

ANNUAL REPORT - 2010-11

(APRIL : 2010 - MARCH : 2011)



**KRISHI VIGYAN KENDRA
BOLANGIR**



R.E. FARM, LARKIPALLI, BOLANGIR-767002

Orissa University of Agriculture & Technology

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REPORTING PERIOD – April 2010 to March, 2011

Summary of achievements during the reporting period

KVK Name	Activity	Target		Achievement		Total value of resource generated/Fund received from diff. sources (Rs.)
		Number of activity	No. of farmers/ beneficiaries	Number of activity	No. of farmers/ beneficiaries	
Bolangir	OFTs	10	56	10	56	
Bolangir	FLDs – Oilseeds (activity in ha)	5	12	5	12	
Bolangir	FLDs – Pulses (activity in ha)	5	13	5	13	
Bolangir	FLDs – Cotton (activity in ha)	10	15	10	15	
Bolangir	FLDs – Other than Oilseed and pulse crops(activity in ha)	25	80	25	88	
Bolangir	FLDs – Other than Crops (activity in no. of Unit/Enterprise)	223	73	223	73	
Bolangir	Training-Farmers and farm women	30	750	31	782	
Bolangir	Training-Rural youths	6	100	6	100	
Bolangir	Training- Extension functionaries	4	40	4	40	
Bolangir	Extension Activities	343	7724	343	7724	
Bolangir	Seed Production (Number of activity as seeds in quintal)	300		329.42		633797
Bolangir	Planting material ((Number of activity as quantity of planting material in quintal)					
Bolangir	Seedling Production (Number of activity as number of seedlings in numbers)	1000		540		2700
Bolangir	Sapling Production (Number of activity as number of sapling in numbers)					
Bolangir	Other Bio- products					
Bolangir	Live stock products					
Bolangir	SAC Meeting (Date & no. of core/official members 23.02.2011)			1	40	
Bolangir	Newsletters (no.)					
Bolangir	Publication (Research papers, popular article)			4	2000	
Bolangir	Convergence programmes / Sponsored programmes			1	50	
Bolangir	KVK-ATMA Linkage programme (Number of activities)			8	92	
Bolangir	Outreach of KVK in the District (No. of blocks, no. of villages)			8 block	46 villages	
Bolangir	Soil sample tested			142	142	
Bolangir	Water sample tested					
Bolangir	KMA (No. of messages & beneficiaries)	24	168	20	150	

1. GENERAL INFORMATION

1.1. Staff Position (as on date)

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	-								
Bolangir	Subject matter Specialist & I/C Programme Coordinator	Sri Tushar Ranjan Mohanty	Agronomy	M.Sc (Ag)	Agronomy	15600-6000-39000	19050+6000	08-04-2011	Regular	Others
Bolangir	Subject Matter Specialist1	Sri Kamalakanta Behera	Agril. Extension	M.Sc(Ag)	Agril. Extension	15600-6000-39000	15600+6000	19.04.2010	Regular	Others
Bolangir	Subject Matter Specialist2	Sri Nrusingh Charan Barik	Plant Protection	M.Sc(Ag)	Nematology	15600-6000-39000	15600+6000	30.04.2010	Regular	Others
Bolangir	Subject Matter Specialist3	Sri Dipsika Paramjita	Ag. Engineering	M.Tech (Ag.Eng g.)	Soil & water conservation Engineering	15600-6000-39000	15600+6000	04.06.2010	Regular	Others
Bolangir	Subject Matter Specialist4	Smt Sasmita Purohit	Home Sc	M.Sc (H.Sc.)	Food & Nutrition	15600-6000-39000	19050+6000	11.06.2010	Regular	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		9300-4200-34000/-	12550-4200	21.11.2009	Regular	Others
Bolangir	Accountant / superintendent	Vacant								
Bolangir	Stenographer	Vacant								
Bolangir	Driver	Sri Sradhanshu Sekhar Pattanaik				3050	3050	17.08.2010	Regular	Others
Bolangir	Driver	Vacant								
Bolangir	Supporting staff	Sri Sagar Chhatria				2550	2550	21.11.2009	Regular	Others
Bolangir	Supporting staff	Vacant								

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

Bolangir district lies between 20° 9' N to 21° 5' N latitude and 82° 39' E to 85° 15' E longitude under the west central table land (WCTL) zone. The district spread over 6569 sq. km. accounting for 38.21% of the total geographical area (17,190 sq.km.) of the WCTL zone. It has three physiographic units viz. Plain land, undulating plain land and undulating sub-mountainous tract. The district is surrounded by Sonepur, Bargarh, Nuapada, Kalahandi and Boudh district. The main river of the district is Tel. Besides Tel, there are other rivers like Sonegarh, Lanth, Ong, Suktel, Under and Rahul. The district consists of three Subdivisions, 14 Blocks, 285 Grampanchayats, 1794 villages and 4 local bodies.

