ANNUAL REPORT

APRIL 2013 – MARCH 2014

KRISHI VIGYAN KENDRA
BOLANGIR

R.E. FARM, LARKIPALLI, BOLANGIR-767002

Orissa University of Agriculture & Technology

Bhubaneswar-751003

Contents

Instructions for Filling the Format

1. **Do not change/modify/ delete any column of any of the table. However, additional rows can be created, if required**
2. **Do not merge columns, rows.**
3. **Please repeat the name of KVK in each table in the column "Name of KVK"**
4. **Do not fill the non-numerical values in numeric field**
5. **Do not repeat the unit while reporting data as it is already mentioned in the heading row**
6. **Strictly fill the data in desired unit only. If it is reported in other unit, convert it in the desired unit**
7. **Please mention only standard English names of crops (Do not mention Urd, Arhar, Til, Kulthi, Moong, Bajra, etc.)**
8. **Additional relevant information may be provided at the end of Format by creating heading "Additional Information"**
9. **Also read the instructions mentioned just below the table**
10. **Your suggestions for improvement in the format for your simplicity as well as data compilation may be given at the end of the format**
11. **Do not press any Enter Key in any of the columns while making entry in the columns of the table. Use only arrow key /Tab key/ mouse pointer while movement from one column/row to another.**
12. **Gray color cells in summary table need not to be filled.**
13. **Crop name should be spelled correct and standard English name should be used i.e Cereals, Pulses, Oilseed:- Rice (not use Paddy), Wheat, Barley, Kodo, Kutki, Maize, Jwar, Bajra, Pigeon pea (not use Tur, Arhar, Red gram), Blackgram (not use Urd), Greengram (not use Moong/Moongbean), Chickpea (not use Horse gram, Gram, Chana), Field pea, Horse gram (Kulthi), Lentil, Mustard (not use Rai, Sarsoan), Soybean, Linseed, Groundnut, Sesame (not use Til), Niger (not use Ram Til), Safflower (not use Kusum).**
    Vegetable :- Vegetable pea, Bottle guard, Bitter guard, Okra (not use Bhindi or Ladies finger).
    Fruits :- Mango, Guava, Custard apple, Pear etc.
    Spices :- Black Peeper, Turmeric, Ginger, Cardamom etc.

REPORTING PERIOD – April 2013 to March 2014

Summary of KVK Annual Report (Quantifiable Achievement) for the year 2013-14

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
1	**On Farm Testing**			
	Proposed OFT	**16**	180	
	On Going OFT	2	23	
	Technologies assessed (Completed OFT)	12	126	
	Technologies refined	1	13	
	On farm trials conducted	15	162	
2	**Frontline demonstrations**	**16**	**141**	
	Proposed Frontline demonstrations	-	-	
	On Going Frontline demonstrations	-	-	
	FLDs conducted on crops	8	89	
	Area under crops (ha.)	10	89	
	FLD on farm implement and tools	1	10	
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	1	10	
	FLD on Fisheries - Finger lings	4	12	
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	1	10	
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	1	10	
3	**Training programmes**	**No. of Course**	**Duration (days)**	**Participants**
	Farmers	51	52	1275
	Farm women	12	12	300
	Rural youth	10	27	150
	Extension personnel/ In service	8	8	80
	Vocational trainings	2	14	20
	Sponsored Training	-	-	-
	Total	83	113	1825
		No. of programmes	**Participants**	
4	**Extension Programmes**	1185	9600	
5	**Production of technology inputs etc**	**Qty**	**Beneficiaries (nos.)**	
	Seed (qt.) Unprocessed Paddy	307	To be lifted by OSSC, Bhubaneswar	
	Planting material produced (nos.)	157350	73	
6	**Livestock**	**Qty**	**Beneficiaries (nos.)**	
	Livestock strains (Nos)	-	-	
	Milk Yield - Cow, Buffelo etc. (in liter)	-	-	
	Fish (Kg.)	-	-	
	Fingerlings (nos.)	-	-	
	Poultry-Eggs (nos.)	-	-	
	Ducks (nos.)	-	-	
	Chicks etc. (nos.)	-	-	

7	**Bio Products**	**Qty**	**Beneficiaries (nos.)**	
	Bio Agents -Earth worm (Kg.)	31.4 kg	25	
	Trichoderma (kg.)	-	-	
	Bio Fertilizers- Vermi compost, Rhizobium, PSB ,BGA,Mycorriza ,Azotobacter,Azospirillum etc. (Kg.)	1005 kg	20	
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)	**-**	-	
8	**Any other significant achievement in the Zone**	**Nos.**	**Participants/ beneficiaries**	
	Award (Best KVK award and scientist and farmer's award)	-	-	
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	7	3100 copies	
	KVK News letter	3	1500 copies	
	SAC Meetings conducted	1	30	
	Soil sample tested	100	92	
	Water sample tested	-	-	
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)	-	-	
	KVK-KMA (Message and beneficiaries)	144	1050	
	Convergence programmes	2	25	
	Sponsored programmes	-	-	
	KVK Progressive Farmers interaction	2	35	
	No. of Technology Week Celebrations	1(6 nos. activities)	250	
	Attended HRD activities organized by ZPD	1	1	
	Attended HRD activities organized by DES	13	5	
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc).	2	1	
9	Current status of Revolving Funds (Amt. in Rs.)		4,68,026	
10		**No. of blocks**	**No. of villages**	
	Outreach of KVK in the District	11	71	
11		**ICAR**	**SAU**	**Others**
	No. of important visitors to KVK (nos.)	1	2	1
12		**Working (Yes/No)**	**No. of Update**	
	Status of KVK Website	Yes	16	
13		**Application received**	**Application disposed**	
	Status of RTI (nos.)	-	-	
14		**Query received**	**Query dissolved**	
	Citizen Charter (nos.)	21	21	
15		**Working (Yes/No)**	**No. of programme viewed**	
	E-connectivity	No	-	
16		**Filled**	**Vacant**	
	Staff Position	10	6	
17	Workshop/ Seminar/ Conference attended by staff of KVK (nos)			
18	Publication received from ICAR /other organization (nos.)	-		
19		**Particulars**	**Organization**	
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	-	-	

GENERAL INFORMATION

1.1. Staff Position (as on 31.03.14)

Summary of Staff position in KVKs on March, 2014

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Bolangir , Odisha	16	1	1	6	4	3	1	6	4	16	10

Name of KVK.	Sanctioned post	Name of the incumbent	Discipline	Highest degree	Subject of Specialization	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
Bolangir	Programme Coordinator	Dr. Sushant Ku. Patra	Fishery Science	Ph.D.	Aquaculture	15600-8000-39000	15600-8000-39000	31.08.2012	Permanent	SC
Bolangir	Subject Matter Specialist1	Sri Kamalakanta Behera	Agril. Extension	M.Sc(Ag)	Agril. Extension	15600-6000-39000	16250+6000	19.04.2010	Permanent	Others
Bolangir	Subject Matter Specialist2	Smt. Sasmita Purohit	Home Sc	M.Sc (H.Sc.)	Food & Nutrition	15600-6000-39000	21390+6000	11.06.2010	Permanent	Others
Bolangir	Subject Matter Specialist3	Smt. Swagatika Srichandan	Horticulture	M.Sc (Hort)	Vegetable Science	15600-6000-39000	16250+6000	19.08.2011	Permanent	Others
Bolangir	Subject Matter Specialist4	Sri Ashis Kumar Das	Plant Protection	M.Sc(Ag)	Agril. Entomology	15600-6000-39000	21390+6000	26.12.2011	Permanent	Others
Bolangir	Subject Matter Specialist5	Vacant								
Bolangir	Subject Matter Specialist6	Vacant								
Bolangir	Programme Assistant	Vacant								
Bolangir	Farm Manager	Vacant								
Bolangir	Computer Programmer	Sri Rabi Narayan Satapathy	Computer	MCA	Information technology	9300-4200-34000	13060-4200	13.11.2009	Permanent	Others
Bolangir	Accountant / superintendent	Vacant								
Bolangir	Stenographer	Pratima Nayak	Steno-cum-Computer Operator	B.A (Arts)	-	5,200-2400-20200	5200-2400	14.02.2014	contractual	ST
Bolangir	Driver	Biswabasi Sarangi	Driver –cum-Mechanic	Under Matric	-	5,200-1900-20200	5200-1900	14.02.2014	contractual	Others
Bolangir	Driver	Sri Upendra Mishra	Driver –cum-Mechanic	Matric	-	5200-1900-2400	5420	01.04.2011	Permanent	Others
Bolangir	Supporting staff	Sri Sagar Chhatria		Under Matric	-	4440-1300-7440	4620	21.11.2009	Permanent	SC
Bolangir	Supporting staff	Vacant							Permanent	Others

1.2. DISTRICT PROFILE (detail of geographical area, cultivation, Land, resources, opportunities, irrigation, populations etc.)–

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Bolangir	West central table land zone	14	285	1648000	65.5	626240	195112	1.36

1.3. DETAILS OF ADOPTED VILLAGE during the reporting period (Approved by competent Authority in meetings/workshops)

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Bolangir	Uparjhar	2013	Deogaon	32	1207	152
Bolangir	Kaudia	2013	Patnagarh	42	506	90
Bolangir	Saragada	2013	Gudvella	39	634	98
Bolangir	Banabahal	2013	Puintala	20	534	103
Bolangir	Kareldhua	2010	Saintala	35	592	112

1.4. THRUST AREAS identified by KVK (Approved by competent Authority in meetings/workshop)

KVK Name	THRUST AREA
Bolangir	Crop diversification
Bolangir	Integrated Nutrient Management practices
Bolangir	Integrated Disease and Pest Management
Bolangir	Quality seeds and seedling production
Bolangir	Income generating activities for rural women/ school dropouts
Bolangir	Value addition to seasonal vegetables/fruits
Bolangir	Proper health management of domestic animals & birds
Bolangir	Weed management & Soil processing
Bolangir	Substitution of ruling varieties with improved/hybrid varieties
Bolangir	Market linkage and production strategies
Bolangir	Recycling of farm wastes through vermicomposting
Bolangir	Farm mechanization/drudgery reduction of farm women
Bolangir	Off season vegetable cultivation
Bolangir	Promotional of nutritional garden for nutritional security
Bolangir	Introduction of suitable varieties with improved packages of practices
Bolangir	Effective use of family labour through need based livelihood option

