<b>66</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>43</b>	<b>7</b>	<b>50</b>	<b>102</b>	<b>19</b>	<b>121</b>	

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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Plant Protection		Management of stem borer and leaf folder in rice.	1	On campus	22	3	25	16	3	19
		Management of FAW in Maize	1	Off Campus	22	8	30	20	7	27
		Vermicompost	2	On campus	11	4	15	0	0	0
		Integrated management of wilt in brinjal	1	Off Campus	8	22	30	24	4	28
		Management of BPH and WBPH in paddy	1	Off Campus	30	0	30	30	0	30
		Management of whitefly in tomato	1	Off Campus	11	19	30	8	15	23
		Management of suckin pest in chilli	1	Off Campus	26	4	30	2	28	30
		IPM for YVMV in okra	1	Off Campus	11	19	30	11	19	30

		Management of diamond back moth in cabbage	1	Off Campus	4	26	30	4	26	30
Horticulture		Management of vegetable nursery	1	Off Campus	7	23	30	7	15	22
		Gardening and grafting in cashew orchard	2	On Campus	11	4	15	3	2	5
		Offseason vegetable cultivation	1	Off Campus	8	22	30	7	19	26
		Production of low volume and high value crop	1	On Campus	30	0	30	23	0	23
		Management practices in chilli	1	Off campus	14	16	30	14	16	30
		Package and practices of tomato cultivation	1	On Campus	12	18	30	6	13	19
		Balance use of fertilizer in brinjal	1	Off campus	17	13	30	17	13	30
		Use of micro nutrients in cole crop	1	Off campus	16	4	30	6	0	6
Agril Extension		Application of ICT tools and digital platform in Agricultural Extension during pandemic situation	2	On Campus	24	12	36	9	6	15
		Production and use of quality audio-visual materials	3	Off campus	27	3	30	17	2	19
		Programme on market extension	2	Off campus	29	1	30	13	0	13
		Marketing management	2	On Campus	12	3	15	4	0	4
		Entrepreneurship development through packaging, leveling and branding through sorting and grading	2	Off campus	15	0	15	7	0	7
		Packaging leveling and branding of	2	On Campus	4	11	15	4	4	8



Value addition	1	0	12	12	0	5	5	0	13	13	0	30	30
Other													
<b>Total</b>													
<b>Livestock and fisheries</b>													
Dairy farming													
Composite fish culture													
Sheep and goat rearing													
Piggery													
Poultry farming													
Other													
<b>Total</b>													
<b>Income generation activities</b>													
Vermi composting													
Production of bio agents, bio pesticides,													
Bio fertilizers etc.													
Repair and maintenance of farm machinery & implements													
Rural Crafts													
Seed production													
Sericulture													
Mushroom cultivation	1	0	8	8	0	4	4	0	18	18	0	30	30
Nursery, grafting etc.													
Tailoring, stitching, embroidery, dyeing etc.													
Agril. Para-workers, para0vet training													
Other													
<b>Total</b>													
<b>Agricultural Extension</b>													
Capacity building and group dynamics													
Other													
<b>Total</b>													
<b>Grand Total</b>	<b>2</b>	<b>0</b>	<b>20</b>	<b>20</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>0</b>	<b>31</b>	<b>31</b>	<b>0</b>	<b>60</b>	<b>60</b>

### I) Sponsored Training Programmes

a) Details of Sponsored Training Programme: Nil



Livestock production and management													
Animal Nutrition Management													
Animal Disease Management													
Fisheries Nutrition													
Fisheries Management													
Other													
Total													
<b>Home Science</b>													
Household nutritional security													
Economic empowerment of women													
Drudgery reduction of women													
Other													
Total													
<b>Agricultural Extension</b>													
Capacity Building and Group Dynamics													
Other													
Total													
<b>Grant Total</b>													