01	Agro-climatic zone	West central table land zone	
01	Geographical area in ha		6,57,500
02	Location	Longitude	82° 39' E to 85° 15' E
		Latitude	20° 9' N to 21° 5' N
03	Forest area (ha)		154385
04	Cultivated area (ha)	Highland	1,89,325
		Medium land	70,155
		Low	85,995
		Total	3,45,475
05	Irrigated area (ha)	Kharif	76,770
		Rabi	30,100
06	No. of Sub-division		03
07	No. of Blocks		14
08	No. of G.P.		285
09	No. of D.A.O. circle		03
10	No. of A.A.O. circle		28
11	No. of PACS		160
12	No. seeds sale centre	Govt.	28

13	Population as per 2001 census		13,37,194
		Male	6,73,985
		Female	6,63,209
14	Sex ratio		1000:984
15	SC Population		226300 (17%)
16	ST population		275822 (21%)
17	Literacy rate		55.70%
18	Average holding size in ha		1.43
19.	Rain fall		1283mm
20.	Soil type		Mixed Red & black, Red, Laterite & Mixed red and yellow

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	Fatakara	2009	Puintala	15	1180	473
Bolangir	Lepta	2009	Puintala	18	783	297
Bolangir	Larkipalli	2010	Bolangir	02	649	184
Bolangir	Khujenpali	2010	Bolangir	09	986	343
Bolangir	Kareldhua	2010`	Saintala	28	592	278

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

KVK Name	THRUST AREA
Bolangir	Crop diversification
Bolangir	Reclamation of degraded land
Bolangir	Integrated Nutrient Management practices
Bolangir	Integrated Disease and Pest Management practices
Bolangir	Quality seeds and seedling production
Bolangir	Income generating activities for rural women/ school dropouts
Bolangir	Value addition to seasonal vegetables
Bolangir	Integrated farming system
Bolangir	Proper health management of domestic animals & birds
Bolangir	Marketing and production strategies
Bolangir	Recycling of farm wastes for vermicompost
Bolangir	Farm mechanization
Bolangir	Off season vegetable cultivation
Bolangir	Promotional of nutritional garden
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
Bolangir	Severe soil erosion in sloppy uplands	Through PRA tools and Discussion with the group of farmer, farm women and rural youth
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
Bolangir	Non availability of waste land management techniques	Group discussion, PRA in sample villages
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
Bolangir	Severe crop weed competition in Kharif upland crops	Discuss with farmers, crop observation, sample study and PRA
Bolangir	Non availability of enough inputs (seed, fertilizer, pesticides) in timely	Discuss with farmers and fertilizer dealers, discuss with district administration and JQCI of agriculture department
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
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
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.
Bolangir	.Low availability and adoption of dryland farming technique	Through PRA tools and Discussion with the group of farmer, farm women and rural youth
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

