

## **PROFORMA FOR ANNUAL REPORT- (January-2019 to December 2020)**

### **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	
At-Paljar, P.O.-Salunki, Dist-Boudh, Pin-762026	-	-	kvkboudh.ouat@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Orissa University of Agriculture & Technology, Bhubaneswar-751003	0674- 2397970	0674-2397780	<a href="http://ouat.nic.in">http://ouat.nic.in</a>

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.Sutanu Kumar Satapathy	At-KVK Campus, Paljar, Boudh-762026	9437619310	<a href="mailto:satapathysutanu@gmail.com">satapathysutanu@gmail.com</a>

1.4. Year of sanction of KVK: Year of sanction of KVK: Krishi Vigyan Kendra, Boudh was established by ICAR in 01.07.2005 under the control of Orissa University of Agriculture and Technology at Paljar farm. Boudh district is bounded by River Mahanadi & Angul District to the north, Kandhamal District to the south, Nayagarh District to the east and River Tel & Subarnapur District to the west, covering a geographical area of 3098 sq km, the district lies between 20<sup>0</sup> 22' N to 20<sup>0</sup> 50' North Latitude and 83<sup>0</sup> 34'E to 84<sup>0</sup>49' East Longitude.

1.5. Staff Position (as on 1<sup>st</sup> January, 2020)

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	S. Satapathy	Sr. Scientist & Head	Horticulture	15600-39100 AGP -6000	01/07/16	Temporary	Others
2	Subject Matter Specialist	Jyoti Rekha Mallick	Scientist (PP)	Entomology	15600-39100 AGP -6000	05/01/16	Temporary	ST
3	Subject Matter Specialist	Sasmita Priyadarshini	Scientist (Agronomy)	Agronomy	15600-39100 AGP -6000	12/06/18	Temporary	SC
4	Subject Matter Specialist	Mayuri Sing Sardar	Scientist (Agril.Extn.)	Agril. Extn	15600-39100 AGP -6000	31/07/18	Temporary	ST
5	Subject Matter Specialist	Vacant	-	-	-	-	-	-
6	Subject Matter Specialist	Vacant	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	-	-	-	-	-	-
8	Programme Assistant	Vacant	-	-	-	-	-	-
9	Computer Programmer	Md. Sadakat Ali	Prog.Asst (Computer )	-	9300-34800 AGP- 4200	28/12/10	Temporary	Others
10	Farm Manager	Harapriya Sethy	Farm Manager	Horticulture	9300-34800 AGP-4200	03/02/15	Temporary	SC
11	Accountant / Superintendent	Vacant	Accountant / superintendent	-	9300-34800 AGP-4600	-	-	-
12	Stenographer	B. K. Behera	Stenographer	-	5200- 20000 AGP -2400	16/01/06	Temporary	SC
13.	Driver	T. Sahoo	Driver	-	5200-20200 AGP-1900	07/09/15	Temporary	Others
14.	Driver	G.S.Choudhury	Driver	-	5200-20200 AGP-1900	15/11/13	Temporary	Others
15.	Supporting staff	B. Baral	Supporting staff	-	4440-14680 AGP-1300	20/12/07	Temporary	Others
16.	Supporting staff	K. Samal	Supporting staff	-	4440-14680 AGP-1300	20/12/07	Temporary	Others



13.	Mushroom production unit	-	-	-	-	Yes	-	Use	ICAR
14.	Shade house	-	-	-	-	-	-	-	-
15.	Soil test Lab	-	-	-	-	Yes	-	Use	ICAR
16	Others, Please Specify	-	-	-	-	-	-	-	-

\* If not in use then since when and reason for non-use

#### B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
TATA SUMO	2005-06	3,84,042	200000	Condemned
Tractor	2005-06	4,34,088	85000	Running Condition
Motor cycle	2009-10	49,965	62000	Running Condition
Bolero	2019-20	8,00,000	-	Newly purchased

#### C) Equipment & 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>				
<b>c. AV Aids</b>				
i. Television (Philips)	31.3.2007	11,200	Good condition	ICAR
ii. Camera (Sony)	31.3.2007	9,900	Good condition	ICAR
iii. Camera (Sony)	31.3.2008	9,490	Good condition	ICAR
iv. Handy cam (Sony)	31.3.2012	24,700	Good condition	ICAR
v. GPS Camera	31.3.2016	22,500	Good condition	ICAR
vi. Camera	31.3.2018	10,169	Good condition	ICAR
vii. LED TV	31.3.2018	50,000	Good condition	ICAR
viii. LCD Projector	15.01.2010	86,000	Good condition	ICAR
ix. Picco Projector	31.3.2017	20,000	Good condition	ICAR
x. Ahuja Complier	31.3.2010	9,450	Good condition	ICAR

xi. Ahuja speaker Box	31.3.2010	7,300	Good condition	ICAR
xii. Ahuja codeless phone	31.3.2010	2,350	Good condition	ICAR
xiii. Ahuja stand mic phone	31.3.2010	1,740	Good condition	ICAR
xiv. Ahuja micro phone stand	31.3.2010	1,500	Good condition	ICAR