1.4. PROBLEM IDENTIFIED by KVK (Approved by competent Authority in meetings/workshop)

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
Bolangir	Severe soil erosion in sloppy uplands	Through PRA tools and Discussion with the group of farmer, farm women and rural youth	Kareldhua, Saintala Kaudia, Patnagarh Uparjhar, Deogaon
Bolangir	Soil acidity - Poor knowledge about soil testing and soil health management	Through District soil map and discuss with line department officers (Soil Chemist) and sample soil testing	Banabahal, Puintala
Bolangir	Non availability of waste land management techniques	Group discussion, PRA in sample villages	Saragada, Gudvella Kaudia, Patnagarh
Bolangir	Low and imbalance use of manures and fertilizers in all crops	Farmers meetings, harvest report, sample testing of crop & discuss with line department officers	Kaudia, Patnagarh Uparjhar, Deogaon
Bolangir	Severe crop weed competition in Kharif upland crops	Discuss with farmers, crop observation, sample study and PRA	Kareldhua, Saintala Banabahal, Puintala
Bolangir	Non availability of adequate inputs (seed, fertilizer, pesticides) in time	Discuss with farmers and fertilizer dealers, discuss with district administration and JQCI of agriculture department	Saragada, Gudvella Uparjhar, Deogaon
Bolangir	Lack of storage facility for fruits and vegetables	Sample study, discuss with district civil officer, discuss with fruit & vegetable merchant, discuss with farmers and horticulture officer	Banabahal, Puintala Saragada, Gudvella Kareldhua, Saintala
Bolangir	Poor nutrient status and low water holding capacity of soil	Discuss with soil chemist & soil scientists of Zonal Research Station & ICAR institute and sample testing of soils of different villages	Kareldhua, Saintala Kaudia, Patnagarh Uparjhar, Deogaon
Bolangir	Lack of irrigation facility during Rabi/Summer except Hirakud command area	Discuss with farmers, discuss with irrigation department & district civil administration and personal observation during field visit.	Banabahal, Puintala Saragada, Gudvella Uparjhar, Deogaon
Bolangir	Low availability and adoption of dryland farming technique	Through PRA tools and Discussion with the group of farmer, farm women and rural youth	Saragada, Gudvella Kaudia, Patnagarh Kareldhua, Saintala
Bolangir	Inadequate knowledge about post harvest technology	Discuss with village leaders and old farmers, discuss with line department, sample observation, personal observation during field visit	Banabahal, Puintala Uparjhar, Deogaon Saragada, Gudvella

2. On Farm Testing

Note-

*** Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.**

***Crop name should be spelled correct and standard English name should be used i.e Chick pea in place of gram/chana , Paddy in place of Rice/chawal , brinjal in place of egg plant/bhata/baigan etc.**

***Don't press enter key to navigate among column use arrow or tab key**

***don't add space before or after statement within the table cell**

2.1 Information about OFT

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Thematic Area	Crop/ enterprise	Farming Situations	No. of trials	Results (q/ha)		Net Returns (Rs./ha)		Recommendations
										FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	
Bolangir	2013-14	Kharif	Low yield of banana due to inadequate uptake of nutrients	Assessment of Bunch feeding in Banana	**Assessment**	Integrated Nutrient Management	Crop	Irrigated upland	13	510	675	270450	465000	Slurry of (Pottasium sulphate 7 gm+ cowdung 500gm) kept in a polythene and bunch fed to Banana.
Bolangir	2013-14	Rabi	Low yield due to high weed infestation & incidence of diseases & pest	Assessment of Polymulching in Tomato	**Assessment**	Plasticulture in Vegetables	Crop	Irrigated upland	13	304	375	84500	108500	Bicolour Poly mulching along the inter spaces of rows reduces weed infestation considerably and conserves moisture
Bolangir	2013-14	Rabi	Low yield from local variety due to Small size of bulb	Assessment of performance of Onion var. Agrifound Light Red	**Assessment**	Varietal Performance	Crop	Irrigated upland	10	260	310	95900	120550	Local onion with small bulb size Seed Rate 15 kg/ ha., Spacing of 20x10 cm.
Bolangir	2013-14	Summer	Low yield from water melon due to inadequate nutrient uptake leading to small fruit size	Assessment of performance of N-benzene in watermelon	**Assessment**	Integrated nutrient Management	Crop	Irrigated upland	10	0	0	0	0	Continuing
Bolangi	2013-	Kharif	Low yield of	Assessment of	**Assessment**	Integrated	Crop	Rainfed upland	13	12.8	15.05	38100	45725	ST by Imidacloprid

r	14		Cotton due to severe infestation of sucking insect pests	IPM strategy against sucking pests of Cotton		Pest management								@ 5gm/kg seed, Stem application of Monocrotophos@ 1:4 dilution at 20,40,60 DAS, erection of yellow trap @ 20/ ha.
Bolangir	2013-14	Kharif	Low yield of Pigeon pea due to moderate to severe infestation of Pod fly	Assessment of chemical management against Pod fly in Pigeon pea	**Assessment**	Integrated Pest management	Crop	Rainfed upland	13	5.31	7.51	19860	31060	Need based spray of Profenophos @ 2ml/lit against larva and Triazophos @ 2 ml/lit against adult
Bolangir	2013-14	Kharif	Low yield of Paddy due to severe BPH infestation	Assessment of alley formation with application of Buprofezin against management of BPH in Paddy	**Assessment**	Integrated Pest management	Crop	Irrigated medium land	6	30.36	38.9	8396	14090	Making alley at every 3 mt. row interval and spray of Buprofezin @ o.g gm/lit at incidence of brown plant hoppeer
Bolangir	2013-14	Rabi	Low yield from Cauliflower due to severe infestation of DB moth and difficulty in sowing mustard +Cauliflower in 2:25 ratio	Refinement of IPM strategy in management of Diamond back moth in Cauliflower	**Refinement**	Integrated Pest management	Crop	Irrigated upland	13	332.5	367.46	167759	188222	Growing of mustard along the field bunds of Cauliflower 15 days before transplanting of Cauliflower and need based spraying of Spinosad 45 SC @ 0.4 ml/lit
Bolangir	2013-14	Kharif	Off –flavour and bloom infestation in fish pond	Assessment of efficacy of probiotics in Composite Carp culture	Assessment	Production and management	Enterprise	Perennial fish pond	2	25.2	28.2	128780	148280	Probiotics improved water quality, % survival & productivity
	2013-14	Kharif	Involvement of more expenditure as the cost of ingredients is increasing	Assessment of FCR of slow sinking crumble feed in fish fry to fingerling rearing tanks	Assessment	Nutrition Management	Enterprise	Seasonal fish nursery pond	2	15.12	17.04	148500	204500	Sinking feed improved the survival % as well as reduce production cost
Bolangi	2013-	Rabi	Release of	Assessment	Assessment	Integrated	Enterprise	Perennial fish	2	25.8	28.5	133500	157400	Zeolite improved

r	14		obnoxious gases from pond bottom sludge leads disease outbreak in fishes in winter	of Zeolite application in Composite carp culture		Disease Management		pond						water quality, % survival & productivity
Bolangir	2013-14	Rabi	Slower growth of rohu leads longer culture duration in composite carp culture pond	Assessment of growth of Jayanti rohu in Composite carp culture	Assessment	Production and Management	Enterprise	Perennial fish pond	2	25.7	28.9	132000	164000	27% higher growth & 5% increase in survival was estimated against normal rohu

2.2 Economic Performance

KVK name	OFT Title	Parameters			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		Name and unit of Parameter	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)
Bolangir	Assessment of bunch feeding in Banana	Number of fingers/kg	8.5	7	178350	210000	0	448800	675000	0	270450	465000	0	2.5	3.2	0
Bolangir	Assessment of Polymulching in Tomato	Weed biomass/m^2 at 30DAT ,Gm	117	26.7	79000	67500	0	187500	152000	0	108500	84500	0	2.2	2.37	0
Bolangir	Assessment of performance of Onion var. Agrifound Light Red	Days to Maturity, No.	175	160	60100	65450	0	156000	186000	0	95900	120550	0	2.59	2.84	0
Bolangir	Assessment of performance of N-benzene in watermelon	Continuing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bolangir	Assessment of IPM strategy	Whiteflies / Plant, No.	68.5	27.83	19500	22000	0	57600	67725	0	38100	45725	0	2.95	3.07	0

	against sucking pests of Cotton															
Bolangir	Assessment of chemical mangt. against Pod fly in Pigeon pea	Larvae/ Plant, No	3.02	1.88	12000	14000	0	31860	45060	0	19860	31060	0	2.65	3.21	0
Bolangir	Assessment of alley formation with application of Buprofazin against management of BPH in Paddy	Nymphs/	3.12	1.72	25000	28700	0	33396	42790	0	8396	14090	0	1.33	1.49	0
Bolangir	Refinement of IPM strategy in management of Diamond back moth in Cauliflower	Size of curd and Gm.	667.7	785.38	65000	0	69000	232750	0	257222	167750	0	188222	3.58	0	3.73
Bolangir	Assessment of efficacy of probiotics in Composite Carp culture	pH (digit)	7.2	7.6	123220	133720	0	252000	282000	0	128780	148280	0	2:1	2.1:1	0
Bolangir	Assessment of FCR of slow sinking crumble feed in fish fry to fingerling rearing tanks	Survival (%)	63	71	135000	115000	0	283500	319500	0	148500	204500	0	2:1	2.7:1	0
Bolangir	Assessment of Zeolite application in Composite carp culture	pH (digit)	6.9	7.5	124500	127600	0	258000	285000	0	133500	157400	0	2:1	2.2:1	0
Bolangir	Assessment of growth of Jayanti rohu in Composite carp culture	ABW (total)(gm)	628	704	125000	125000	0	257000	289000	0	132000	164000	0	2:1	2.3:1	0

2.3 Information about Home Science OFT:

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Thematic Area	Details of Technology Selected for Assessment	Characteristics of Technology / Variety / Product / Enterprise	Farming / Enterprise Situation	No. of trials	Recommendations
Bolangir	2013-14	Rabi	Low income from bumper harvest of Lemon leading to low sale price	Assessment of Potassium meta bisulphate for keeping quality of lemon squash	**Assessment**	Value addition	Increasing keeping quality of lemon products by addition of potassium metabisulphite as preservative	Mixing of 1.2 gm. of potassium metabisulphite in 0.5 kg pure extract of lemon juice	Enterprise	13	Surplus produce of Lemon may be preserved in form of squash and product can be stored for one year without deterioration of quality
Bolangir	2013-14	Rabi	Low income of farm women due to distress sale of Oyster mushroom	Assessment of Keeping quality of Oyster mushroom by dehydration	**Assessment**	Value addition	Increasing keeping quality of Mushroom by dehydration technique	Washing mushroom in clean water, blanching in salt solution @ 20 gm / lit for 2 to 3 mins followed by treatment in Potassium solution @ 8gm/lit for 15-20 mins, and sundrying	Enterprise	13	Mushroom may be safely stored for 6-8 months without loss of colour and nutrition by this dehydration technique.
Bolangir	2013-14	Rabi	High drudgery and low efficiency of farmwomen involved in threshing sunflower manually	Assessment of Sunflower thresher for drudgery reduction of farmwomen	**Assessment**	Drudgery reduction	Threshing of Sunflower through mechanical thresher	Thresher is having weight 1.5 kg, time and labour saving farm implements with dimension of 24x24x6 inches	Enterprise	13	Sunflower thresher may be used for Drudgery reduction and time saving.