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

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	1	28	12	40	92	1	1		29	13	42
Kisan Mela											
Kisan Ghosthi											
Exhibition											
Film Show	27	579	629	1208	77	12	6	18	591	635	1226
Method Demonstrations	62	221	319	550	72	7	5	12	228	324	552
Farmers Seminar	1	18	12	30	70	3	2	5	21	14	35
Workshop	4	92	28	120	62						
Group meetings	2	28	22	50	60	2	1	3	30	23	53

Lectures delivered as resource persons	21	271	267	538	78	42	25	67	313	292	605
Advisory Services	39	107073	89013	196086	79	529	368	897	107602	89381	196983
Scientific visit to farmers field	109	259	278	537	72	12	7	19	271	285	556
Farmers visit to KVK	12	417	500	917	83	-	-	-	417	500	917
Diagnostic visits	38	132	61	193	71	12	7	19	144	68	212
Exposure visits	8	257	85	342	82	11	5	16	268	90	358
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 1. World food day 2. World soil health day 3. Training on kissan gosthi food & nutrition from farmers KVK under azadi ka amrit mohasav 4. Celebration of 60th foundation day of OUAT 5. Food & Nutrition For farmer, Poshan vatika maha abhiyan tree plantation 6. 6 <sup>th</sup> national seminar on double farming income in Odisha 7. Parthenium Awareness Week 8. Vigilance Awareness week	9	286	387	673	81	18	9	27	304	396	700



**KVK farm**

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Paddy	Pratikshya	72.4	2,35,300	4	4	10	14	9	7	23	25
Linseed	Kota Barani Alsi-4	1.0	6,900	0	0	0	0	15	0	15	0
<b>Grand Total</b>		73.4	242482	4	4	10	14	24	7	38	25

**Production of planting materials by the KVKs**

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
<b>Vegetable seedlings</b>											
Cauliflower	Lucky , CFL-1522	3600	3600	0	2	6	5	0	3	6	10
Cabbage	BC-79,BC-19	3600	3600	0	2	4	5	0	3	4	10
Tomato	ArkaRakshyak, TO-1458	10334	10334	4	2	12	18	4	3	20	23
Brinjal	Arka Anand	16916	16916	5	2	8	9	2	3	15	14
Chilli	HPH-5531	14000	14000	2	2	10	4	2	3	14	9
Onion											
Others	Indra	500	1500								
<b>Fruits</b>											
Mango											
Guava											
Lime											
Papaya	Red lady	1050	26250	0	2	10	11	0	3	10	16



Cows												
Buffaloes												
Calves												
Others (Pl. specify)												
Small ruminants												
Sheep												
Goat												
Other, please specify												
Poultry	Rainbow Rooster	600	45000	0	0	0	60	0	0	0	0	60
Broilers												
Layers												
Duals (broiler and layer)												
Japanese Quail												
Turkey												
Emu												
Ducks												
Others (Pl. specify)												
Piggery												
Piglet												
Hog												
Others (Pl. specify)												
Fisheries												
Indian carp												
Exotic carp												
Mixed carp												
Fish fingerlings												
Spawn												
Others (Pl. specify)												
Grand Total												

**3.5. b. Seed Hub Programme-“Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India”:** Nil

i) Name of Seed Hub Centre:

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

## ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			Category of Seed (F/S, C/S)
			Target	Area sown (ha)	Production	
Kharif 2020						
Rabi 2020-21						
Summer/Spring 2021						
Kharif 2021						
Rabi 2021-2022						

## iii) Financial Progress

Fund received (2017-18, 2018-19, 2019-20, 2020-21, 2021-22)	Expenditure (Rs. in lakh)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2017-18				
2018-19				
2019-20				
2020-2021				
2021-2022				

## iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

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

Item	Title	Author's name	Number	Circulation
Research paper				
Seminar/conference/ symposia papers				
Books				
Bulletins				
News letter	Similipal	KVK, Mayurbhanj-II	1	500
Popular Articles	Mushroom-a profitable enterprise	J. BL Mallick and D. K. Mohanty	1	Mass
Book Chapter				
Extension Pamphlets/ literature	Mushroom cultivation, Backyard poultry and Biofloc methods	K. Patra. BL Mallick and D. K. Mohanty	3	1500
Technical reports	Annual report, Action plan, TSP annual report, SAC report	KVK, Mayurbhanj-II	4	50
Electronic Publication (CD/DVD etc)				
<b>TOTAL</b>			<b>9</b>	<b>2050</b>