## D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
i. Rotavetor	31.3.2012	30,000	Good condition	ICAR
ii. MC Thresher cum Fan type winner	31.3.2012	20,000	Good condition	ICAR
iii. Aspee power sprayer	31.3.2016	7,865	Good condition	ICAR
iv. M.B.Plough	31.3.2016	30,500	Good condition	ICAR
v. 9 type cultivator	31.3.2016	25,500	Good condition	ICAR
vi. Aspee Arush cutter	31.3.2016	25,300	Good condition	ICAR
vii. Weeder (Dry land)	31.3.2017	35,801	Good condition	ICAR
viii. Agrimate power mist blower	31.3.2017	8,400	Good condition	ICAR
ix. KNAPSM type battery operated sprayer	31.3.2017	4,410	Good condition	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.	27.01.2019	31	➤ Orchard management in Mango	-	-
			➤ Varietal trial on pungency of chilli with local variety		
			➤ Popularisation of potential technologies on Kharif, late kharif onion cultivation		
			➤ Production technologies for off season coriander cultivation methods in polyhouse.		
			➤ Production technologies for highly nutritive vegetables		

			cultivation methods.		
			➤ Trail on BPH management technologies except for varietal trial		
			➤ Popularisation of short duration rice variety for drought tolerance.		
			➤ Introduction of a demonstration unit in KVK crop cafeteria.		
			➤ Popularisation of production technologies for <i>Tilapia</i> sp.production		
			➤ Emphasis on veterinary sector and demonstration based on Animal husbandry in KVK.		
			➤ Emphasis on maintenance of animal husbandry in KVK crop cafeteria as demonstration unit.		
			➤ Emphasis on entrepreneurship development through capacity building.		
			➤ Awareness on diary, poultry and its marketing management.		
			➤ More field visit activities to be followed for more interaction with farmers.		
			➤ Popularisation of the new varieties of NHRDF which includes onion varieties of NHRDF series and garlic variety Jamuna safeda series.		
			➤ Demonstration and training or involvement in Mission shakti activities for storage methods		

			technologies of Rabi onion.		
			➤ More emphasis on crop diversification of high value crops or bankable projects for SHGs or entrepreneurs		
			➤ More emphasis on flower cultivation and its popularisation in the district among SHGs or women entrepreneurs		
			➤ Awareness on diseases related goatery and poultry.		
			➤ Production technologies on pigeon pea varieties specific to bund cultivation and its yield enhancement technologies.		
			➤ Crop diversification of unbundled upland condition with respect to introduction to specific varieties for crop sweet corn and vegetables.		
			➤ Popularisation of production technologies for scented rice in the district.		
			➤ Emphasis on marketing of tomato during rabi		
			➤ Emphasis on more numbers of field visits.		

*\* Salient recommendation of SAC in bullet form*

*Attach a copy of SAC proceedings along with list of participants*

List of participants present in the Rabi 16<sup>th</sup> SAC meeting with their address and status in the meeting.

Sl. No	Name	Designation &Address	Status
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1	Dr. Hemanta Sahoo	Dpty. Director, Extension Education, OUAT	
2	Dr. Sarat Kumar Mishra	CDVO,Boudh	
3	Sj. Himanshu Sekhar Acharya	ADH, Boudh	
4	Dr. Rajneesh Mishra	Dpty. Director of NHRDF,Boudh	
5	Sri R. K. Sethy	LDM, Boudh	
6	Sri Sanjiv Kumar Muduli	AAO,Boudh	
7	Sri Devdutta Mishra	DPC, Mission Sakti,Boudh	
8	Sri Ashit Kumar Kanhar	Range officer,Boudh	
9	Sri Manoj Kumar Bhuiya	DFO,Boudh	
10	Sir Pravat Kumar Sahu	IPO, DIC Boudh	
11	Sri Amarnath Pradhan	Invitee	
12	Sri Susanta Sahoo	Dharitri Reporter	
13	Sri Priya Brata Sahoo	Naxatra Reporter	
14	Sri Ghasiram Pradhan	Pramaya Reporter	
15	Sri Amarnath Pradhan	RMC.Boudh	
16	Sri Prabir Kumar Das	H.O.D, Botney, B.P.College,Boudh	
17	Sri Ramesh Naik	Progressive Farmer	
18	Sri Khetrabasi Naik	Progressive Farmer	
19	Sri Kusadwaja Naik	Progressive Farmer	
20	Sri Ritanjali Naik	Progressive Farmer	
21	Sri Kanan Khamary	Faculty, SBI, RSEHP, Boudh	
22	Smt Gurubari Sahoo	Progressive Farm women	
23	Smt Sobharani Bhoi	Invitee	
24	Sri Abhilash Mahakud	Technical Assistant, NHRDF,Boudh	
25	Sri Niramal Kumar Sahoo	Secretary, PSS, Telibandha, Boudh	
26	Sri Manoj Kumar Pradhan	Invitee	
27	Sri Ranjit Kumar Das	Technical Officer (PP) NHRDF,Boudh	
28	Sri Gadadhar Mahakud	Invitee	
29	Sri Sukanta Sahoo	Sambad Reporter	
30	Sri Girish Chandra Pradhan	Invitee	
31	Sri Prasant Mohapatra	Invitee	
32	Sri Purna Chandra Khatua	Secretary YCDA,Boudh	