2.4 Economic Performance Home Science OFT:

KVK name	OFT Title	Performance Indicator / Parameter																					
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input(Rs)		Incremental income (Rs)		Yield(Kg/ha)		Net Return Rs		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
Bolangir	Assessment of Potassium meta bisulphate for keeping quality of lemon squash #	0	0	0	0	0	0	0	0	0	0	5	5	1000	1100	2000	3000	2	2	1000	1900	900	2.72
Bolangir	Assessment of Keeping quality of Oyster mushroom by dehydration ##											10	3	300	400	800	1500	2	0.6	500	1100	700	3.75
Bolangir	Assessment of Sunflower thresher for drudgery reduction of farmwomen	1.8 kg/hr	5 kg/hr	11.15	9.08	125	112	0	18	0	177	0	0	0	0	0	0	0	0	0	0	0	0

Production per unit : Litre of juice/ 10 kg lemon(i.e. unit) , **Yield (Kg/ha.)** : Finished product of squash/ kg of lemon T1 : keeping period 1 month, T2: keeping period 12 months

Production per unit : Kg of fresh mushroom / 10 beds(i.e. unit), **Yield (Kg/ha.)** : Yield / bed T1 : Fresh mushroom T2 : Dry mushroom

2.5 Feedback from KVK to Research System

Name of KVK	Feedback
Bolangir	Development of indeterminate variety of Tomato
Bolangir	Development of more acidic and thick skinned variety of Tomato
Bolangir	Development of low bolting variety of Onion in Kharif and Rabi season
Bolangir	Development of Pheromone lures for Cabbage borer
Bolangir	Development of Suitable intercrop technology for management of sucking pests of Cotton
Bolangir	Development of mechanical trap for Blister beetle infesting Pigeon pea crop
Bolangir	Effect of potassium metabisulphite may be tested on other fruits(other than Lemon) for preservation purpose
Bolangir	Sunflower thresher of adjustable height and width may be developed.
Bolangir	Moisture content measuring implement may be developed for Mushroom

3. Achievements of Frontline Demonstrations

3.1. Follow-up for results of FLDs implemented during previous years

KVK Name	Crop/ Enterprise	Thematic Area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
Bolangir	Crop	Weed management	Application of pretilachlor @ 1.2lit/ha at 3-5DAT, one hand weeding at 30DAT in Paddy	Field day, Training to extension functionaries, Diagnostic visit	10	105	60
Bolangir	Crop	Integrated Disease Management	Seed treatment with Tricyclazole @ 2.5g/kg seed, spraying of Tricyclazole@ 0.6 g/lit against Blast disease in Paddy	Field day, Training to extension functionaries, FLD, Training, publn. of literature	7	80	100
Bolangir	Crop	Ornamental Horticulture	Cultivation of marigold var. Pusa Basanti	Field day, extension functionaries, media coverage	20	220	15
Bolangir	Crop	Micronutrient Management	Boron application in Cabbage i.e. application of Borax @ 2.5 gm/ lit. as foliar spray twice i.e. at 25 DAT & 35 DAT	Field day, extension functionaries, training	40	80	35

Bolangir	Crop	Integrated Disease Management	Seed treatment with Mancozeb @ 3gm/lit for 10 min need based application of Metalaxyl + Mancozeb @ 2.5 gm/lit and Carbendazim + Mancozeb @ 1 g,/lit alternatively @ 12 days interval against leaf blight in Potato	Field day, Training to extension functionaries, Diagnostic visit	20	85	110
Bolangir	Crop	Varietal substitution	Seed rate @ 20 kg/ha, 60x30 cm spacing, Seed treatment with Azotobacter,Soil test based RDF in Maize	Field day, Training to extension functionaries, Diagnostic visit	120	540	270
Bolangir	Crop	Integrated Nutrient Management	Application of Molybdenum @ 2 gm/lit at 25DAT & 35 DAT in Cauliflower	Field day, Training to extension functionaries, Diagnostic visit	38	320	120
Bolangir	Crop	Varietal substitution	Package demonstration on tomato var. Utkal Raja, spacing , 60x40 cm	Field day, Training to extension functionaries, Diagnostic visit	50	400	80
Bolangir	Enterprise	Paddy Straw Mushroom	Disinfect the paddy bundles in 100 lts of water with 50 ml of formalin and 8 gms of Carbendazim for 12 hrs, Drained after absorbing excess water	Field day, Training to extension functionaries, Diagnostic visit	60	180	5000 beds
Bolangir	Enterprise	Farm Mechanisation	Use of 6.5 hp self propelled Power weeder in Cotton for weeding in cotton, having working capacity 0.13 ha/hr with working width varies from (33-70) cm.	Field day, Training to extension functionaries, Diagnostic visit	40	450	800
Bolangir	Enterprise	Farm Mechanisation	Rotavator of Width 1.45 mt, and working capacity 0.4 ha/hr takes power from PTO shaft of tractor. Good seed bed preparation with involvement of less labour, time and cost, in Paddy crop	Field day, Training to extension functionaries, Diagnostic visit	32	220	200

Note-

*** Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.**

***Crop name should be spelled correct and standard English name should be i.e Chick pea in place of gram, Paddy in place of Rice , brinjal in place of egg plant etc.**

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3.2 Details of FLDs implemented

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/ Technology/ Entreprizes	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
Bolangir	2013-14	Kharif	Integrated Weed management	Pre emergence application of weedicide Pendimethalin @ 2.5 lit./ ha	Onion	Agrifound Dark Red	2	326	367	12.6	2	2	6	-	10
Bolangir	2013-14	Kharif	Integrated Nutrient Management	Application of Azotobacter , Azospirillum & PSB @ 1 kg each incubated with 75 kg of FYM for 7 days and applied in the soil per hectare	Brinjal	Utkal Keshari	1	345	397	15.1	2	2	4	-	8
Bolangir	2013-14	Kharif	Integrated Pest management	Rope dragging to dislodge leaf folders, Soil application of Fipronil @ 20 kg/ha., Release of Trichogramma parasite @ 50000/ha three times at 10 days interval, need based spraying of Monocrotophos @ 2ml/lit.	Paddy	MTU-1010	2	37.2	43.07	15.78	3	3	4	-	10
Bolangir	2013-14	Kharif	Integrated Pest management	Application of 4-5 granules of carbofuran per whorl, Erection of bird percher @ 10/ha, need based application of Profenophos @ 2ml/lit	Maize	Hi-shell	2	27.88	33.73	20.9	3	3	4	-	10
Bolangir	2013-14	Kharif	Integrated Pest Management in Fishery	Demonstration of synthetic pyrethroid for control of aquatic insects in carp nursery tanks	Fish seed production	Application of synthetic pyrethroid (High-Cis-Cypermethrin-10%W/V) @100ml/ha-m 12hours before stocking of spawns	0.6	35	40	14.28	1	1	1	-	3
Bolangir	2013-14	Kharif	Fish Nutrition Management	Demonstration of floating pelleted fish feed in carp culture	Composite carp culture	Feeding with floating pelleted feed @2-1%of total biomass	0.6	24.8	30.1	21.37	-	-	1	2	3

Bolangir	2013-14	Kharif	Fish Production and Management	Demonstration of stunted yearlings in composite carp culture	Composite carp culture	Stocking of stunted yearlings(30-40 gms) @7500/ha in seasonal ponds	0.6	22.4	30.7	37.05	1	-	2	-	3
Bolangir #	2013-14	Rabi	Fish Production and management	Demonstration of polyculture of Freshwater prawn *Macrobrachium rosenbergii* with Indian Major carps	Polyculture of prawn with IMC	Stocking of prawn juveniles @ 10000 nos/ha and then stocking of Catla & Rohu @ 3000 nos/ha after one month	0.6	24.2	26.5	9.5	-	-	2	1	3
Bolangir	2013-14	Rabi	Varietal substitution	Seed rate of hybrid Capsicum @ 300 gm/ha, Transplanting at spacing of 60x30 cm, Soil test based fertilizer, Vermicompost	Capsicum	Ujjwal	0.5	203	257	26.6	2	5	8	-	15
Bolangir	2013-14	Rabi	Varietal substitution	Demonstration of Broccoli in place of Cauliflower(var. Snow ball), Spacing 60x 30cm, seed rate 500gm/ ha ,RDF 200-150- 75kg/ha	Broccoli	PUSA KTS-1	0.5	305	150	-50.1	3	2	10	-	15
Bolangir	2013-14	Rabi	Integrated Pest management	Spraying of COC 3gm/lit after fruit is harvested , At the time of flowering first spray carbendazim @ 1.5 gm/lit and Mancozeb 3 gm /lit after 15 days to contain Anthracnose disease	Mango	Amrapali	0.5	awaited	-	-	3	-	3	-	6
Bolangir	2013-14	Rabi		Destruction of infested shoots, Erection of Pheromone trap @ 20/ha. Need based spraying of cartap hydrochloride @ 1.5 gm/lit and triazophos @ 2.5 ml/lit alternately at 10 days interval	Brinjal	Chhaya	1.5	271	308.4	13.8	6	2	-	7	15

 # Fish equivalent yield i.e. From Fish : 18.1 q/ha From Prawn: 3 q/ha

3.3 Economic Impact of FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
Bolangir	Pre emergence application of weedicide Pendimethalin @ 2.5 lit./ ha	Onion	Weed biomass /m^2 30 DAT, gm ;Weed biomass /m^2 at 60 DAT, gm ;Weed biomass /m^2 at 90 DAT, gm ;	120,114.7,149	32.5, 26.3, 50.4	65,430	57,635	195600	220200	130170	162565	2.9	3.8
Bolangir	Application of Azotobacter , Azospirillum & PSB @ 1 kg each incubated with 75 kg of FYM for 7 days and applied in the soil per hectare	Brinjal	Root weight, gm ; Fruiting Period, months	150,4	289,6	88900	89900	207000	238200	118100	148300	2.32	2.64
Bolangir	Rope dragging to dislodge leaf folders, Soil application of Fipronil @ 20 kg/ha., Release of Trichogramma parasite @ 50000/ha three times at 10 days interval, need based spraying of Monocrotophos @ 2ml/lit.	Paddy	Leaf folders / sq.mt, No. ; Extent of infestation,%	5.46;27.4	3.56 ; 15.1	28400	30000	40722	47377	12322	17377	1.43	1.58
Bolangir	Application of 4-5 granules of carbofuran per whorl, Erection of bird percher @ 10/ha, need based application of Profenophos @ 2ml/lit	Maize	Dead Hearts, % ; Infested leaves,%	16.8; 22.05	11 ; 15	15000	17500	29274	35416	14274	17916	1.95	2.02

Bolangir	Demonstration of synthetic pyrethroid for control of aquatic insects in carp nursery tanks	Fish seed production	Survival (%)	35	40	70000	71000	210000	240000	140000	169000	3:1	3.3:1
Bolangir	Demonstration of floating pelleted fish feed in carp culture	Composite carp culture	FCR(ratio);ABW (gm)	1.0, 620	1.5; 750	120000	112000	248000	301000	128000	199000	2:1	2.6:1
Bolangir	Stocking of stunted fingerlings(40-50gm size) @10,000/ha of water area with bag feeding @ 3-5% biomass twice /day in 1st month and1-3 % of biomass in succeeding months	Composite carp culture	ABW/month (gm) ; Survival (%)	80; 80	129; 95	110000	136000	224000	307000	114000	171000	2.03:1	2.3:1
Bolangir	Demonstration of polyculture of Freshwater prawn *Macrobrachium rosenbergii* with Indian Major carps	Polyculture of prawn with IMC	ABW (fish) (gm); ABW(prawn) (gm), Fish Survival (%) , Prawn Survival (%)	605, 80,0	700, 90, 50	120000	132000	242000	279000	122000	147000	2.01:1	2.11:1
Bolangir	Seed rate of hybrid Capsicum @ 300 gm/ha, Transplanting at spacing of 60x30 cm, Soil test based fertilizer, Vermicompost	Capsicum	Harvesting time, (days after transplant), Fruit diameter, (cm),Skin thickness (cm)	57, 6.1, 0.4	46,8.5, 0.7	68190	77320	243600	308400	175410	231080	3.6	3.9