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: NA

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 1-2best case(s) with suitable action photographs)

Name of farmer	Sri Manohar Patra
Address	Village : Sangaon, GP: Badgaon, Block: Karanjia, District : Mayurbhanj
Contact details (Phone, mobile, email Id)	Mobile no. 8144930289
Landholding (in ha.)	2.4
Name and description of the farm/ enterprise	Integrated Farming System
Economic impact	Annual net income is around Rupees 5.67 lakhs
Social impact	Nominated as FIAC member and Krishak sathi
Environmental impact	-
Horizontal/ Vertical spread	6 villages

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

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology
1.	Action plan formulation	PRA	Training/FLD/OFT
		Problem matrix	Training/FLD/OFT
		Technology pool	OFT

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)
1.	Finger millet	100	585.94	188	Y

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

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
1.	Group meeting	FLD/training
2.	Questionnaire	Training

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

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 (through State Govt.	Total			
Nil	110	110	400	10	Nil

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1	1	30	15	Honorable VC, MSCB University	30	30

--	--	--	--	--	--

### 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
01	01	Nil	235	28

### 3.13. Technology week celebration: NA

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

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

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
21.07.2021	Mr. C.R. Patra, Add. Secretary to Govt., A&FE department, Govt. of Odisha	KVK visit as nodal officer of the district
22.03.2021	Mr. Managovinda Nayak, Chairman, Jashipur block	On the occasion of World Water Day

## 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)
Mushroom Cultivation	145	36	19800/year	34700/year

Value addition of finger millet	90	20	50/kg	280/kg
Rearing Improved Poultry in Backyard	280	35	8500/20 nos. of bird	13500/ 20 nos. of birds
Seed-cum-Fertilizer drill	90	15	20000/year	80500/year

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
Off season Cauliflower	250 ha
Paddy Straw Mushroom Cultivation	70 nos. of villages
Poultry	85 nos. of villages
Seed-cum-fertilizer drill	2000 ha
Oyster mushroom cultivation	40 nos. of villages
Ragi thresher	15 nos.

Give information in the same format as in case studies

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

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
1.	Management practices of mustard aphid ( <i>Lipaphis erysimi</i> ) in mustard	Farmers very much satisfied with the result	70 ha
2.	Triple resistance variety of tomato Arka Rakhyak	Farmers very much satisfied with the keeping quality along with more weight per fruit	44 ha
3.	Management of FAW in maize	Appreciated due to control of FAW and more yield	160 ha
4.	INM in cauliflower	Appreciated due to more yield and less damage	66 ha

#### 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	Integrated farming system
Name & complete address of the entrepreneur	Sri Manohar Patra, Village : Sangaon, GP: Badgaon, Block: Karanjia, District : Mayurbhanj, Mobile no. 8144930289
Role of KVK with quantitative data support:	Capacity building and FLD
Timeline of the entrepreneurship development	2017- Started, 2018- Got training and demonstration, 2019-Production, 2020- Marketing
Technical Components of the Enterprise	Off season vegetable cultivation/ hybrid vegetable
Status of entrepreneur before and after the enterprise	Before- Rs.2,20,00 , After- Rs. 5,67,000
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. ( Economic viability of the enterprise):	Satisfactory
Horizontal spread of enterprise	3 nos. of blocks

#### 4.6. Any other initiative taken by the KVK

### 5. LINKAGES

#### 5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Agriculture Department	Training, Extension Activities, Demonstration, Farmer's-scientist interaction, farmer's fair, ATMA activities, Field day
Horticulture Department	Training, Extension Activities, Demonstration
Veterinary Department	Animal Health Camp, De-worming & Vaccination programme
Forest Department	Training, Extension Activities, Demonstration

Fishery Department	Training, Extension Activities
DSWO	Training, Extension Activities, Demonstration
NGO- Pradan, Dulal , Sambandh, CSISA	Training, Extension Activities, Demonstration