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

Sl. no.	Item	Information	
1	Major Farming system/enterprise	Rice-pulses, Rice Oilseeds, Rice-rice, Rice-Vegetables, Sugarcane, Cotton, Goatery, Dairy	
2	Agro-climatic Zone	Western Central Table land	
3	Agro ecological situation	Hot to sub humid	
4	Soil type	Black soil, Mixed red & Black, Red soil	
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Green gram	4.92
		Black gram	4.50
		Pigeonpea	7.32
		Sesamum	4.01
		Green gram	4.92
6	Mean yearly temperature, rainfall, humidity of the district	A mean maximum summer temperature 48.5° centigrade and mean winter temperature 9.5° centigrade.	
7	Production of major livestock products like milk, egg, meat etc.	Milk	25.13 (000 MT)
		Egg	14.59 (Mill No)
		Meat	2468.65 (M.T)
		Fish (Fresh water)	5167.60 (in MT)
		Egg	14.59 (Mill No)

Note: Please give recent data only

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

Name of village	Block	Action taken for development
Rampur	Boudh	Training, OFT (PP), OFT(Hort),FLD
Isirisinga	Boudh	Training, OFT (PP), OFT(Hort),FLD,
Amthapada	Boudh	Training, OFT (PP), OFT(Hort),FLD, Module Activity-1
Palaspat	Boudh	Training, OFT (PP), OFT(Hort),FLD

Lambakani	Harbhanga	Training, OFT (PP), CFLD Activity, Module Activity-2
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2. c. Details of village adoption programme:

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	Boudh	Boudh	Amthapada	Paddy Pigeonpea Onion Vegetable Goatery	Paddy-Paddy Pigeonpea Onion	Drought tolerant variety Short duration , Pod borer damage

2.1 Priority thrust areas

S. No	Thrust area
1.	Crop diversification and varietal substitution
2.	Integrated Nutrient Management practices in crops
3.	Acid soil reclamation
4.	Integrated Pest & Disease Management
5.	Improving productivity of horticultural crops
6.	Farm mechanization, post-harvest and soil and water conservation
7.	Drudgery reduction
8.	Scientific management of Goatery, Apiary, Fishery & Dairy
9.	Organic farming
10.	Post-Harvest Management and Value Addition
11.	Soil and Water Conservation
12.	Organic farming-use of vermicompost, Azolla and biofertiliser



Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
10.0	6.0	500000	388070

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
Book/ Booklet	03	1500	-	-	-	-	-
Leaflets	02	1000	-	-	-	-	-
Poster/Flex	19	19	-	-	-	-	-
News letter	01	500	-	-	-	-	-
News paper Coverage	04	Mass	-	-	-	-	-
Popular Articles	-	-	-	-	-	-	-
Technical bulletins	04	15	-	-	-	-	-
Technical report	06	30	-	-	-	-	-
Training material	-	-	-	-	-	-	-
Year planner	01	20	-	-	-	-	-
CDs/ DVDs	08	200	-	-	-	-	-
<b>Total</b>	<b>48</b>	<b>3284</b>	-	-	-	-	-

## 1 Achievements on technologies assessed and refined

## OFT-1

1.	Title of On farm Trial	<b>Assessment of rice varieties tolerant to BPH during Kharif</b>
2.	Problem diagnosed	Low yield due to high BPH/WBPH infestation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on Rice, Chiplima, Odisha-2005
5.	Production system and thematic area	Rainfed Low land area
6.	Performance of the Technology with performance indicators	BPH count/m <sup>2</sup> · Effective panicles/ m <sup>2</sup> · No of filled grains/Panicle, 1000 grain weight
7.	Final recommendation for micro level situation	<b>TO1-</b> Cultivation of tolerant variety Hasant <b>TO2-</b> Cultivation of tolerant variety Pratikshya
8.	Constraints identified and feedback for research	TO 1- Hasanta (OR-2328-5) suitable for rainfed /irrigated shallow low land, 145 days duration, Avg.yield: 3.9 t/ha tolerant to BPH, WBPH, Blast, Leaf folder
		TO 2- Pratikshya suitable for shallow low land, 145 days duration, Avg.yield: 4.5 t/ha resistant to Blast,field tolerant to BPH and other major pests.
9.	Process of farmers participation and their reaction	Farmers are appreciated

01Table:1

Technology option	No. of trials	Yield component			% change in Yield	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No.of BPH /hill	No.of grains/panicle	Test wt. (100 grain wt.)						
FP	01	-	180	-	-	26.8			17900	1.5
TO-1		-	245	-	45.5	39.0			34250	1.8
TO-2		-	225	-	35.34	35.2			27845	1.69

## OFT-2

1.	Title of On farm Trial	<b>Assessment of different Herbicides for weed management in green gram</b>
2.	Problem diagnosed	Lower yield due to high weed infestation
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	SLREC proceedings 2014 (Aicrp on mullarp)
5.	Production system and thematic area	Medium Irrigated, Rice-Greengram farming system
6.	Performance of the Technology with performance indicators	Weed density, Weed control efficiency, Grain yield, No. of pods/plant, No.of grains /pod
7.	Final recommendation for micro level situation	<b>TO1-</b> The application of Pendimethalin @ 1 kg/ha as pre emergence <b>TO2-</b> The application of Imazethapyr @ 75 g/ha as post emergence at 20 DAS <b>TO3-</b> The application of Pendimethalin @ 1 kg/ha as pre emergence fb Imazethapyr @ 75 g/ha as post emergence at 20 DAS
8.	Constraints identified and feedback for research	Control weeds within 36 days of application and restrict the weed growth upto 10 nos /m <sup>2</sup> / 8 q.m
9.	Process of farmers participation and their reaction	Farmers are appreciated