Bolangir	Demonstration of Broccoli in place of Cauliflower(var. Snow ball), Spacing 60x 30cm, seed rate 500gm/ ha ,RDF 200-150-75kg/ha	Broccoli	Number of curd/plant, No.	1	3	68375	82350	213500	300000	145125	217650	3.1	3.6
Bolangir	Spraying of COC 3gm/lit after fruit is harvested , At the time of flowering first spray carbendazim @ 1.5 gm/lit and Mancozeb 3 gm /lit after 15 days to contain Anthracnose disease	Mango	Extent of inflorescence damage, % ,Fruits , retention/flowering bunch, nos.	25.33, 5.5	15.33, 10.83	-	-	-	-	-	-	-	-
Bolangir	Destruction of infested shoots, Erection of Pheromone trap @ 20/ha. Need based spraying of cartap hydrochloride @ 1.5 gm/lit and triazophos @ 2.5 ml/lit alternately at 10 days interval	Brinjal	Extent of terminal shoot infestation, % , Fruits infested / plant, No.	22.6, 1.58	12.93, 1.09	60000	65000	189000	215880	129700	150880	3.16	3.33

3.4 Information about Home Science FLDs

KVK name	Year	Season	Thematic Area	Problem Identified	Crop/ Enterprise (In which crop Enterprise or Farming Activity)	Name of Variety/ Technology/ Entreprizes	Technology to be Demonstrated as Solution to the Identified Problem	Farming Situation	Proposed area (ha)	No. of Beneficiaries
Bolangir	2013-14	Kharif	Paddy Mushroom cultivation	Low spread of Mushroom cultivation due to inadequate availability of paddy straw of desired size arising out of threshing in ground by Tractor/ bullock	Enterprise	*V. volvacea*	Use of loose straw obtained from threshing floor by , disinfecting the loose straw bundles in100 lits of water with50 ml of Formaline+8 gm of Carbendazim for 3-4 hrs, excess water drained , kept upto 8-10 hrs, prepare the bed upto 2 feet long as bedding material, 200 gm spawn per/bed used	Homestead	300 beds	10
Bolangir	2013-14	Kharif	Backyard poultry	Low income of farmwomen due to adoption of low productivity of local breed	Enterprise	Banaraja	Rearing of 15 days old chicks with proper vaccination & feed management	Homestead	300 chickss	10
Bolangir	2013-14	Rabi	Oyster mushroom cultivation	Unavailability of desired quality of paddy straw restricst Oyster mushroom cultivation	Enterprise	*P .sajorcaju*	Mushroom cultivation on Maize substrate by chopping stover into 2 inches size ,soaking for 20 hrs, boiled for 30 mins ,drained excess water, and bed is prepared	Homestead	300 spawn bottles	10
Bolangir	2013-14	Rabi	Drudgery reduction	Low efficiency of farmwomen involved in maize shelling manually	Enterprise	Falcon Maize Sheller	Hand operated tool to shell maize from dehusked cob having wt. 220 gm,the sheller is held in left hand and cob held in right hand is insertsd into it with forward and backward twist to achieve the shelling	Backyard	70 nos	10

KVK name	FLD Title	Performance Indicator / Parameter																					
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input(Rs)		Incremental income(Rs)		Yield(Kg/ha)		Net Return Rs		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
Bolangir	Demonstration of Paddy straw mushroom by using loose straw #											15	30	1200	1200	2400	4800	15	30	1200	3600	2400	4.0
Bolangir	Demonstration of Dual purpose backyard poultry – Banaraja ##											1050	3540	900	1050	6600	12750	30	105	5700	11700	6000	11
Bolangir	Demonstration of Oyster mushroom cultivation by maize stover as substrate ###											54	42	900	900	4320	3360	54	42	3420	2460	960	3.73
Bolangir	Demonstration of Maize Sheller for drudgery reduction	17	27	5.27	6.06	88	93		18		58												

3.5 Economic Performance Home Science FLDs:

**Production per unit** : Kg/ 30 beds(i.e. unit) , **Yield (Kg/ha.)** : kg/ 30 beds (i.e. unit)

**Production per unit** : no.of eggs / 30 birds(i.e. unit), **Yield (Kg/ha.)** : body weight in kg / 30 birds/year (i.e. unit)

**Production per unit** : Kg/ 30 beds(i.e. unit) , **Yield (Kg/ha.)** : kg/ 30 beds (i.e. unit)

3.6 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Bolangir	Paddy straw mushroom	Field day , Farmers Training	2	65	Demonstration beneficiaries selected from the trainees
Bolangir	Banaraja poultry	Field day , Farmers Training	2	65	Demonstration beneficiaries selected from the trainees
Bolangir	Oyster mushroom	Field day, Farmers Training	2	65	Farmers group meeting conducted
Bolangir	Maize Sheller	Field day	1	40	Only field day , no training conducted
Bolangir	Onion	Field day Farmers Training	3	90	Demonstration beneficiaries selected from the trainees
Bolangir	Brinjal	Field day Farmers Training	2	65	Demonstration beneficiaries selected from the trainees
Bolangir	Capsicum	Farmers Training	2	40	Farmers group meeting conducted
Bolangir	Broccoli	Farmers Training	3	50	Farmers group meeting conducted
Bolangir	Pigeon pea	Field day , Farmers Training,Group meeting	4	118	Demonstration beneficiaries selected from the trainees
Bolangir	Paddy	Field day Farmers Training	4	115	Demonstration beneficiaries selected from the trainees
Bolangir	Maize	Field day Farmers Training	2	65	Demonstration beneficiaries selected from the trainees
Bolangir	Mango	Field day Farmers Training	2	65	Demonstration beneficiaries selected from the trainees
Bolangir	Composite Pisciculture	Field day Farmers Training	2	65	Demonstration beneficiaries selected from the trainees

3.7 Details of FLD on crop hybrids.

S. No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.
1.	Bolangir	Tomato	Nidhi	Krusidhan, Karnataka	13	0.5
2.	Bolangir	Capsicum	Ujjwal	Know You, Taiwaan	15	0.5

4. Feedback System

4.1. Feedback of the Farmers to KVK

Name of KVK	Feedback			
	Technology appropriations	**Methodology used**	**Benefits of OFT/FLD**	**Future Adoption**
Bolangir	Whorl application of granular pesticide, phorate to contain maize stem borer	Application through a perforated tin can , manually	Incidence of dead heart decreased by 34% and yield increased by 22%	Expected adoption in 200 ha. of Maize
Bolangir	Release of *Trichogramma chilonis* to parasitize leaf folder eggs in Paddy	Stapling of Tricho-cards in the bottom portion of leaves	Farmers could notice that no. of leaf folders/sq.mt decreased by 45% and no. of pesticide spray decreased by two, saving Rs 2500/- per ha.	Expected adoption in 50 ha. of Paddy provided the University could supply the Parasite.
Bolangir	Raising of thick rows of mustard along the field bunds as trap crop for Diamond Back Moth in Cauliflower	Sowing of Mustard seeds in field bunds of Cauliflower 15 days before transplanting .	Infestation of Diamond Back Moth was shifted to Mustard and additional yield of 5 kg mustard/ ha. from bunds	Expected adoption in 25 ha. of Cauliflower
Bolangir	Nutritional supplement in Banana to increase finger size.	Bunch feeding in Banana @ 500 gm cowdung, 7.5 gm Urea , 7.5 gm Pottasium Sulphate / plant, Application of 0.4 % glycel through drip irrigation	Increase of weight of Banana bunch from 20.5 kg to 25.6 kg	Expected adoption in 90 ha. of banana orchard
Bolangir	Paddy straw Mushroom cultivation through loose straw	Loose Paddy straw straw instead of neatly cut straw was used in growing Paddy straw mushroom	Yield obtained at par with the method using well cut paddy straw i.e. 1.3 kg/ bed.	Expected adoption by 500 farm families as loose straw is available adequately wrt straw in bundles .

4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
Bolangir	Suitable trap technology in form of sex pheromone may be developed for Blister beetle infesting Pigeon pea
Bolangir	Integrated pest management strategy for sucking pests complex in Cotton may be developed as these have been developing resistance to many insecticides .
Bolangir	A substitute of Buprefezin wrt low cost may be developed to contain brown plant hopper
Bolangir	Mass production of lady bird beetles in the laboratory and suitable for innundative release in field condition
Bolangir	Development of more acidic and thick skinned variety of Tomato
Bolangir	Development of low bolting variety of Onion in Kharif and Rabi season
Bolangir	Effect of potassium metabisulphite may be tested on other fruits(other than Lemon) for preservation purpose
Bolangir	Sunflower thresher of adjustable height and width may be developed.

4. Documentation of the need assessment conducted by the KVK for the training programme

Name of KVK	Category of the training	Methods of need assessment	Date and place	No. Of participants involved
Bolangir	FW	Group meeting of Farmers	10.04.13/ Salepali	20
Bolangir	FW	Group meeting of Farmers	20.04.13/ Uparjhar	43
Bolangir	RY	Group discussion, survey	9.05.13 / Saragada	28
Bolangir	FW	Group discussion	20.05.13/ Pipili	25
Bolangir	FW	Group meeting of Farmers	09.06.13/ Kaudia	30
Bolangir	IS	Meeting with Extension Personnels	21.06.13/ DDA Office	12
Bolangir	FW	Group discussion, survey	7.07.13/ Kaudia	12
Bolangir	FW	Group meeting of Farmers	16.7.13/Saragada	40
Bolangir	FW	Group discussion, survey	09.08.13/ Saragada	25
Bolangir	FW	Group meeting of Farmers	19.8.13/Hardatal	15
Bolangir	FW	Group discussion,	10.09.13/ Saragada	25
Bolangir	FW	Group meeting of Farmers	22.09.13/ Uparjhar	19
Bolangir	IS	Meeting with Extension Personnels	20.10.13/ ADH office	08
Bolangir	FW/RY	PRA	31.10.13/Kaudia	46
Bolangir	FW/RY	PRA	01.11.13/ Uparjhar	34
Bolangir	FW/RY	PRA	13.11.13/Saragada	25
Bolangir	FW/RY	PRA	15.11.13/ Banabahal	29
Bolangir	FW	Group discussion, survey	30.12.13/ Banabahal	10
Bolangir	RY	Group meeting of Farmers	03.01.14/ Kareldhua	33
Bolangir	FW	Group meeting of Farmers	05.01.14/ Uparjhar	18
Bolangir	FW	Group discussion, survey	03.02.14/ Kareldhua	22