2. On Farm Testing

2.1 Information about OFT

KVK name	Year/season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situations	Title of OFT	No. of trials	Results (with parameter)		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
Bolangir	2010/Kharif	Low yield of medium land Paddy due to severe weed problem	Assessment	Weed Management	Crop	Rainfed Mediumland	Assessment of weedicide Oxadiargyl 80% WP in Transplanted Paddy	5	Weed dry wt. /m ² at 20 DAT (g)- 115.7 Weed dry wt. /m ² at 40 DAT(g) -64.0	Weed dry wt. /m ² at 20 DAT (g)- 43.5 Weed dry wt. /m ² at 40 DAT(g) – 27.6	6000	13000	The herbicide Oxadiargyl is very effective in controlling weeds in transplanted Paddy
Bolangir	2010/kharif	Low yield due to use of local variety	Assessment	ICM	Crop	Irrigated Medium land	Assessment of SRI method of cultivation in variety <i>Lalat</i>	5	No. of tillers per hill- 8.6 No. of grains per panicle – 105.8	No. of tillers per hill – 26 No. of grains per panicle – 145.7	18600	37000	Sri method of cultivation is suitable for well drained medium land condition of the district in Kharif season
Bolangir	2010/Kharif	Low yield of Okra due to high infestation of shoot & fruit borer	Assessment	IPM	Crop	Rainfed	Assessment of Spinosad 45sc@75gm a.i./ha (3ml/10lit. of water) to control of shoot and fruit borer of okra	08	No. of infested shoots per sq.m - 6	No. of infested shoots per sq.m – 1.2	71800	117900	Twice application of Spinosad@0.3ml/lit 30DAS &45DAS
Bolangir	2010/Kharif	Low yield of Brinjal due to high infestation of shoot & fruit borer	Assessment	IPM	Crop	Irrigated	Assessment of Indoxacarb 15sc@30gm a.i./ha (4ml/10lit. of water) in Brinjal (<i>Awant</i>) to control shoot & fruit borer	06	No. of infested fruits per sq.m – 4.5	No. of infested fruits per sq.m – 0.6	81800	105400	Thrice application of Indoxacarb
Bolangir	2010/Kharif	Low yield of Onion due to unavailability of suitable high yielding variety	Assessment	Varietal Substitution	Crop	Rainfed	Assessment of Variety Agri Found Darkred	05	Bulb wt. – 22g.	Bulb wt. – 32.4g.	46985	129125	Variety ADR is suitable for commercial cultivation in Kharif season

		for Kharif season											
Bolangir	2010/ Kharif	Low yield of Colocassia due to use of local variety	Assessment	Varietal substitution	Crop	Rainfed	Assessment of Variety Muktakesi	05	No. of corns per plant – (4-5)	No. of corns per plant – (2-3)	100000	124500	Variety Muktakesi is suitable for large scale production in Kharif season
Bolangir	2010/ Kharif	More labour, much time and high cost involvement in manual weeding	Assessment	Location specific drudgery reduction technology	Enterprise	Rainfed	Assessment of rakeweeder in Groundnut for drudgery reduction of farm women	03	Field capacity- 0.002ha/hr Weeding cost - 4500/- per ha Work pulse 20 beats/min	Field capacity- 0.008ha/hr weeding cost - 1350/-per ha Work pulse 40 beats/min	25900	28350	Use of rake weeder is recommended for drudgery reduction of farm women
Bolangir	2010/ Kharif	Insufficient income of the Landless labourer	Assessment	Income generating activity for rural women	Enterprise	Rainfed	Assessment of vanaraja in free range system	10	1.0 Kg wt / Yr. 35 no. of eggs /Yr	3.5 Kgw./Yr 220 nos. of eggs /Yr.	6000	22250	A very good source of income for farm women
Bolangir	2010/ Kharif	More labour, much time and high cost involvement in manual method for removal of groundnut seed shell	Assessment	Location specific drudgery reduction technology	Enterprise	Rainfed	Assessment of Groundnut Decorticator for Drudgery reduction	5	Output-2kg/hr Labour efficiency – 6mandays / qtl	Output-30kg/hr Labour efficiency – 0.75 mandays /qtl	-	-	Use of Groundnut Decorticator saves drudgery, time and cost of shelling
Bolangir	2010/ Kharif	High spoilage because of low storage life of vegetables.	Assessment	Storage loss minimization technique	Enterprise	Rainfed	Assessment of zero energy cool chamber for storage of fresh vegetables	3	Storage life- Vegetables (1-2) days Temp – (38-40)°C	Storage life – (4-5) days Temp – (24-26)°C	-	6000	Cool chamber can only be constructed in homestead having better drainage facility