Table:2

Technology option	No. of trials	Yield component			% change in Yield	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No.of BPH /hill	Weeds/sq. mt	Test wt. (100 grain wt.)						
FP	01	-	25	-	-	3.5			9,412	1.6
TO-1		-	7	-	14.1	4.0			11,900	1.7
TO-2		-	5	-	20.0	4.2			13,295	1.8
TO-3		-	3	-	42.8	5.0			20725	1.93

## OFT-3

1.	Title of On farm Trial	<b>Assessment of Onion Varieties of Kharif Season</b>
2.	Problem diagnosed	Low yield due to Unavailability of Suitable variety.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	DOGR-Pune SLREC - 2016
5.	Production system and thematic area	Medium and Irrigated Land
6.	Performance of the Technology with performance indicators	Average Blub wt., Average Bulb Diameter, Total Crop duration, Yield.
7.	Final recommendation for micro level situation	TO1- BHIMA SUPER TO2- BHIMA DARK RED
8.	Constraints identified and feedback for research	TO1-BHIMA SUPER-Bulbs are pink light colour, globular in shape, matured in 100-110 DAT. Recommended for growing on Kharif season to all over the country & Yield 20-22 t/ha. TO 2-BHIMA DARK RED - Bulbs are dark Red in colour, flat, globular in shape, matured in 95-100 DAT. Recommended for growing on Kharif season to all over the country & Yield 20-22 t/ha.
9.	Process of farmers participation and their reaction	Farmers are appreciated

Table:3

Technology option	No. of trials	Yield component			% change in Yield	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No.of BPH /hill	Bulb Diameter	Test wt. (100 grain wt.)						
FP	01	-	5.6	-	-	184.3		2,76,000	1,59,000	2.2
TO-1		-	7.49	-	32.3	243.9		3,64,000	2,39,500	2.9
TO-2		-	7.1	-	13.78	209.7		3,13,500	1,88,500	2.5

## OFT-4

1.	Title of On farm Trial	<b>Assessment of Triple disease resistant tomato hybrid Arka Rakshak &amp; Arka Samrat during Rabi Season</b>
2.	Problem diagnosed	Unavailability of Wilt Resistant Variety.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-IIHR,BENGALURU,2016
5.	Production system and thematic area	Medium and Irrigated Land. (Paddy-Vegetable)
6.	Performance of the Technology with performance indicators	Avg Fruit wt, Wilting %,Total Yield,Days to 1 <sup>st</sup> harvest. Total Yield.
7.	Final recommendation for micro level situation	TO1- Arka Rakshak TO2- Arka Samrat
8.	Constraints identified and feedback for research	O-1, Arka Rakshak First F1 hybrid with triple disease resistant to ToLCV, BW and early blight. Fruits square round, large(90-100g),deep red coloured and firm.Suitable for fresh market and processing.Yield: 75-80 t0ha. in 140 days. Seed 100g/ha. Transplanting at a spacing of 90*60 cm.



		TO-2, Arka Samrat First F1 hybrid with triple disease resistant to ToLCV, BW and early blight. Fruits obtale to high round, large(90-100g),deep red and firm. Suitable for fresh market.Yield: 80-85 t/ha in 140 days.
9.	Process of farmers participation and their reaction	Farmers are appreciated

Table:4

Technology option	No. of trials	Yield component			% change in Yield	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No.of BPH /hill	No. of fruits/plants	Test wt. (100 grain wt.)						
FP	01	-	27.6	-	-	283.6		2,26,400	76,400	1.5
TO-1		-	43.2	-	40.67	477.9		3,81,600	2,31,600	2.5
TO-2		-	35.4	-	19.37	351.3		2,80,800	1,30,800	1.8

## OFT-5

1.	Title of On farm Trial	<b>Assessment of IPM modules for fruit &amp; shoot bore in Kharif Brinjal</b>
2.	Problem diagnosed	Repeated sprays of one type of insecticide (Cypermethirin & Thimet)
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	OUAT, Annual Report- 2009-10
5.	Production system and thematic area	Medium land Rainfed
6.	Performance of the Technology with performance indicators	No of infested twig, moth catches/trap, no of infested fruits
7.	Final recommendation for micro level situation	<b>TO1-</b> Collection and destruction of damaged shoots & fruits, installation of pheromone traps for Lorbonalis @ 25 nos. /ha & release of Trichogramma chilonis

		@ 50000/ha 10 days interval 6 times followed by spraying of Neem oil 1500 ppm @ 5ml/lit at weekly intervals <b>TO2-</b> TO 1 + Application of Spinosad 4 MI/ 10 lit at weekly intervals
8.	Constraints identified and feedback for research	TO 1- Eco friendly cultural , Biological & mechanical practices for reduces the pest population TO 2- Spinosad is a natural substance made by a soil bacterium that toxic to insects
9.	Process of farmers participation and their reaction	Farmers are appreciated

Table:5

Technology option	No. of trials	Yield component			% change in Yield	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No.of BPH /hill	% shoot damage	Test wt. (100 grain wt.)						
FP	01	-	14.88	-	-	47.31			67,570	2.09
TO-1		-	10.98	-	20.18	56.86			74,560	2.42
TO-2		-	10.36	-	15.83	54.80			78,798	2.14

**OFT-6**

1.	Title of On farm Trial	<b>Assessment of fungicide against Banana wilt in Kharif season</b>
2.	Problem diagnosed	Paname Wilt
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OUAT, Annual Report- 2009-10
5.	Production system and thematic area	Medium land Irrigated condition
6.	Performance of the Technology with performance indicators	No of plants damaged/25m <sup>2</sup>