Abbreviation Used

FW	(A) Farmers & Farm Women
RY	(B) Rural Youths
IS	(C) Extension Personnel
ONC	On Campus Training Programme
OFC	Off Campus Training Programme
M	Male
F	Female
T	Total
Thematic Areas for Training	
CRP	Crop Production
HOV	Horticulture – Vegetable Crops
HOF	Horticulture-Fruits
HOO	Horticulture- Ornamental Plants
HOP	Horticulture- Plantation crops
HOT	Horticulture- Tuber crops
HOS	Horticulture- Spices
HOM	Horticulture- Medicinal and Aromatic Plants
SFM	Soil Health and Fertility Management
LPM	Livestock Production and Management
WOE	Home Science/Women empowerment
AEG	Agril. Engineering
PLP	Plant Protection
FIS	Fisheries
PIS	Production of Inputs at site
CBD	Capacity Building and Group Dynamics
AGF	Agro-forestry
OTH	Others
RYH	Rural Youth
EXP	Extension Personnel

5. TRAINING PROGRAMMES

1. **Training programmes should be strictly covered under above mentioned thematic areas only,**
2. **For category, training type and thematic area, mention code/abbreviations only**

Table 5.1. Details of Training programmes conducted by the KVKs

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Bolangir	FW	OFC	CRP	Weed management in paddy	1	1	5		4		14		2	
Bolangir	FW	OFC	CRP	Production technology in SRI	1	1	10		10		5			
Bolangir	RYH	ONC	CRP	Seed production technology in paddy	1	2			3		2		10	
Bolangir	FW	OFC	CRP	Nutrient Management practices of Blackgram	1	1	1		2				22	
Bolangir	FW	OFC	CRP	Fertilizer management in crop Pigeon pea	1	1			5				20	
Bolangir	FW	OFC	CRP	Seed treatment & nutrient Management practices of Sunflower	1	1			6		4		15	
Bolangir	FW	OFC	CRP	Management of practices of groundnut	1	1	5		3		2		15	
Bolangir	FW	ONC	AGF	Silviculture model for backstead of rural household	1	1	4	1	1	5			12	2
Bolangir	FW	OFC	AEG	Role of drip irrigation and water use efficiency	1	1			1		1		23	0
Bolangir	FW	ONC	AEG	Management of water harvesting structure in rainfed area	1	1				6				19
Bolangir	FW	OFC	SFM	Soil sampling technique	1	1	1		5		7		12	
Bolangir	FW	PFSC	SFM	Management of acidic soil	1	1	5		5		4		11	
Bolangir	FW	ONC	SFM	NPK value of complex fertilizers	1	1			7		2		16	
Bolangir	FW	ONC	SFM	Collection technique of representative soil sample	1	1	4		5		3		13	
Bolangir	FW	ONC	SFM	Soil test based fertilizer management	1	1	5				2		17	1

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Bolangir	FW	ONC	SFM	Nutrient different symptom & its amelioration	1	1			6	0	4	0	15	0
Bolangir	FW	ONC	HOV	Use of mulching in horticulture crops	1	1	1	0	6	0	2	0	16	0
Bolangir	FW	OFC	HOV	Technique of off –season cultivation of onion	1	1	6	0	6	0	3	0	10	0
Bolangir	FW	OFC	HOV	Herbicide application in onion	1	1	4	0	4	0	5	0	12	0
Bolangir	FW	OFC	HOV	Fertilizer management is pointed gourd	1	1	0	0	5	0	1	0	19	0
Bolangir	FW	OFC	HOV	Offseason cultivation of okra										
Bolangir	FW	OFC	HOV	Protray seedling raising in cruciferous vegetable	1	1	10	0	5	0	10	0	0	0
Bolangir	RYH	ONC	HOV	Production of low volume & high value crops	1	2	5	0	5	0	5	0	0	0
Bolangir	FW	OFC	HOV	Cultivation technique of hybrid capsicum	1	1	0	0	0	0	0	0	25	0
Bolangir	EXP	ONC	HOV	Cultivation of recent released varieties of vegetables	1	1	0	0	3	0	0	0	7	0
Bolangir	FW	OFC	HOV	Role of plant growth regulators in cauliflower										
Bolangir	FW	OFC	HOV	Importance of micronutrients in cruciferous vegetable	1	1	0	0	0	0	0	0	25	0
Bolangir	FW	OFC	HOV	Seed extraction technique in tomato	1	1	10	10	0	3	0	2	0	0
Bolangir	FW	OFC	HOV	Forcing watermelon ,out of season	1	1	2	0	9	0	4	0	10	0
Bolangir	FW	OFC	HOF	Management of Mango orchard	1	1	7	0	2	0	1	0	15	0
Bolangir	FW	OFC	HOF	Cultivation techniques of minor for crops	1	1	10	0	5	0	2	0	8	0
Bolangir	RYH	ONC	HOO	Marigold cultivation	1	1	1	0	4	0	1	0	9	0
Bolangir	EXP	ONC	WOE	Value addition in fruits	1	1	0	4	0	2	0	1	0	3
Bolangir	FW	OFC	WOE	Design & development of low cost diet for farm family	1	1	0	0	0	8	0	3	0	14

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Bolangir	FW	OFC	WOE	Preparation of value added products in mango	1	1	0	6	0	8	0	0	0	14
Bolangir	FW	OFC	WOE	Development of high nutrient efficient diet	1	1	0	0	0	3	0	1	0	21
Bolangir	FW	ONC	WOE	Cultivation practices for paddy straw mushroom	1	1	0	0	0	4	0	2	0	19
Bolangir	FW	OFC	WOE	Different source of income generating activities for farm women	1	1	0	0	0	1	0	0	0	24
Bolangir	FW	OFC	WOE	Minimization of nutrient loss in processing	1	1	0	2	0	4	0	2	0	17
Bolangir	RYH	ONC	WOE	Drudgery reduction user friendly implements in agriculture	1	2	0	0	0	5	0	3	0	7
Bolangir	FW	ONC	WOE	Preparation of value added products from tomato	1	1	0	0	0	4	0	5	0	16
Bolangir	RYH	OFC	WOE	Paddy straw mushroom cultivation in poly house	1	2	0	0	0	0	0	0	0	15
Bolangir	FW	OFC	WOE	Dhingri mushroom cultivation	1	1	0	0	0	1	0	2	0	22
Bolangir	EXP	ONC	WOE	Household food security	1	1	0	0	0	2	0	0	0	8
Bolangir	FW	OFC	WOE	Nutritional garden for nutritional security	1	1	0	5	0	8	0	1	0	11
Bolangir	FW	OFC	WOE	Sun drying technique of oyster mushroom	1	1	0	0	0	7	0	6	0	12
Bolangir	FW	OFC	LPM	Poultry rearing technique in backyard	1	1	0	0	0	0	0	7	0	18
Bolangir	FW	OFC	LPM	Management of poultry diseases	1	1	0	0	0	6	0	5	0	14
Bolangir	EXP	ONC	CBD	SWOT Analysis in ornamental horticulture	1	1	4	0	2	0	0	0	4	0
Bolangir	FW	OFC	CBD	Formation & management of commodity groups/farmers group	1	1	5	0	3	0	2	0	15	0
Bolangir	RYH	OFC	CBD	Organization & meet of farmers club	1	2	3	0	4	0	2	0	6	0
Bolangir	EXP	OFC	CBD	Analytical tools used in PRA	1	1	3	0	3	0	0	0	4	0
Bolangir	FW	ONC	CBD	Alternate livelihood option	1	1	10	0	13	0	2	0	0	0

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
				for resource poor farmer										
Bolangir	FW	ONC	CBD	Use of ITK in agriculture for SHGs	1	1	3	0	4	0	5	0	13	0
Bolangir	FW	OFC	CBD	Agri0entrepreneurship development	1	1	1	0	2	0	6	0	16	0
Bolangir	RYH	ONC	CBD	Marketing strategy for agricultural products	1	1	0	0	0	0	0	0	15	0
Bolangir	FW	OFC	PLP	Defoliator pest management in cabbage/cauliflower	1	1	0	0	22	0	1	0	2	0
Bolangir	FW	OFC	PLP	Cultural management of insect pests in Field crops	1	1	3	0	12	0	4	0	6	0
Bolangir	RYH	ONC	PLP	Judicious use of latest Plant Protection chemical	1	2	2	0	8	0	1	0	4	0
Bolangir	EXP	ONC	PLP	IPM in Mango & Banana	1	1	2	0	4	0	2	0	2	0
Bolangir	FW	OFC	PLP	Management of fungal diseases in banana	1	1	4	3	8	4	2	2	0	2
Bolangir	FW	OFC	PLP	Management of Maize stem borer	1	1	2	0	16	0	3	0	4	0
Bolangir	FW	OFC	PLP	Pest management in paddy nursery	1	1	3	0	14	0	3	0	5	0
Bolangir	FW	ONC	PLP	IPM in paddy main field	1	1	0	0	2	0	3	0	20	0
Bolangir	FW	OFC	PLP	Management of sucking pests in cotton	1	1	3	0	4	0	5	0	13	0
Bolangir	FW	OFC	PLP	Management of insect pest in cucurbit vegetables through natural enemy	1	1	0	0	4	0	0	0	21	0
Bolangir	FW	OFC	PLP	Management of borer complex wrt pod fly in Pigeon pea	1	1	0	0	7	0	0	0	18	0
Bolangir	RYH	ONC	PLP	AESA & ecological engineering in paddy	1	1	0	0	2	0	0	0	13	0
Bolangir	FW	OFC	PLP	Management of insect pest in solanaceous vegetables wrt brinjal	1	1	0	0	14	3	1	0	5	2
Bolangir	FW	OFC	PLP	Stored grain insect pest management	1	1	0	0	8	0	4	0	13	0
Bolangir	FW	OFC	PLP	Diseases management in	1	1	0	0	19	0	3	0	3	0

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
				mango during flowering										
Bolangir	EXP	OFC	PLP	Rodent pest management in field crops	1	1	1	1	2	0	4	0	1	1
Bolangir	FW	OFC	FIS	Development/design of small farm pond	1	1	3	0	8	0	6	0	8	0
Bolangir	FW	OFC	FIS	Plankton production technique in Fish nursery	1	1	2	0	4	0	2	0	12	5
Bolangir	RYH	OFC	FIS	Fish seed production & nursery management	1	3	0	0	4	0	3	0	18	0
Bolangir	FW	OFC	FIS	Probiotics application in aquaculture pond	1	1	0	0	0	0	0	0	25	0
Bolangir	FW	OFC	FIS	Supplementary feeding in composite carp culture										
Bolangir	FW	OFC	FIS	Water quality management of fish pond during winter	1	1	20	5	0	0	0	0	0	0
Bolangir	FW	OFC	FIS	Zeolite application procedure in fish pond	1	14	11	0	0	0	0	0	0	0
Bolangir	EXP	ONC	FIS	Species diversification in aquaculture	1	1	3	0	3	1	0	0	3	0

Table 5.2. Details of Vocational training programmes for Rural Youth conducted by the KVKs