5.2. List of special programmes undertaken during 2021 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: NA

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.): NA

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.	Mushroom unit	2014	24	V.volvacea , P.Sajarkaju	Mushroom	50	4470	6000	
2.	Poultry	2015	18	Rainbow Rooster	21 days chicks	1180	67387	82600	
3.	Vermicompost	2014	15	African Earthworm	Compost & Vermi	400kg and 1 kg	1500	6500	
4.	Poly house	2016	24	-	Seedling	38300 nos.	19800	65750	
5.	Azola unit	2018	18	-	Azolla	-	-	-	
6.	Kitchen Garden	2013	320	Vegetables	Vegetables	100 kg	670	1000	
7.	Harbal Garden	2018	160	Medicinal Plant	Medicinal Plant	-	5760	-	

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

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	27.06.2021	15.12.2021	3	Pratikshya	FS	84.2 (Unprocessed)	220000	247500	
Arhar	30.06.2021	-	0.4	Durga and Maruti	TL	-			
Maize	30.06.2021	01.11.2021	0.4	VNR 4226	NS	10			
Mustard	22.12.2021	-	0.2	Giriraj	NS	-			
Millets	01.07.2021	19.11.2021	0.1	Bhairavi	TL	0.06			
Dhanicha	26.06.2021	21.11.2021	0.1	Local	TL	0.10			
Hybrid maize	25.12.2021	-	0.4	Kalinga Raj	HY	-			

## 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.	Vermi-compost	400	1500	6000	
2.	Vermi	1	-	500	

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Poultry	Rainbow roaster	21 days old chick	500	34500	43900	

## 6.5. Utilization of hostel facilities: NA

Accommodation available (No. of beds)

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

Total :			

(For whole of the year)

## 6.6. Utilization of staff quarters: NA

Whether staff quarters has been completed:

No. of staffquarters:

Date of completion:

Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI

7. FINANCIAL PERFORMANCE

## 7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK Contingency	State Bank Of India	Jashipur	32417957765
KVK C/A	State Bank Of India	Jashipur	39467589642
Revolving Fund	State Bank Of India	Jashipur	35031091062

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April, 2021
	Kharif	Rabi	Kharif	Rabi	
Mustard Demonstration	--	1,20,000	--	1,20,000	Nil

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2021
	Kharif	Rabi	Kharif	Rabi	

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## 2019.5. Utilization of KVK funds during the year 2021-22(Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	Pay & Allowances			
2	Traveling allowances	1.10	1.10	0.5
3	Contingencies			
<i>A</i>	Stationary, telephone, postage and other expenditure etc	1.20	1.20	1.20
<i>B</i>	POL/repair of vehicle etc			
<i>C</i>	Meals/refreshment for training	0.90	0.9	0.9
<i>D</i>	Training materials			
<i>E</i>	FLD	0.45	0.45	0.45
<i>F</i>	OFT	0.45	0.45	0.45
<i>G</i>	TSP	14.4	14.4	10.8
<i>H</i>				
<i>I</i>	Natural farming	0.141	0.141	Nil
<i>J</i>	Swachhta Expenditure/ SAP Fund	0.147	0.147	0.12
TOTAL (A)				
<b>B. Non-Recurring Contingencies</b>				
1	Equipment and furniture	2.5	2.5	Nil
2	Works	29.55	29.55	Nil
4	Library	0.10	0.10	Nil
TOTAL (B)				
<b>C. REVOLVING FUND</b>				
GRAND TOTAL (A+B+C)				

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year (Kind + cash)
2019-20	1,47,356.30	4,67,930	4,60,617.60	1,54,668.70

2020-21	1,54,668.70	2,90,516.50	3,54,557.60	90,277.60
2021-22	90,277.60	--	--	--

7.6. (i) Number of SHGs formed by KVKs: 01

(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities: Hybrid maize cultivation, Tuber crops, Value addition of ragi, Mushroom cultivations, Poultry etc.