7.	Final recommendation for micro level situation	<b>TO1-</b> Application of Neem cake @ 250 g/plant + Application of lime (CaCO <sub>3</sub> ) @ 10g/plant + sucker dipping in Carbendazim (0.2%) for 30 minutes + carbendazim drenching (0.2%) @ 3.5 L/plant ( 2 <sup>nd</sup> 4 <sup>th</sup> 6 <sup>th</sup> MAP) <b>TO2-</b> TO 1 + Carbendazim injection @ 3 ML of 2% solution (3 <sup>rd</sup> 5 <sup>th</sup> 7 <sup>th</sup> MAP)
8.	Constraints identified and feedback for research	TO 1- Neem cake has been known to enrich the soil and protect the plant due to its natural pesticide content. Lime is a calcium containing inorganic mineral composed primarily of oxides and hydroxide, usually calcium oxide and/or calcium hydroxide used for soil amendment. TO 2- Carbendazim is systemic fungicide with protective and curative action and works by inhibiting the development of fungi interfering with spindle formation at mitosis (cell division)
9.	Process of farmers participation and their reaction	Farmers are appreciated

Table:6

Technology option	No. of trials	Yield component			% change in Yield	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No.of BPH /hill	Percent wilt index (%)	Test wt. (100 grain wt.)						
FP	01	-	15.61	-	-	19.24			51,200	1.13
TO-1		-	4.21	-	42.9	27.51			82,550	1.50
TO-2		-	0.00	-	54.5	29.73			92,650	1.65

## OFT-7

1.	Title of On farm Trial	<b>Assessment of different planting time for better market price of Tomato.</b>
2.	Problem diagnosed	Distress sale of Tomato in Rabi season.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Assessed
4.	Source of Technology (ICAR/AICRP/SAU/other, please specify)	International journal of agricultural research innovation & technology, www.ijarit.webs
5.	Production system and thematic area	Upland Irrigated, Extensive, Rice-Vegetable
6.	Performance of the Technology with performance indicators	Plant height, No. of fruits / plant, Fruit wt., Disease and pest incidence, Market price.
7.	Final recommendation for micro level situation	<b>TO1-</b> Planting of seedling 15 days before onset of normal planting period. <b>TO2-</b> Planting of seedling 15 days after onset of normal planting period.
8.	Constraints identified and feedback for research	1. Advancing of planting time by 15 days to help in capturing higher market price in initial period. 2. Delaying of planting by 15 days to help in capturing higher market price.
9.	Process of farmers participation and their reaction	Farmers are appreciated

Table:7

Treatments	Plant height (cm)	No.of fruits/plant	Fruits wt. (gm)	Insect infestation (%)		Market price (Rs/kg)	Yield (q/ha)	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C ratio
				75 DAT	90 DAT						
FP	46	32	57	29.3	24.2	7	309.4	76,700	2,16,580	1,39,880	2.82
TO1	51	39	68	20.6	15.7	9	326.2	88,200	2,93,570	2,05,380	3.33
TO2	47	35	62	23.2	18.9	8	314.8	81,500	2,51,840	1,70,340	3.10

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.	Paddy		Swarna Shreya is suitable for rainfed low land and direct seeded aerobic condition with duration of 120-125 days. It has capacity to with stand drought and also tolerance to many disease and insects. Average productivity of this variety is 4.5 to 5.0 t/ha.	1.0	1.0	-	-	-	-	10	-	10	-	10	-
2.	Paddy		Pendimethalin is a pre emergence herbicide which gives wide spectrum of weed control like grasses, sedges and broadleaf weeds. The mode of action of herbicide is inhibition of root and shoot growth resulting in inhibition of emergence. Bispyribac sodium is a post emergence herbicide which also gives wide spectrum of weed control with ALS inhibitions mode of action restricting production of essential amino acids.	1.0	1.0	-	-	-	-	10	-	10	-	10	-
3.	Cotton		Pendimethalin is a pre emergence herbicide which gives wide spectrum of weed control like grasses, sedges and broadleaf weeds. post emergence application of Quizalop p-ethyl helps in controlling grassy Weeds. It also helps in reducing no of Weeds /m2	1.0	1.0	-	-	-	-	10	-	10	-	10	-
4.	Sweet corn		Plant height 5-6 ft ,Maturity: 78-85 days. 50% silking: 53-55 days.	1.0	1.0	-	-	-	-	10	-	10	-	10	-