Name of KVK	Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)	Number of Beneficiaries							
					Gen		SC		ST		Others	
					M	F	M	F	M	F	M	F
Bolangir	Oyster mushroom spawn production technique	Enterprise	Income generating activities for Farm women	6	0	0	0	2	0	1	0	7
Bolangir	Methods of seedling raising in poly house	Crop	Cultivation in protected condition	7	10	0	0	0	0	0	0	0

Table 5.3. Details of training programme conducted for livelihood security in rural areas by the KVKs

Name of KVK	Training title	Self employed after training			Number of persons employed else where
		Type of units	Number of units	Number of persons employed	
Bolangir	Poultry rearing technique	Single	5	5	8
Bolangir	Fish seed production & nursery management	Single	2	10	4
Bolangir	Paddy straw mushroom cultivation in poly house	Group	6	18	11
Bolangir	Drudgery reduction user friendly implements in agriculture	Group	3	8	8
Bolangir	Marigold cultivation	Group	10	10	12
Bolangir	Seed production technology in paddy	Single	5	21	23

Table 5.4. Sponsored Training Programmes : No Sponsored Training Programmes conducted

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/ RY/ IS)	Dura-tion (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
							Gen		Others		SC		ST			
							M	F	M	F	M	F	M	F		
Bolangir																
Bolangir																

Table 5.5 Training Programmes for Panchayatiraj Institutions Office-bearers & members : Not conducted

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/ RY/ IS)	Dura-tion (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
							Gen		Others		SC		ST			
							M	F	M	F	M	F	M	F		
Bolangir																
Bolangir																

Table 5.6 Evaluation/Follow up & Impact of the training programmes conducted by the KVK (all types of trainings)

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Bolangir	Weed management in paddy	25	2	5	32	36	12000	14000	8 4, 200; 150, 12, 17
Bolangir	Production technology in SRI	25	4	8	32	48	12000	20000	60, 160 ; 200, 50, 66
Bolangir	Seed production technology in paddy	25	4	8	34	40	13000	22000	20, 36; 200, 18, 70
Bolangir	Management practices of Blackgram	25	3	7	4	6	15000	20000	20, 55; 133, 50, 33
Bolangir	Fertilizer management in crop Pigeon pea	25	1	5	5	7	20000	27000	15, 50 ; 400, 40, 35
Bolangir	Management practices of sunflower	25	1	5	6	10	25000	35000	15, 40 ; 400, 66, 40
Bolangir	Management of practices of groundnut	25	3	7	10	16	30000	40000	20, 55; 133, 60, 33
Bolangir	Use of mulching in horticulture crops	25	2	6	250	323	250000	323000	20,35; 200,29,29
Bolangir	Techniques of off –season cultivation of onion	25	1	5	291	346	174600	207600	10,20; 400,19,19
Bolangir	Herbicide application in onion	25	1	3	300	323	180000	193800	5,7; 300,7,7
Bolangir	Fertilizer management is pointed gourd	25	5	8	257	336	385500	504000	100,250; 66 ,30,30
Bolangir	Offseason cultivation of okra	25	3	6	215	181	215000	362000	20,53; 100,16,68

Bolangir	Protray seedling raising in cruciferous vegetable	25	2	4	287	318	172200	190800	16,50;100,108,108
Bolangir	Production of low volume & high value crops	15	2	4	110	159	220000	318000	10,25;400,44,44
Bolangir	Cultivation technique of hybrid capsicum	25	2	7	201	253	201000	253000	20,39;250,26,26
Bolangir	Role of plant growth regulators in cauliflower	25	3	5	231	309	231000	309000	15,35;66,33,34
Bolangir	Importance of micronutrients in cruciferous vegetable	25	2	8	252	332	252000	332000	17,52;300 ,32,32
Bolangir	Seed extraction technique in tomato	25	1	5	281	350	168600	210000	15,35;500,24,24
Bolangir	Forcing watermelon ,out of season	25	2	5	301	320	331100	352000	12,30;150,6,6
Bolangir	Marigold cultivation	25	3	9	15	45	9000	18000	5, 40 ; 200, 200, 100
Bolangir	Cultivation practices for paddy straw mushroom	25	4	9	0.5kg/bed	1.5kg/bed	50/bed	225/bed	28 ,21 ; 100 ,200 , 350
Bolangir	Preparation of value added products from tomato	25	3	8	-	-	500	2500	15 ,20 ; 133 , - ,400
Bolangir	Paddy straw mushroom cultivation in poly house	15	4	8	1kg/bed	1.8kg/bed	80/bed	150/bed	100 beds, 10 ; 100, 80, 87
Bolangir	Dhingri mushroom cultivation	25	4	8	1kg/bed	2kg/bed	80/bed	160/bed	10000 bags, 120 ; 100, 100, 100
Bolangir	Household food security	25	3	9	-	-	11000	16000	- ,40 ; 200 , - ,45

Bolangir	Nutritional garden for nutritional security	25	4	8	142q/ha	172q/ha	17390	39500	10 20 ; 100 ,21 ,127
Bolangir	Poultry rearing technique in backyard	25	5	8	1kg/bird	3.5kg/bird	180/bird	420/bird	15 ,20 ; 60 ,250 ,133
Bolangir	Management of poultry diseases	25	3	5	-	-	-	-	-, 30 ; 66, - , -
Bolangir	Formation & management of commodity groups/farmers group	25	2	6	-	-	-	-	- ,12 ; 150 ,- , -
Bolangir	Organization & meet of farmers club	15	2	6	-	-	-	-	-, 15; 200, - , -
Bolangir	Analytical tools used in PRA	10	5	8	-	-	-	-	- , - ; 60 , - , -
Bolangir	Alternate livelihood option for resource poor farmer	25	2	6	-	-	-	10000	-, 18; 200,- , -
Bolangir	Use of ITK in agriculture for SHGs	25	3	5	-	-	-	-	5, 25 ; 66, - , -
Bolangir	Marketing strategy for agricultural products	15	3	6	-	-	-	-	- , 9 ; 100, - , -
Bolangir	Defoliator pest management in cabbage/cauliflower	25	2	6	290	330	50000	70000	40, 74 ; 300, 14, 40
Bolangir	Cultural management of insect pests in Field crops	25	2	5	32	36	12000	14000	8 4, 200; 150, 12, 17
Bolangir	Judicious one of latest PP chemical	25	3	8	240	285	120000	160000	10, 50 ;166, 19, 33
Bolangir	IPM in mango & Banana	25	2	7	450	560	150000	180000	30, 40 ; 250,25, 20
Bolangir	Management of fungal diseases in banana	25	4	8	460	490	60000	85000	24, 60 ; 200,7, 42

Bolangir	Management of Maize stem borer	25	5	8	30	40	14000	19000	40, 112, ; 60, 33, 35
Bolangir	Pest management in paddy nursery	25	4	6	32	42	11000	15000	32, 25; 50, 31,36
Bolangir	IPM in paddy main filed	25	2	7	32	40	13000	18000	20, 60 ; 250, 25, 38
Bolangir	Management of sucking pests in cotton	25	5	9	13	19	22,000	29,000	18, 45; 80, 46, 32
Bolangir	Management of insect pest in cucurbit vegetables through natural enemy	25	2	6	300	340	50000	70000	40, 74 ; 300, 14, 40
Bolangir	Management of borer complex wrt pod fly in Pigeon pea	25	1	5	5	7	20000	27000	15, 50 ; 400, 40, 35
Bolangir	Management of insect pest in solanaceous vegetables wrt brinjal	25	4	8	280	340	55000	80000	20, 75 ; 100, 22, 45
Bolangir	Stored grain insect pest management	25	2	8	-	-	-	-	20, 75 ; 300, -, -
Bolangir	Design and layout of the aquaculture pond	25	3.5	7	15	21	150000	210000	50, 20; 100, 40, 40
Bolangir	Plankton production technique in fish nursery	25	5	8.5	12	17	120000	170000	150, 63; 70, 41, 42
Bolangir	Fish seed production & nursery management	15	3	5.5	15	20	150000	200000	5, 7;50, 33, 33
Bolangir	Probiotics application in aquaculture pond	25	3	6	21	24	210000	240000	20, 12; 100, 14, 15

Bolangir	Supplementary feeding in composite crop culture	25	4.5	8.5	17	22.5	170000	225000	90, 75; 88, 32, 32.5
Bolangir	Water quality management of fish pond during winter	25	4	7.5	23	27	230000	270000	35, 22; 87, 17, 17.5
Bolangir	Zeolite application procedure in fish pond	25	4.5	8.2	24	27	240000	270000	45, 34; 82, 12.5, 12.5

6. EXTENSION ACTIVITIES

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
Bolangir	Field Day	15	14	334	89	126	71	17	5	To aware the farmers regarding result of the demonstration contributing to yield maximisation	Leaf folder Paddy, Maize stem borer, Sucking pest in Cotton, Paddy straw Mushroom, Biofertilizer in Brinjal, Package demonstration of Blackgram & Pigeon pea, Pendimethalin in Onion, Backyard poultry, Dhingri mushroom, Maize sheller, Pelleted fish feed, Stunted yearling, Anthrcnose in Mango	Vegetative stage, Harvesting stage, Interculture stage,Fish netting stage, Marketing stage
Bolangir	Kisan Mela	2	2	47	18	60	13	3	1	Awareness about technological products and activities of mandatory work of KVK	Results of on farm trials and yield from recommended practice	-
Bolangir	Kisan Ghosthi	2	-	-	-	-	-	-	-	-	-	-

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
Bolangir	Exhibition	2	2	195	40	360	190	14	8	Awareness about technological products	Farmers fair of KVK and other ring partners	-
Bolangir	Film Show	-	10	160	37	110	48	5	2	Awareness regarding technological package	Horticultural crops in protected condition, SRI, pesticide poisoning, cotton cultivation, drip irrigation, water harvesting	Growth stage of different crops
Bolangir	Method Demonstrations	10	15	11	2	16	8	2	-	To show the method of using technological package	Neem oil emulsion preparation, Release tricho-card, Seed dressing with Biofertilizer, placement of seed at right depth, line sowing, Erection of yellow trap, Stem application of pesticide, Soil sampling	Sowing of seed, Vegetative stage, Pre-land preparation
Bolangir	Farmers Seminar	4	3	119	24	12	-	8	-	To incorporate ideas and knowledge of farmers in KVK activity	Species diversification in aquaculture,Water management, status of aquaculture in the district	-
Bolangir	Workshop	3	-	-	-	-	-	-	-			
Bolangir	Group meetings	10	12	19	1	31	7	-	-	To sensitize the farmers regarding effective implementation of the FLD , OFT and other critical activities	Before executing FLD and OFT programmes	Before onset of cropping season
Bolangir	Lectures delivered as resource persons	-	22	289	11	355	45	25	4	Capacity building	Agril topics	-
Bolangir	Newspaper coverage	-	8	-	-	-	-	-	-	Information on	Farmers fair, ATMA	After the