(iii) Details of marketing channels created for the SHGs: Linkages of SHGs with poultry feed unit for selling of maize seed with the help of line departments

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both
World Soil Day	1	Rabi	-	-	√
Planting material verification	8	Kharif and rabi	√	-	-
Farmers-scientist interaction	1	Rabi	-	√	-
Farmer's fair	1	Rabi	-	-	√
Fertilizers dealer's training	1	Rabi	√	-	-
Farm pond+	7	Rabi	√	-	-

## 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)
FAW	Maize	July	244	65	Need based PP chemicals, advisory
Aphid	Mustard	January	1200	70	Need based PP chemicals, advisory

### 8.2. Prevalent diseases in Livestock/Fishery: NA

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 YuvaKendra(NYK) Training: NA

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: NA

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

#### 9.3. mKisanPortal (National Farmers' Portal/ SMSPortal)

Type of message	No. of messages	No. of farmers covered
Crop	11	72,848
Livestock	3	20,912
Fishery	0	
Weather	5	32,448
Marketing	-	-
Awareness	6	60,000
Training information	5	32,448
Other	8	32,448
<b>Total</b>	<b>38</b>	<b>2,51,104</b>

#### 9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	87
2.	No. of farmers registered in the portal	6404
3.	Mobile Apps developed by KVK	Nil
4.	Name of the App	-
5.	Language of the App	-
6.	Meant for crop/ livestock/ fishery/ others	-

7.	No. of times downloaded	-
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## 9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
4/6/21(1day)	Cleaning office premises
8/7/21(1day)	Cleaning office premises
13/8/21( 1day)	Cleaning village road (Askipal)
20/9/21(1day)	Cleaning village road(Sanagaon)
2/10/21(1day)	Cleaning office premises
6/10/20 (1day)	Cleaning village school(Badbil)
15/11/21(1day)	Cleaning office premises
24/11/21(1day)	Cleaning village road(Puruna deogaon)
7/12/21(1day)	Cleaning village road(Podadiha)
10/12/21(1day)	Cleaning office premises

## b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office		
2. Basic maintenance	01	7650
3. Sanitation and SBM		
4. Cleaning and beautification of surrounding areas	02	8800
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	01	14600
6. Used water for agriculture/ horticulture application		
7. Swachhta Awareness at local level	02	4000
8. Swachhta Workshops		
9. Swachhta Pledge		

10. Display and Banner	02	500
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)	02	4500
14. No of Staff members involved in the activities	11	-
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
<b>Total</b>	<b>21</b>	<b>40050</b>

9.6. Observation of National Science day: NA

Date of Observation	Activities undertaken

9.7. Programme with SeemaSurakshaBal/ BSF: Nil

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school: Nil

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 Swachhta Hi Suraksha programme (16-31.12.2021) organized

Sl.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
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No.					
1.	Cleaning villages, school premises, awareness programme	10	250	Nil	-

9.10. Details of MahilaKisan Divas programme (15.10.2021) organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Training, sharing experience, success story deliberation	2	40	Nil	Nil

9.11. 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.	Mr. DebanandaPingua	Village-Askipal, G.P.-Teranti, Block-Sukuruli Mob-9437798093	Integrated farming
2.	Mr. PrahaladMohanta	Village-Kulanda G.P.-Angarpada, Block-Raruan , Mob-8328807291	Vegetable cultivation
3.	Mrs. SandhyaraniMohanta	Village-Tangabila G.P.-Tangabila Block-Jashipur, Mob-9668316099	Mushroom cultivation
4.	Mrs. PramilaBehera	Village-Kaptira, G.P.-Matiagarh Block-Jashipur, Mob- 9556210620	Organic Pesticide
5.	Mrs. Anita Lohar	Village-Badbil, G.P.- Begunia Block-Jashipur, Mob- 6371311200	Farm Machineries

9.12. Revenue generation

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

9.13. Resource Generation:

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

## 9.14. Performance of Automatic Weather Station in KVK : NA

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

## 9.15. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Odisha	Mayurbhanj-II	Hybrid maize	03	40	Hybrid maize provided in late Kharif