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	Demo	Check	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 weedicide Oxadiargyl 80% WP in Transplanted Paddy	Grain Yield	34 qtl/ha	28 qtl/ha	22000	21000		28000	34000		6000	13000		1.27	1.61	
Bolangir	Assessment of SRI method of cultivation in variety lalat	Grain Yield	58.4 qtl/ha	39.6 qtl/ha	21000	21400		39600	58400		18600	37000		1.88	2.72	
Bolangir	Assessment of Spinosad for controlof shoot &fruit borer of okra	Fruit Yeild	156.4qtl /h	106.8 qtl/ha	35000	38500		106800	156400		71800	117900		3.05	4.06	
Bolangir	Assessment of Indoxacarb in Brinjal (Awant)	Fruit Yield	255 qtl /ha	210 qtl / ha	44200	47600		126000	153000		81800	105400		2.85	3.21	
Bolangir	Assessment of Variety Agri Found Darkred	Yield	174.6 qtl / ha	82.2 qtl / ha	35215	45475		82200	174600		46985	129125		2.33	3.83	
Bolangir	Assessment of variety Muktakesi	Rhizome Yield	172 qtl / ha	120 qtl / ha	44000	47500		144000	172000		100000	124500		3.27	3.62	
Bolangir	Assement of rakeweeder for drudgery reduction of farm women	Avg. cost of weeding (Rs/ha)	Rs.1350 /ha	Rs4500/ ha	17500	14350		43400	42700		25900	28350		2.48	2.97	
Bolangir	Assement of vanaraja in free range area	Avg. Body wt./year No. of eggs	3.5Kg	1.0kg	2000	2250		8000	24500		6000	22250		4	9.88	
Bolangir	Assessment of	Yield per	2.0Kg	1.5Kg	30	25		60	80		30	55		2	3.2	

	Dhingri mushroom by using different substrate	bed in Kg.														
Bolangir	Assessment of Groundnut Decorticator	Cost of decorticating	Rs600/- per qtl	Rs.120/- per qtl												
Bolangir	Assessment of Zero Energy Cool Chamber	Storage life Temp	Leafy vegetable – 3days Other vegetable – 7days Tuber crops- 60days Curd – 4days (24-26) ⁰ C	Leafy vegetable – 1days Other vegetable – 2days Tuber crops- 30days Curd- 2days (38-40) ⁰ C	New	3000/-			Save of fruit & vegetable per unit (Rs)- 9000/-			Cost of net save 6000/-		-	3:1	

2.3 Feedback from KVK to Research System

Name of KVK	Feedback
Bolangir	<ol style="list-style-type: none">1. Development of an effective post emergence of herbicide in transplanted paddy is essential to control broad leaf weeds.2. Modification of weeding equipments such as conoweeder, mandua weeder for suitability according to soil type.3. Less costly but equal effective pesticide may be developed.4. Effectiveness of the insecticide may be tested against other crop pest.5. Short duration high yielding variety for kharif season may be developed.6. Colocasia of white screen in round shape may be developed.7. Rakeweeder of adjustable/ rotating width may be developed8. Egg laying capacity of Vanaraja breed may be increased.9. The gap between screen and rubbing plate of decorticator may be refined according to different groundnut variety.10. The cool chamber may be developed to increase the storage life of vegetables up to two weeks

3. Achievements of Frontline Demonstrations

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

List of technologies demonstrated and popularized during previous years and recommended for large scale adoption in the district

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	Oyster Mushroom	Income generation Activity	Oyster mushroom (P.Sajarcaju)	Large Scale Demonstration, Electronic & Printmedia coverage	08	145	1500 beds
Bolangir	Tomato	ICM	High yielding Tomato variety Avinash	Leaflet, Field day, Exhibition, Exposure visit.	13	420	76 ha
Bolangir	Paddy	INM in irrigated paddy	Soiltest & Balanced use of fertilizer for Rabi Paddy in irrigated condition	Highly Popularised Soil test Campaign, Extension functionaries & media coverage	14	145	58 ha

3.2 Details of FLDs implemented

KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop- Area (ha) / Entrep - No.	Name of Variety/Tec hnology/En treprizes	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Bolangir	Varietal substitution	Paddy	Khrif-2010	HYV Yogesh	2 ha	<i>Yogesh</i>	37.6	23.4	60.6	1		2	3	6
Bolangir	INM	Maize	Kharif 10	Application of zinc sulphate @ 25 kg/ha	2 ha	<i>Double</i>	36.2	31.6	14.5	1	1	1	1	4
Bolangir	ICM	Maize + Pigeonpee	Kharif 10	Inter cropping Maize + Arhar (2:2)	2 ha	<i>Praval + Asha</i>	55.6	34.2	62.5	1	1		3	5
Bolangir	Varietal substitution	Bottle gourd	Kharif 10	High yielding variety, need based PP measures	2.5 ha	<i>Pusa Naveen</i>	168	120	40		1	1	3	5
Bolangir	Varietal substitution	Banana	Kharif 10	Tissue culture Banana	0.2 ha	<i>G9</i>				1	1	1	2	5