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
										KVK activities for Mass	work monitoring ,field day, Akhi trutiya, SAC meeting	organization of the event as mentioned
Bolangir	Radio talks	-	12	Mass						Technological message for practising farmers	Integrated pest management, Mushroom cultivation,polycultur e tech. in prawn, integrated fish farming,cultivation of colour capsicum,Blackgram cultivation,medicinal value of mushroom,Kharif cropping,Judicious use of pesticides	-
Bolangir	TV talks	-	-	-	-	-	-	-	-	-	-	-
Bolangir	Popular articles	4	2	Mass	-	-	-	-	-	-	Weed management, pest management	-
Bolangir	Extension Literature	10	7	Mass	-	-	-	-	-	-	Information on Agril. Programme, Year Planner, Poultry Farming, Vermiculture, Fish cum Duckery, Pest management in Brinjal, Onion Cultivation	-
Bolangir	Farm advisory Services	-	12	30	-	45	15	5	2	Knowledge and skill development of farmers	Crop technologies	-
Bolangir	Scientific visit to farmers field	50	88	150	21	187	32	7	-	Knowledge and skill development of farmers	Crop technologies	From sowing to harvesting at different stages
Bolangir	Farmers visit to KVK	800	1200	330	22	788	60	-	-	To get knowledge and skill	Crop technologies	From sowing to harvesting at different stages

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
Bolangir	Diagnostic visits	30	42	77	10	185	23	21	9	To solve farmers field problem	Plant protection, Mushroom, Fruit and vegetable cultivation,Pisciculture, Crop husbandry	From sowing to harvesting at different stages
Bolangir	Exposure visits	-	3	10	5	2	1	2	-	To see succees points in other farmers field	Plant protection, Mushroom, Fruit and vegetable cultivation	At full bloom and harvest stage
Bolangir	Ex-trainees Sammelan	4	3	60	20	20	20	-	-	Farmers feed back on all the conducted trainings	Major trainings on plant protection, Pisciculture, Horticulture and Home Science discipline	-
Bolangir	Soil health Camp	2	1	53	2	41	4	6	2	Awareness on soil testing and integrate nutrient management	Soil test based nutrient management	-
Bolangir	Animal Health Camp	2	1	-	-	-	-	-	-	Vaccination programme for 100 livestock	Vaccination against livestock diseases	Juvenile stage of livestock
Bolangir	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
Bolangir	Soil test campaigns	2	-	-	-	-	-	-	-	-	-	-
Bolangir	Farm Science Club conveners meet	-	1	49	-	6	-	1	-	To invigorate the activity of farmers club	Empowerment of Farm science Club	-
Bolangir	Self Help Group conveners meetings	-	1	-	24	-	26	-	-	Awareness on non-land based income generating activities	Income generating activities to be taken for Women SHGs	
Bolangir	Mahila Mandals conveners meetings	-	-	-	-	-	-	-	-	-	-	-
Bolangir	Celebration of important days	2	2	70	22	135	23	12	4	Celebration to begin cropping season, empowerment of women in agriculture	Farmers day, Women in agriculture day	Pre-land preparation stage, Rabi crop season

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

7.1 KVK Newsletters

KVK Name	Date of start	Periodicity	Number of copies printed	Number of copies distributed
Bolangir	25.06.2013	Quarterly	1500	1450

7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Bolangir	Pocket Booklet	Information on Agriculture Programme of district	Dr. S K Patra, A K Das, S. Purohit	500
Bolangir	Folder	Year Planner 2013-14	Dr. S K Patra, K. Behera	100
Bolangir	Folder	Poultry Farming " Banaraja"	S. Purohit	500
Bolangir	Folder	Vermiculture and Vermiwash	K. Behera, A K Das	500
Bolangir	Folder	Fish cum Duckery Farming	Dr. S K Patra	500
Bolangir	Booklet	Integrated pest management in Brinjal	A K Das, K . Behera	500
Bolangir	Folder	Onion Cultivation	Dr. S K Patra, S. Srichadan	500

7.3 Details of Electronic Media Produced : NOT PRODUCED

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number

8. Production and supply of Technological products

8.1 SEED production

KVK Name	Major group/class	Crop	Variety	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Bolangir	Seed(Foundation)	Paddy	Pooja	133	1,66,000	To be sold to OSSC, Bhubaneswar	198
Bolangir	Seed(Foundation)	Paddy	Lalat	174	2,18,000	To be sold to OSSC, Bhubaneswar	260

8.2 Planting Material production

KVK Name	Major group/class	Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Bolangir	Seedling	Brinjal	Utkal Keshari	500	500	05	0.01
Bolangir	Seedling	Papaya	Red Lady, Sinta F-1, CO-5	1500	15,000	05	0.4
Bolangir	Seedling	Onion	Agri Found Dark Red, Bhima Super, Agri Found Light Red	1,25,000	25,000	20	0.2
Bolangir	Seedling	Tomato	Utkal Raja,Utkal Deepti, Utkal Pragyan, Utkal Kumari	12,000	12,000	05	0.4
Bolangir	Seedling	Broccoli	PUSA KTS-1	11,000	22,000	20	0.3
Bolangir	Seedling	Colour Capsicum	Arya, Nikita	2,700	10,800	05	0.08
Bolangir	Seedling	Green capsicum	Ujjwal	4,650	9,300	13	0.2

8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.) * Name of product should follow same pattern and spelled correct

KVK Name	Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (In Kg)	Qty (In No)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Bolangir	Bio Agents	Vermiculture	31.4	-	500/kg	25	25 Units
Bolangir	Bio Agents	Vermicompost	1005	-	1000/qtl	20	2
Bolangir	Bio Fertilizer	-					
Bolangir	Bio Fertilizer	-					

8.4 Livestock and fisheries production: NIL

KVK Name	Name of the animal / bird / aquatics	Breed	Type of Produce	Qty. (kg/qt./litre)	Value (Rs.)	No. of Beneficiaries

9. Activities of Soil and Water Testing Laboratory

9.1 Details of soil samples analyzed so far: No Soil & Water testing Laboratory available at KVK, Bolangir. 100 samples tested outside KVK.

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Soil report distributed to the farmers (Nos)
Bolangir	Not available	`-	-	100	92	7	0	92

9.2 Details of water samples analyzed so far : NIL

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Water report distributed to the farmers (Nos)
		`						

10. Rainwater Harvesting : NOT AVAILABLE

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Name of KVK	Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/STParticipants		
					Male	Female	Total	Male	Female	Total

11. Utilization of Farmers Hostel facilities : NOT AVAILABLE

Accommodation available (No. of beds) :

KVK Name	Months	Year	Title of the training course	Duration of training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)

12. Utilization of Staff Quarters facilities : NOT AVAILABLE

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
	-	-	-	-	-

13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Bolangir	**26.07.13**	**30**	Trial on micronutrient management in cotton should be conducted on the basis of micronutrient status through soil testing
Bolangir			Training programme on fish feed formulation, feed management and ornamental fish culture may be organized under vocational training.
Bolangir			Demonstration on Molybdenum in cauliflower may be continued for one more season to arrive at conclusion.

Bolangir			Assessment of Diamond Back moth management in cauliflower through trap crop like sowing Mustard/Toria as border crop may be designed
Bolangir			Performance of zero tillage may be assessed in sowing pulses under paddy fallow system
Bolangir			Training on protected cultivation may be conducted for the skill competency of the field level extension functionaries
Bolangir			Performance of onion cultivation through organic inputs may be assessed in farmer's field
Bolangir			Suitable Integrated farming system may be screened through FLD
Bolangir			Performance of vermicompost application in tomato may be assessed.
Bolangir			Training on deworming and chick brooding may be carried out for the farmers
Bolangir			Nodal Officer, SHG may be invited as invitee for the SAC meeting
Bolangir			Performance of marigold cultivation round the year from a particular field may be conducted to popularize flower cultivation

14. **Status of Kisan Mobile Advisory (KVK-KMA)**

KVK Name	**No. of messages sent**	**No. of beneficiary**		**Sponsoring agency (NIC, Farmers Portal, etc.)**	**Major recommendations**
		Farmers	**Ext. Pers.**		
Bolangir	144	1000	50	Pacific Technology, Nagpur and Farmers Portal	Integrated disease & pest management in major crops, , Mushroom cultivation, Production technology on Cereals, Pulses, Oilseeds; Nutrient management in Vegetables and Fruits, Weed management, Weather forecasting based activity, Management of livestock and Poultry, Market information on Prices

15. Status of Convergence with various agricultural schemes (Central & State sponsored)

KVK Name	**Name of scheme**	**Name of Agency (Central/state)**	**Funds received (Rs.)**	**Activities organized**	**Operational Area**	**Remarks**
Bolangir	**RKVY**	**Central**	**225000**	**Development of Irrigation system**	**KVK Instructional farm**	**Under construction at KVK**
Bolangir	**ATMA**	**Central**	**25000**	**Farmer-Scientist interaction**	**Practising Farmers of adopted villages**	**On topic prospects of Aquaculture in the district**

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Bolangir	31149194881	99278	468026	468026 as on 31.03.14

17. Awards & Recognitions : No award for KVK, Bolangir

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received

18. Details of KVK Agro-technological Park . Not established in the KVK

KVK, Bolangir is functioning in a dilapidated building , instructional farm has no boundary and subject to frequent trespass by man and animal thereby restricting development of technological park.

a) Have you prepared layout plan, where sent?

S .No.	Name of KVK	Technology park proposal developed(yes/no)	If yes, where sent ? (ZPD/DES/any other, pl. sp.)

b) Details about Technology Park : Not established

Name of KVK	Name of Component of Park	Detail Information (If established)
	Crop Cafeteria	
	Technology Desk	
	Visitors Gallery	
	Technology Exhibition	
	Technology Gate-Valve	

c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria

19. Farm Innovators- list of 10 Farm Innovators from the District

Sr. No.	Name of KVK	Name of Farm Innovator	Name of the Innovation	Address of the farmer with Mobile No.
1	Bolangir	Prasanta Satapathy	Growing of colour Capsicum	Village:Hardatal, Bolangir- 9437124256
2	Bolangir	Satrughna Meher	Mango grafting	Village:Kutumunda, Patnagarh- 9437240808

3	Bolangir	Nehru Agrawal	Onion storage structure	Village:Kursud, Bongamunda- 9938432708
4	Bolangir	Sayed Abdul Siraj	Mustard intercropping with cauliflower	Village:Tamiyan, Patnagarh- 9658888586
5	Bolangir	Saraswati Bariha	Paddy straw mushroom cultivation by using compost material	Village:Badhanbadi, Patnagarh- 8018258634
6	Bolangir	Hemakanti Meher	Production of dehydrated mushroom	Village:Kaudia, Patnagarh- 8018035133
7	Bolangir	Narahari Rout	Relay cropping of cucurbits in single trellis system	Village:Larkipali, Bolangir- 9938552194
8	Bolangir	Gopinath Meher	Broccoli cultivation	Village:Bhatpali, Patnagarh- 9937932779
9	Bolangir	Hazaru Jamadar	Cotton and Pigeon pea , Cotton and groundnut intercropping	Village:Garjan, Bolangir- 91783977121
10	Bolangir	Sapan Patra	Fish seed production	Village:Barpadar, Patnagarh

20. KVK interaction with progressive farmers

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers to participated
Bolangir	26.07.13	15
Bolangir	27.12.13	20

21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Bolangir	05	06	10	65

Intensive- OFTS, FLDS etc
Extensive- Literatures, Publications, Awareness programmes etc.