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

a) Year:

b) Introduction / General Information:

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



				M	F	M	F	M	F	M	F	T	

## Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks	
			SC		ST		Other		Total				
			M	F	M	F	M	F	M	F	T		

## Capacity building

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

## 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: NA

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

## Award received by Farmers from the KVK district: NA

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): NA

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

## 16. Integrated Farming System (IFS): NA

## 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

## 17. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Backyard poultry	Breeds Aseel with health management	24,600	32	
2	Mushroom cultivation	Cultivation of Paddy straw and Oyster mushroom	17,800	36	
3	Hybrid maize cultivation	Hybrid maize Kalinga Raj with full packages of practice	26,200	15	
4	Value addition of finger millets	Preparation of ladoo, kurkure, muduku and other products	20,500	20	

18. a) Information on ASCI Skill Development Training Programme, if undertaken during 2021: NA

Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants						Whether uploaded to SIP Portal (Y/N)	Fund utilized for the training (Rs.)
				SC		ST		Other			
				M	F	M	F	M	F		

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs.**, if any) if undertaken during 2021: NA

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

19. Information on NARI Project(if applicable):NA



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iii. **Status of Natural Farming: NA**

Crop/ Commodity involved in Natural farming	Area covered under such farming (ha)	No. of farmers practicing Natural farming at present	Details of individual farmers (Name and Contact No.)	Organic component/ inputs used for such farming

iv. **Farmer Producer Organizations**

a) **General information**

Sl. No.	Name & Address of FPO	Name & Contact No. of Head of FPO	No. of farmer members of FPO			Crop/ Enterprise dealt with by FPO	Kind of support provided by KVK in running/ starting of FPO (in brief)
			M	F	T		
1.	Name- Meghasini FPO Address- At- Suanpal, Po- Dhalabani, Block- Jashipur, Dist- Mayurbhanj- Odisha-757034 Email- <a href="mailto:aranyanimayurbhanj@gmail.com">aranyanimayurbhanj@gmail.com</a>	SAMBANDH NGO, Jashipur/ NABARD, Mayurbhanj			233	NTFP, Agriculture	<ul style="list-style-type: none"> <li>• RY training on value addition of jackfruit</li> <li>• FLD on maize</li> <li>• TSP programme on poultry and mushroom</li> </ul>
2.	Name- Thakurmunda FPO Address- Plot No-1954, At/Po-Baunsiha, Block- Thakurmunda, Dist- Mayurbhanj- Odisha-757038	SAMBANDH NGO, Jashipur/ NABARD, Mayurbhanj			1500	NTFP, Horticulture Agriculture	<ul style="list-style-type: none"> <li>• TSP programme on poultry and mushroom</li> <li>• Training on mushroom cultivation</li> </ul>
3.	Name- Jashipur Farmers Producer Company Ltd. Address- At- Padmapur, PO- Jashipur, Dist- Mayurbhanj, Odisha-757034 Mobile no- 8047190888 Email- <a href="mailto:fpcjashipur@gmail.com">fpcjashipur@gmail.com</a>	CREFTDA NGO, Jashipur/ Odisha Millet Mission			174	Ragi, Ragi value added product, Ragi machineries custom hiring, Millet on wheels for marketing, NTFP (Honey)	<ul style="list-style-type: none"> <li>• RY training on value addition of Ragi</li> <li>• FLD on different machineries used in ragi</li> <li>• TSP programme on poultry and mushroom</li> </ul>

b) **Financial information**



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

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

22. Good quality action photographs (with proper caption) of overall achievements of KVK during the year (best 10)



**FLD on Maize variety – Kalinga Raj (OMH 14-27)**

**FLD on rearing improved (Breed-Aseel) poultry in backyard**

**FLD on humidity and temperature management in paddy straw mushroom in peak summer period**

**FLD on management of FAW in maize**

**Assessment of value addition of tomato for income generation**

**Poshan Vatika Abhiyan**

**Field day on triple disease resistant tomato variety – Arka Rakshak**

**World Food Day**