Bolangir	IPM	Pumpkin	Kharif 10	Malathion Bait	2 ha	<i>Baidhyabati</i>	270	225	20	2	1		2	4
Bolangir	IPM	Cotton	Kharif 10	Thrice release of Trichocards 20000/ ac in 10 days interval, Arhar and Caster as border crops, maize as inter crop	5 ha	<i>Tulsi (Hybrid)</i>	14.5	11.3	28.3	3		2		5
Bolangir	Production of organic inputs	Vermicompost	Kharif 10	Low cost RCC ring	4	<i>E. foetida</i>	1.5	Nil		1			3	4
Bolangir	Income generation activities for farmwomen	Mushroom (paddy straw)	Kharif 10	Scientific guideline of mushroom cultivation	100 beds	<i>V. Volvacea</i>	1.5 kg /bed	New	100	4		6		10
Bolangir	Location specific drudgery reduction	Bhendi Plucker	Kharif 10	Use of finger mounted plucker	200	Bhendi plucker	8 kg/hr	3kg/hr	166	3	2	5	0	10
Bolangir	Income generation activities for farmwomen	Mushroom (Dhingri)	Rabi 10-11	Scientific guideline of mushroom cultivation	100 beds	<i>Pleurotus sajorcaju</i>	2 kg/bed	New	100	5		5		10
Bolangir	Household food security by nutritional gardening	Hybrid variety of Cabbage, tomato, cucumber, lady's finger, brinjal	Rabi 10-11	Hybrid variety, intercropping & rotation wise cropping	0.8ha	Hybrid variety	172	143	20.2	2	1	7		10
Bolangir	Storage loss minimization techniques	Storage bin	Rabi 10-11	Metalic storage bin	3		3.5 %	12 %	-70.83			3		3
Bolangir	IWM	Sugarcane	Kharif 2010	Drip Irrigation	2ha	<i>62A175</i>	1760	804	120	1	1	3		5
Bolangir	IWM	Banana	Kharif 2010	Drip irrigation	0.4ha	<i>G9</i>	Continuing					2		2
Bolangir	IWM	Greengram	Rabi 2010	Sprinkler Irrigation	2ha	Local	6.75	4.2	60.7			2		2
Bolangir	Farm Mechanization	Paddy Reaper	Kharif 2010	Self propelled Paddy Reaper	7	Paddy Reaper	0.3ha/hr	0.004ha/hr		1	1	5		7

3.3Economic Impact of FLD

KVK Name	Name of Crop/ Enterprise	Technology demonstrated	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	Demo	Check	Demo	Check	Demo	Check	Demo	Check	Demo	Local Check
Bolangir	Paddy	FLD on short duration paddy variety Yogesh	No. of effective tiller / hill No of grains/ panicle	6.4 84.6	3.6 71.2	19400	15900	37600	23400	18200	7500	1.94	1.47
Bolangir	Maize	Application of zinc sulphate @ 25 kg/ha	No of seeds / cob Test weight (gm)	245 27.2	222 27.1	21400	20200	36200	31600	14800	11400	1.69	1.56
Bolangir	Maize + Pigeonpea	Inter cropping Maize + Arhar (2:2)	Yield	55.6 (maize equivalent yield)	34.2	24800	20500	55600	34200	30800	13700	2.24	1.66
Bolangir	Bottle gourd	High yielding variety Pusa Naveen	Female flower/ plant Fruit/ Plant	26 18	12 7	21000	19000	67200	48000	46200	29000	3.2	2.52
Bolangir	Banana	Tissue culture Banana	Continuin g	-	-								
Bolangir	Pumpkin	Malathion Bait	No of fruit /plant	8	5	36210	32370	135000	112500	98790	80130	3.72	3.47
Bolangir	Cotton	Trichocards pheromonetrap border crop	No. of predators / sq.m	7	1	22000	18000	58000	45200	36000	27200	2.63	2.51
Bolangir	Vermicompost	E.foetida	qtl/Yr	1.5	-	2000	Nil	4500	-	2500	-	2.25	-
Bolangir	Paddy straw mushroom	Cultivation practices of mushroom with scientific guideline	Yield (Kg/bed)	1.5	-	Rs.50 / bed	New	120	-	70	-	2.4	-