			population/ha: 55000-60000. & Seed treated with bio-fertilizer before sowing and application of Chemical fertilizer@ 120:60:60 Kg N:P:K /ha												
5.	Chilli	INM	Application of 75% recommended dose of N (100 kg/ha) along with full P & K (60 kg/ha) and Azospirillum (10 kg/ha) recorded highest Green Chilli Yield.	1.0	1.0	-	-	-	-	10	-	10	-	10	-
6.	Banana	INM	Application of 75% of RDF (300:100:300 gm NPK/Plant)+ 125 gm each of Azotobactor, Azospirillum & PSB incubated in FYM /Plant resulted higher Yield.	1.0	1.0	-	-	-	-	10	-	10	-	10	-
7.	Onion	Weed Management	Pre – emergence application of Pendimethalin 750gm/ha followed by application of quizalofop-p-ethyl @50gm/ha at 20 DAS is most effective in controlling Weed complex in Onion.	1.0	1.0	-	-	-	-	10	-	10	-	10	-
8.	Tomato	Nutrient Management	Arka Vegetable special for micro-nutrient suppliment (IIHR, Bengaluru) 12.5kg/ha inoculated with FYM.	1.0	1.0	-	-	-	-	10	-	10	-	10	-
9.	Pumpkin		Soil application of chlorpyriphos dust around the plant at 30 DAG, placement & Application of jaggery (100g), dichlorvos (2ml) & water (1 lit) poison bait (BAT) , Installation of cue lure @ 20/ha (MAT) & Periodic removal and destructions of damaged fruits effectively reduced the fruit damaged.	1.0	1.0	-	-	-	-	10	-	10	-	10	-
10.	Chilli		Spray of Acephate @ 1.5 g/L + Neem oil @ 2 ml/L followed by spray of Cyazypy @ 1.5 MI/L at weekly interval till fruit formation	1.0	1.0	-	-	-	-	10	-	10	-	10	-
11	Mango		Four sprays of Metarhizium anisopliae oil formulation @ 0.5 ml/L at weekly interval	1.0	1.0	-	-	-	-	10	-	10	-	10	-
12	Watermelon		Seed treatment with Talc based formulation bio-agents Trichoderma or Pseudomonas @ 35-50/kg of seed forming slurry + seedling drench near root zone @ 25 gm/lit of water as suspension after 15-20 DAS (2-4 leaf	1.0	1.0	-	-	-	-	10	-	10	-	10	-







	demonstrated			Demons ration	Check	parameter	Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																
Cow																
Buffalo																
Poultry																
Rabbitry																
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.)			
					Demons ration	Check		Demons ration	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 : NA

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	Enterprise development																
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl. specify)																	
Total																	

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

\*\* BCR= GROSS RETURN/GROSS COST

## Women empowerment : NA

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

## Farm implements and machinery : NA

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

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





Technical Feedback on the demonstrated technologies: NA

Sl. No	Crop	Feed Back

Extension and Training activities under FLD : NA

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

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2019 and Rabi 2019:**

**A. Technical Parameters:**

Sl. No.	Crop demonstrated	Existing (Farmers) 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	Pigeonpea	Kandula	9.5	145	54	-650	Use of HYV PRG 176; Seed treatment with carboxin+ thiram; Application of herbicides(pendi methalin and imazethapyr)	25	20	14.0	11.8	12.9	2.94q	8.45q	-2.1q
2	Greengram	Jhainmooog	6.7	503	476	1204	<ul style="list-style-type: none"> <li>➤ Use of HYV(IPM-02-03)Seed treatment with carboxin+ thiram; Application of herbicides(pendi methalin 2.5 lit/ha</li> <li>➤ Application of Imidacloprid @0.4 ml/litcontrol sucking pest attack</li> </ul>	25	10	7.5	5.7	6.7	1.63	1.90	-5.7



1	Pigeonpea (PRG-176)	12900	50	40	100	190	for next season farming and house expenses	90
2	Greengram (IPM-02-03)	670	500	70	70	100	sold as seed	household expenditure
3	Blackgram (PU-31)	14903	183	50.00	2833	4560	Social function, Education of children	52

#### 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	HYV of Pigeonpea (PRG-176); Seed treatment with carboxin+ thiram; Application of herbicides(pendimethalin and imazethapyr)	Suitable	Very good	75%	No	Yes	No
2	<ul style="list-style-type: none"> <li>➤ Use of HYV(IPM-02-03)Seed treatment with carboxin+ thiram; Application of herbicides(pendimethalin 2.5 lit/ha</li> <li>➤ Application of Imidacloprid @0.4 ml/litcontrol sucking pest attack</li> </ul>	suitability to their farming system	Preferred	72%	Nil	Yes	No
3	HYV of Blackgram (PU-31); Seed treatment with carboxin+thiram; Application of herbicide(pendimethalin and imazethapyr); Plant protection measures (Application of prophenophos+ cypermethrin against leaf eating caterpillar)	Suitable	Very good	70%	No	Yes	Timely availability of seed

### E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
HYV Pigeonpea variety (PRG-176) Medium duration: 150 days; Plant ht:140-227 cm; 50% flowering: 110-125 days; 75% flowering: 160-202 days; seeds brown, oval; 100 seed wt: 10.2-11.2 g; Potential yield:15-16q/ha; Resistant to <i>fusarium</i> wilt and sterility mosaic	Well in farmer's field	Demonstrated technology of improved variety with seed treatment; weed management by herbicides and proper plant protection measures resulted higher grain yield and profit as compared to local check under CFLD programme resulted.	Farmers were convinced with the technology and decided to cultivate this variety in next season with same package of practices.
HYV Greengram (IPM-02-03) released on 2012, Potential yield:12.4q /ha; Duration: 75-80 days, Resistant to YMV.	Excellent in field condition	Demonstrated technology of improved variety with seed treatment; weed management by herbicides and proper plant protection measures resulted higher grain yield and profit as compared to local check under CFLD programme resulted.	Suitability to their farming system
HYV Blackgram (PU-31) released on 2008, Potential yield:12q /ha; Duration: 75-80 days, Resistant to YMV.	The demonstration performed well with higher production and profit	Demonstrated technology of improved variety with seed treatment; weed management by herbicides and proper plant protection measures resulted higher grain yield and profit as compared to local check under CFLD programme resulted.	Farmers were convinced with the technology and decided to cultivate the variety (Prasad) in next season with same package of practices.