22. Technology Demonstration under Tribal Sub Plan on Pulses/ Programme on Harnessing Pulses/ Quality Protein Maize, if applicable. **Not applicable**

Sr. No.	Name of crop under Technology demonstration	Area under the programme	No. of Extension Activities	Remarks / Lessons learnt

23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1.	KVK, Sonepur	Knowledge, Manpower	Development of para-extension workers
2.	KVK, Kalahandi	Knowledge, Manpower	Qualitative development of literature and methodology on effective capacity building of Rural Youth

24. **Important visitors to KVK**

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Bolangir	Dr. R.K.Raj	26.07.13	-	OUAT, Bhubaneswar	-	To chair the SAC meeting of KVK
Bolangir	Dr.(Mrs) Madhumita Das	26.07.13	Directorate of Water Research, formerly WTCER (ICAR) Bhubaneswar	-	-	To participate in the SAC meeting of KVK as ICAR representative
Bolangir	D. Prasantha Reddy	26.07.13	-	-	District Magistrate	To participate in the SAC meeting of KVK as Chief Guest
Bolangir	Dr. L.K. Babu	01.02.14	-	OUAT, Bhubaneswar	-	To participate in the Farmers fair of KVK as Chief Guest
Bolangir	Dr. S. Mohapatra	01.02.14	-	OUAT, Bhubaneswar	-	To participate in the Farmers fair of KVK as esteemed guest

25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Kvkbolangirzpdvii.org	April-2011	16	270

26. E-CONNECTIVITY : Not available

Name of KVK	Number and Date of Lecture delivered from KVK Hub				No of lectors organized by KVK	Brief achievements	Remarks

27. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks
1	Bolangir	No RTI application received	-	-

28. Status of Citizen Charter

Sr. No.	Name of KVK	Query received(Nos)	Query Disposed(Nos)	Remarks
1	Bolangir	21	21	No queries received in written format , however 21 cases wrt crop activities have been disposed

29. Attended HRD Programmes organized by ZPD : NIL

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Bolangir	Dr. S.K.Patra	Programme Coordinator	1	ATMA- KVK Convergence workshop
Bolangir				
	Total		1	-

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
Bolangir	1	1

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Bolangir	Dr. S.K.Patra	Programme Coordinator	2	Orientation programme
Bolangir	K. K. Behera	SMS(Ag. Extension)	2	Orientation Programmes
Bolangir	A. K. Das	SMS(Plant Protection)	5	Orientation Programmes/ On IPM & Plant Nutrition
Bolangir	S. Srichandan	SMS(Horticulture)	2	On Ag. Engg., Poultry/Duckery
Bolangir	S. Purohit	SMS(Home Science)	2	Orientation Programmes

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
Bolangir	5	13

31. Attended HRD Programmes by KVK Staff (Refresher course, Short course, Training programme etc.)

Name of KVK	Name of Staff	Post held	Programmes attended (Nos)	Remarks
Bolangir	K. K. Behera	SMS(Ag. Extension)	2	On Paddy Production technology & workshop on Success story

Name of KVK	Total Number of staff Attended HRD Programmes organized by ZPD (nos)	Total Number of Programmes attended (Nos)
Bolangir	1	1

32. Agri alert report (Epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)

No such cases observed

Name of KVK	Alert observed	Particulars	Reported to organization
Bolangir			

33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Bolangir	Seed treatment Campaign	1	50	Seed treatment of Pulse seeds
Bolangir	SHG meet cum Exhibition	1	50	Strengthening of activity of women self help groups
Bolangir	Animal Health Camp	1	100 cows	Vaccination of livestock
Bolangir	Awareness camp	1	50	Behavioural manipulation of insect in insect pest management
Bolangir	Farmers-Scientists interaction	1	50	Judicious use of herbicides in Agriculture
Bolangir	Seminar	1	50	Fish species diversification in the district

34. INTERVENTIONS ON DROUGHT MITIGATION : *Drought condition did not prevail due to normal monsoon*

Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries

Major area coverage under alternate crops/varieties

Mane of KVK	Crops	Area (ha)	Number of beneficiaries

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No.of participants

Animal health camps organized

Name of KVK	Number of camps	No.of animals	No.of farmers

Seed distribution in drought hit states

Name of KVK	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers

Seedlings and Saplings distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
Seedlings				

Bio-control Agents

Name of KVK	Bio-control Agents	Quantity (q)	Coverage of Area (ha)	No. of farmers

(e) Bio-Fertilizer

Name of KVK	Bio-Fertilizer	Quantity (kg)	Coverage of Area (ha)	No. of farmers

(f) Verms Produced

Name of KVK	Verms Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers

(g) Large scale adoption of resource conservation technologies

Name of KVK	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers

(h) Awareness campaign

Name of KVK	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers

35. Proposal of NICRA :

NOT COVERED UNDER NICRA

1. **Technologies to be Demonstrated**

Name of Technology	Name of Crop	Area (ha.)	Yield	% change in Yield	No. of farmers benefitted

2**. Proposed Extension Activities in NICRA Village**

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total

3. **Proposed Training Activities in NICRA Village**

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total

4**. Proposed Activities for Fodder Bank**

Established (Years)	Capacity	Current Status

5. **Proposed Activities for Seed Bank**

Established (Years)	Capacity	Current Status

6. **Public Representative/District Administration Visited in NICRA Village**

Name of Representative/Officer	Designation	Date of Visit

7. Feedback of Farmers for future improvement, if any.

Provision of training hall and hostel for effective capacity building.
Provision of standard lunch at Rs 40/- per day per farmer is too meager for the purpose, which may be increased.
Vocational training on Vaccination of poultry birds may be included
Increased productivity of fish ponds with seasonal water (water does not hold for 12 months) through scientific management .
Dehydration technique for mushroom should be taught to farmers at KVK campus.
More no. of field visits for mitigating field and non-land based agrarian problems.

36. Proposed works under NAIP (in NAIP monitoring format)

Not covered under NAIP Project.

37. Case study / Success Story to be developed – Two best only in the following format

SUCCESS STORY – 1

Name of the KVK : Bolangir

TITLE : Vegetable based Integrated farming System

Introduction : Narahari Rout was a young farmer with land holding size of 3 hectare under rainfed condition and having a Dug Well. He was following Cropping Pattern like Paddy/Pigeon pea in kharif season and Green gram with combination of vegetables in Rabi season. His investment was Rs. 1,02,000/- per annum with net profit of Rs. 98,800/- per annum.

KVK intervention : By intervention of KVK , the following practices / technology was achieved :
Conversion to vegetable based farming system,
Drip irrigation in 2Ha. and Cucurbits in trellis system
Seed treatment with (Carboxin + Thiram @ 2.5gm/Kg of seed)
Foliar application of Nitrobenzen 2ml/lit. at 4 leaf stage
Trap crop for pest management
Herbicide (Pendimethalin) @2lit/ha.

Output : Yield of Cucurbits in Kharif season 325 qtl. and in Rabi season 270 qtl.
Yield of Crucifer vegetables was 270 qtl/ annum

Outcome :

Season	Area	Cost of cultivation (Rs.)	Gross Income (Rs.)	Profit (Rs.)
Kharif	3 Ha.	1,64,000	2,94,750	1,30,750
Rabi	2.4 Ha.	1,15,000	2,85,100	1,70,100
Total	5.4 Ha. (Net)	2,79,000	5,79,850	3,00,850

Impact :

Adoption of model by 25 farmers (2.5 ha each)
Blocks : Patnagarh, Loisingha, Balangir
Av. Net profit /ha./yr.-Rs. 98,000/-

SUCCESS STORY – 2

Name of the KVK : Bolangir

TITLE : Crop diversification from Paddy to Sugacane

Introduction : Aditya Sahu of Kermeli village was a young farmer with land holding size of 2.5 hectare under rainfed condition and having a pond. He was following Cropping Pattern like Paddy/Pigeon pea/Black gram in kharif season and Green gram /Sunflower in Rabi season. His investment was Rs. 60,500/- per annum with net profit of Rs 77, 260 /- per annum.

KVK intervention : By intervention of KVK , the following practices / technology was achieved :

Diversification to Sugarcane (Var. CO-83R23, Nayana, CO-86V96)
Drip irrigation
Sett treatment (100L. water + 150g. carbendazim + 200 ml. chloropyriphos + 1kg. Urea) for 15 min.
5kg. Azospirillum with 500kg. FYM at 30 & 60 DAT
Basal does (100kg P & 30kg K), at 45 DAT (20kg phorate 10G./ha. & 125kg N), at 90 DAT (62 .5kg & 30 kg K, at DAT (62.5kg N)
Release of *T. chilonis* @ 1,20,000 per ha., 6 times at 10 DAI

Output : Net yield of high yielding Sugarcane was 216 tonnes from two hectares

Area	Yield(t)	Cost of cultivation (Rs)	Gross Income (Rs)	Profit(Rs)
2ha.	216	1,50,000	4,53,600	3,03,600

Outcome :

Felicitated by KVK/Bijayananda Sugar Mill & Agril. Deptt.
Converted two rooms of kacha roof to concrete roof
Rewarded with gold chain (15g) by sugar mill
Purchased two pairs of power weeder

Impact :

Acreage of Sugarcane increased from 2000 ha. in 2009-10 to 2800 ha in 2012-13
Blocks : Saintala, Deogaon, Agalpur
Creation of 500 mandays per ha. Per yr.

Sr. no.	Name of KVK	No. of success stories	No. of case studies
1.	Bolangir	10	5

38. Well labeled Photographs for each activity of the KVK (Soft copies as well as hard copy- specially for all OFT along with the problem) –

Title of OFT	Problem	Related photograph
Assessment of Bunch feeding in Banana	Low yield of Banana due to insufficient nutrient uptake through root system	
Assessment of Poly-mulching in Tomato	Low yield of Tomato due to severe weed infestation in upland irrigated condition	
Assessment of Integrated pest management against sucking pests in Cotton	Low yield of cotton due to severe infestation of sucking insect pests	
Assessment of chemical pesticide management against pod fly in Pigeon pea	Low yield of Pigeon pea due to moderate to severe infestation of pod fly	

Refinement of assessment of Integrated pest management strategy against Diamond back moth in Cauliflower	Low yield of Cauliflower due to moderate infestation of Diamond back moth in Cauliflower and difficulty in sowing mustard as trap crop with Cauliflower in 2:25 ratio	
Assessment of insecticide Buprefezin against management of Brown plant hopper in Paddy	Low yield of Paddy due to moderate to severe infestation of Brown plant hopper in Paddy	
Assessment of performance of Onion variety Agrifound Light Red	Low yield from local variety of onion due to small bulb size	
Assessment of Potassium Metabisulphite in keeping quality of Lemon squash	Low income from bumper harvest of Lemon leading to low sale price	

Assessment of performance of N-benzene in watermelon productivity	Low yield from watermelon due to inadequate nutrient uptake leading to small fruit size	
Assessment of Keeping quality of Oyster mushroom by dehydration	Low income of farm women due to distress sale of Oyster mushroom	

Programme Cordinator
KVK, Bolangir(ODISHA)