Bolangir	Bhendi Plucker	Use of finger mounted plucker	Harvest efficiency (kg/hr) Harvest comfort	8 Nil	3 3-4 cuts/finger	36000	40000	71000	64000	35000	24000	1.97	1.60
Bolangir	Dhingri mushroom	Cultivation practices of mushroom with scientific guideline	Yield (Kg/bed)	2.0		25		80		55		3.2	
Bolangir	Nutritional garden	Hybrid variety, intercropping facility, rotation wise cropping,	Yield (q/ha)	172	143	18540	9215	39500	17390	20960	8175	2.13	1.8
Bolangir	Storagebin	Storage of rice inside metallic bin	% grain effected by pest Capacity	3.5 2.5 q	12 0.75	1400	200						
Bolangir	Sugarcane	Drip irrigation	Yield T/ha	176	80.4	120000	62000	316800	144720	196800	82720	2.64	2.33
Bolangir	Banana	Drip irrigation	Yield T/ha	Result awaited									
Bolangir	Greengram	Sprinkler irrigation	Yield qtl/ha	6.75	4.2	11700	10600	33750	21000	22050	10400	2.88	1.98
Bolangir	Paddy Reaper	Use of Self propelled paddy reaper for harvesting of paddy crop	Field Capacity Labour efficiency	0.3ha/hr 0.83mandays/ha	0.004 ha/hr 30mandays / ha	21625	22675	45000	45000	23375	22325	2.08	1.98

3.4 Feedback of the Farmers

Name of KVK	Feedback
Bolangir	1. The variety is able to escape terminal drought in upland
Bolangir	2. The number of filled cobs is more in treated plot.
Bolangir	3. Intercropping in Arhar fetches more income as the price of Arhar remains high in the market
Bolangir	4. Farmers are delighted with more number of small size fruits
Bolangir	5. Farmer is happy due to utilization of household vegetable and garden wastage.
Bolangir	6. Farmer is delighted with less fruit drop in treated plant
Bolangir	7. The low cost pest control technique is most appreciated by the farmers
Bolangir	8. Yield of the <i>V. Volvacea</i> is better than the variety <i>V. Diplasia</i> and the farmwomen demand easy availability of spawn, due to additional income for the family
Bolangir	9. Farmwomen are interested to adopt this technology because it saves labour cost, time & energy.
Bolangir	10. The yield of <i>Plurotus florida</i> is good in low temperature where as the yield of <i>Plurotus Sajarcasu</i> is better in medium temperature.
Bolangir	11. It gives nutritional security for the family member and rotation wise utilization of backyard space.
Bolangir	12. Minimization of grain pest management occurred inside storage bin
Bolangir	13. Initial cost of drip irrigation is very high
Bolangir	14. In-built sprinkler irrigation system at low cost should be developed so that transportation of sprinkler pipe to field can be avoided during irrigation time.
Bolangir	15. Use of paddy reaper saves labour & time and reduces the cost of production.

3.5 Training and Extension activities under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Bolangir	Blackgram	Field days	1	50	
		Farmers Training			
		Media coverage			
		Training for extension functionaries			
Bolangir	Arhar	Field days	1	50	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Bolangir	Cotton	Field days	1	50	
		Farmers Training	1	50	
		Media coverage			
		Training for extension functionaries			
Bolangir	Greengram	Field days			
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Bolangir	Nutritional Garden	Field Day	1	50	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Bolangir	Paddy Reaper	Farmers Training	1	25	

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 discussion, survey	14.8.10/Kareldhua	25
Bolangir	FW	Group discussion, survey	25.9.10/Fatakara	25
Bolangir	FW	PRA	16.11.10/Larkipalli	25
Bolangir	RY	Group discussion	28.12.10/Badighara	25

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	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		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											
Bolangir	FW	OFC	CRP											
Bolangir	FW	OFC	CRP											
Bolangir		OFC	HOV											
Bolangir		ONC	HOF											
Bolangir		OFC	HOO											
Bolangir			HOP											
Bolangir			HOT											
Bolangir			HOS											
Bolangir			HOM											
Bolangir			SFM											
Bolangir			LPM											
Bolangir	FW	OFC	LPM											
Bolangir	FW	OFC	LPM											
Bolangir	FW	OFC	WOE	Paddy straw mushroom cultivation	1	2		0	0	0	0	1	0	24
Bolangir	FW	OFC	WOE	Development of dual purpose backyard poultry-Banaraja	1	2		0	0	0	0	1	0	24
Bolangir	FW	OFC	WOE	Paddy straw mushroom cultivation	1	2	0	0	0	0	0	25	0	0
Bolangir	FW	OFC	WOE	Dhingiri mushroom cultivation	1	2	0	0	0	4	0	9	0	12
Bolangir	FW	OFC	WOE	Preparation of value added products from tomato	1	2	0	0	0	0	0	0	0	25
Bolangir	FW	OFC	WOE	Fodder cultivation by WSHGs	1	2	0	0	0	0	0	0	0	25
Bolangir	FW	OFC	WOE	Preparation of low cost vermicompost unit by farm women	1	2	0	0	0	0	0	0	0	25
Bolangir	FW	OFC	WOE	Preparation of value added product from tomato	1	2	0	0	0	6	0	0	0	19
Bolangir	FW	OFC	WOE	Development of nutritional garden for sustainable nutritional security	1	2	0	0	0	0	0	0	0	25