### F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Training (Blackgram)	18.09.2019	25
2	Training (Pigeonpea)	05.10.2019	25
3	Field Day (Blackgram)	19.11.2019 ( Kulutakhali)	50
4	Field day (greengram)	20.11.2019( Jadapala)	50





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

**G. Farmers' training photographs**

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

**J. Details of budget utilization**

Crop (provide crop wise information )	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input	2,70,000	2,34,170	Nil
	ii) TA/DA/POL etc. for monitoring		8580	
	iii) Extension Activities (Field day)		11250	
	iv)Publication of literature		16000	
	<b>Total</b>	<b>2,70,000</b>	<b>2,70,000</b>	<b>Nil</b>

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

**A) Farmers and farm women (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			
<b>I. Crop Production</b>													
Balance dose and application of fertilizer in paddy	1	18	-	-	3	-	-	4	-	-	25	-	25
Nursery Management and importance of line transplanting in paddy	1	21	-	-	2	-	-	2	-	-	25	-	25
Chemical Weed Management in Rice with special focus on application methods	1	21	-	-	4	-	-	-	-	-	25	-	25
Pacakage and practices for cultivation of Pigeon pea	1	19	-	-	2	-	-	4	-	-	25	-	25
Soil Health Management	1	19	-	-	2	-	-	4	-	-	25	-	25
Importance of application of boron in maize for increasing the grain filling	1	17	-	-	3	-	-	5	-	-	25	-	25
Package and practices of Rabi Greengram	1	21	-	-	2	-	-	2	-	-	25	-	25
Package & practices of Rabi Mustard	1	16	-	-	4	-	-	5	-	-	25	-	25
Millet cultivation for nutritional security	1	19	-	-	2	-	-	4	-	-	25	-	25
Importance of growing of Sweetcorn	1	19	-	-	2	-	-	4	-	-	25	-	25
Total	10	190	-	-	26	-	-	34	-	-	250	-	250
<b>II. Horticulture</b>													
<b>a) Vegetable Crops</b>													



















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			
Commercial fruit production													
Integrated farming													
Seed production													
Production of organic inputs													
Planting material production													
Vermiculture													
Mushroom Production													
Beekeeping													
Sericulture													
Repair and maintenance of farm machinery and implements													
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others													
<b>Total</b>													

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

Thematic Area	No. of Courses	No. of Participants			Grand Total
		Other	SC	ST	











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				
Freshwater prawn culture														
Shrimp farming														
Pearl culture														
Cold water fisheries														
Fish harvest and processing technology														
Fry and fingerling rearing														
Others														
<b>Total</b>														

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

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														
<b>Total</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







## b) Details of participation

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			
<b>Crop production and management</b>													
Increasing production and productivity of crops													
Commercial production of vegetables													
Production and value addition													
Fruit Plants													
Ornamental plants													
Spices crops													
Soil health and fertility management													
Production of Inputs at site													
Methods of protective cultivation													
Other													
Total													
<b>Post harvest technology and value addition</b>													
Processing and value addition													
Other													
Total													
<b>Farm machinery</b>													
Farm machinery, tools and implements													
Other													
Total													
<b>Livestock and fisheries</b>													
Livestock production and management													
Animal Nutrition Management													
Animal Disease Management													
Fisheries Nutrition													
Fisheries Management													
Other													







Others, please specify.														
Total														

## Production of livestock materials: NA

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted										
				SC		ST		Other		Total				
				M	F	M	F	M	F	M	F			
<b>Dairy animals</b>														
Cows														
Buffaloes														
Calves														
Others (Pl. specify)														
<b>Small ruminants</b>														
Sheep														
Goat														
Other, please specify														
<b>Poultry</b>														
Broilers														
Layers														
Duals (broiler and layer)														
Japanese Quail														
Turkey														
Emu														
Ducks														
Others (Pl. specify)														
<b>Piggery</b>														
Piglet														
Hog														
Others (Pl. specify)														
<b>Fisheries</b>														
Indian carp														
Exotic carp														
Mixed carp														
Fish fingerlings														
Spawn														
Others (Pl. specify)														
<b>Grand Total</b>														

**3.5. b. Seed Hub Programme - "Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India"**

i) Name of Seed Hub Centre: NA

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: NA

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
Book/ Booklet	-	-	-	-
Leaflets	-	-	07	3500
Poster/Flex	-	-	-	-
News letter	-	-	-	-
News paper Coverage	-	-	04	Mass
Popular Articles	-	-	-	-
Technical bulletins	-	-	04	15
Technical report	-	-	06	30



Training material	-	-	-	-
Year planner	-	-	01	20
CDs/ DVDs	-	-	08	200
<b>Total</b>	-	-	<b>30</b>	<b>3765</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:

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Awareness-cum- Skill Development for Management of Fall Army Worm (FAW)	Awareness-cum- Skill Development for Management of Fall Army Worm (FAW)	Jyoti Rekha Mallick Scientist, (Plant Protection)	24.06.2019	Krusha Bhawan, Bhubaneswar
2.	Training of Master Trainers on Safe Use of Pesticides and e-pest Surveillance through Mobile App.	Training of Master Trainers on Safe Use of Pesticides and e-pest Surveillance through Mobile App.	Jyoti Rekha Mallick Scientist, (Plant Protection)	7-8 Aug, 2019	Krusha Bhawan, Bhubaneswar
3.	Behavioural Skills for Scientists of SAU and KVKs	Behavioural Skills for Scientists of SAU and KVKs	Dr. Sutanu Kumar Satapathy Senior Scientist & Head	18 <sup>th</sup> Nov, 2019 to 27 <sup>th</sup> Nov, 2019	MANAGE, Hyderabad
4.	Model Training Course on Integrated Weed Mangement	Model Training Course on Integrated Weed Mangement	Sasmita Priyadarshini SMS, (Agronomy)	12 <sup>th</sup> Dec to 18 <sup>th</sup> Dec, 2019	DWR, Jabalpur
5.	Agro-Ecosystem Analysis for Participatory Planning	Agro-Ecosystem Analysis for Participatory Planning	Dr. Sutanu Kumar Satapathy Senior Scientist & Head	17 <sup>th</sup> Feb, 2020 to 21 <sup>st</sup> Feb, 2020	DEE,OUAT, BBSR
6.	Agro-Ecosystem Analysis for Participatory Planning	Agro-Ecosystem Analysis for Participatory Planning	Mayuri Sing Sardar SMS, (Agrl.Extension)	17 <sup>th</sup> Feb, 2020 to 21 <sup>st</sup> Feb, 2020	DEE,OUAT, BBSR
7.	Farmers Fair -cum -Regional Workshop and Agro-BioDiversity Exhibition	Farmers Fair -cum -Regional Workshop and Agro-BioDiversity Exhibition	Mayuri Sing Sardar SMS, (Agrl.Extension)	7 <sup>th</sup> March, 2020	M.S.Swaminathan Hall, OUAT, BBSR

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	Mridaparikshaka	01
2	Distillation system	
3	Digestion system	
4	Acid neutralization scrubber	
5	Digestion tube	
6	Precision balance	
7	Digital balance	
8	Magnetic stirrer	
9	Rectangular hot plate	

10	Bouycous hydrometer	
11	Flame photometer	
12	Spectrophotometer	
13	Double distillation unit	
14	Distillation apparatus power supply	
15	Rotary shaker	
16	PH,EF,TDS combined meter	
17	Digital soil moisture meter	

## 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			
100	20	120	500	14	-

## 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	World Soil Day	168	18	1. S.J. Lalatendu Mishra, Collector cum District Magistrate 2. Smt. Joshna Rani Bhoi, President Zilla Parishada	48	150

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

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: 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
22.06.2019	Mr. Gobardhan Debata, Deputy Secretary	Nodal Officer Of Boudh District
21.08.2019	Sj. Lalatendu Mishra, Collector-cum- District Magistrate, Boudh	Chief Guest in Web Cast
31.10.2019	Mrs. Banani Mahanty, IAS, Additional Secretary	Review Meeting on Agricultural Activities
26.02.2020	Prof. Sanjay Das, Dean, CAET, OUAT, BBSR	5T Nodal Officer of Boudh District
20.08.2019	Dr. K. Laxminarayan, Principal Scientist, CTCRI, BBSR and Dr. Venkatraman Scientist, CTCRI, BBSR	Distribution and Popularisation of sweet Potato planting materials among farmers and KVK visit
14.11.2019	Sri Lakshyapati Bhoi, DSWO, Boudh	Review of Mission Shakti Training Programme.
31.07.2019	Sri Rama Chandra Mallick, Director, RSETI, Boudh and Ms. Dipti Sagarika Sahu, AHO, Boudh	KVK Farm visit of SHG for Training on Bee Keeping.
27.01.2020	Dr. Hemant Jena, Deputy Director Extension, DEE, OUAT, BBSR	Chairman of SAC meeting

#### 4. IMPACT :NA

##### 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)

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants

##### 4.2. Cases of large scale adoption : NA

(Please furnish detailed information for each case)

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	
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

#### 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.									
2.									
3.									
4.									
5.									
6.									
7.									
	Total								

### 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	

### 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.							
2.							
3.							

### 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)

Total :			

(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	QII	Q III	QIV	Q V	QVI
01.06.2012	3R	E-2	E-2	E-3	E-4	2RA
Alloted to staff of KVK,Boudh						

## 7. FINANCIAL PERFORMANCE

### 7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Current KVK Account	SBI, Baghiapada	Baghiapada, Boudh	11758917116
Revolving Account	SBI, Baghiapada	Baghiapada, Boudh	30586643554

### 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 <sup>st</sup> 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				

<i>D</i>				
<i>E</i>				
<i>F</i>				
<i>G</i>				
<i>H</i>				
<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 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year (Kind + cash)
2015-16				
2016-17				
2017-18				
2018-19				
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

## 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)



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## 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 &amp; 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	36	32508
Livestock	-	
Fishery	-	
Weather	3	32508
Marketing	1	32508
Awareness (COVID-19)	8	32508
Training information	-	
Other	-	
<b>Total</b>	<b>48</b>	<b>32508</b>

9.4. *KVK* Portal and Mobile App

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

## 9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken

b. Details of Swachhta activities with expenditure

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

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 ZilaPan chayat	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)

## 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)

## 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

## 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

## 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:

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

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

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

#### Natural Resource Management

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

#### Crop Management

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

		M	F	M	F	M	F	M	F	T	

## Livestock and fisheries

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

## Capacity building

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

## Extension activities

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

## 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

## 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					
2					

## 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)					
II (up-to 24.04.218)					
Total					

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)

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