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		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	Cultivation practices of hybrid papaya by farm women	1	2		0	0	3		0		22
Bolangir														
Bolangir	FW	OFC	CBD	Role and responsibilities of self help group	1	2								25
Bolangir	FW	OFC	CBD	Leadership development for community work	1	2					2		23	
Bolangir	FW	OFC	CBD	Drip irrigation in sugarcane	1	2			4	1	5	1	12	2
Bolangir	FW	OFC	AEG	Farm Implements for drudgery reduction on Farm women	1	2			2	19				4
Bolangir	FW	OFC	AEG	Introduction to a new storage structure – Zero Energy Cool chamber	1	2						1	10	14
Bolangir	FW	OFC	AEG	Use of Paddy reaper	1	2					2		23	
Bolangir	FW	OFC	AEG	Repair & Maintenance of Farm machinery implements, Tractor & Power tiller	1	2			7			3	15	
Bolangir	FW	OFC	AEG	Post harvest technology on paddy	1	2			12	6	4		3	
Bolangir	FW	OFC	AEG	Small scale processing and value addition to surplus seasonal fruits	1	2			4	9			4	15
Bolangir	FW	OFC	AEG	Importance water harvesting – Irrigation methods	1	2			2		5		18	
Bolangir	FW	OFC	AEG	Use of paddy drum seeddrill for sowing pre germinated paddy seeds	1	2					8		17	
Bolangir	FW	OFC	AEG	Poly houses and Plastic Mulching	1	2			5		2		18	
Bolangir	FW	OFC	AEG	SRI method of paddy cultivation using cono weeder, mandua weeder, marker	1	2					3	1	14	7
Bolangir	FW	OFC	AEG	Installation and maintenance of micro irrigation in vegetable crops	1	2	3		1		1		20	
Bolangir	RY	OFC	CBD		1				1				19	
Bolangir	RY	OFC	AEG	Agri-Enterpreneurship to establish Agro Service Centre (Custom Hiring Centre for Agri Machinery)	1	3			1				14	
Bolangir	RY	OFC	AEG	Cost effective method of Paddy cultivation by using self propelled Paddy transplanter	1	3	2		3				10	
Bolangir	IS	OFC	WOE	Homestead vocation activities	1	1	0	4	0	4	0	1	0	1
Bolangir	IS	OFC	AEG	Machines for resource conservation and farm diversification	1	1		3		1		1	4	1
Bolangir	IS	OFC	AEG	Construction and maintenance of storage structure	1	1	2	3	1	1		1	1	1

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		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	PLP	Integrated pest management in kharif pulses	1	2	0	0	1	0	1	0	23	0
Bolangir	FW	OFC	PLP	Integrated pest management in kharif maize	1	2	1	0	0	0	0	0	24	0
Bolangir	FW	OFC	PLP	Integrated pest management in kharif cole crops	1	2	2	0	4	0	3	0	16	0
Bolangir	FW	OFC	PLP	Entomophaga concept in cotton	1	2	12	3	12	7	5	1	8	2
Bolangir	FW	OFC	PLP	Integrated pest management in okra	1	2	0	0	2	0	0	2	16	5
Bolangir	FW	OFC	PLP	Integrated pest management in sugarcane	1	2	5	0	0	0	0	0	20	0
Bolangir	IS	OFC	PLP	Biological control of sugarcane pests	1	2	4	2	0	0	0	0	4	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					
					SC		ST		Others	
					M	F	M	F	M	F
Bolangir	Preparation of value added products from mushroom, seasonal fruits vegetables	Mushroom, fruits, vegetables	Value addition	5						10
Bolangir	Use and maintainance of power sprayer	Small tools and implements	Farm mechanisation	3	5		9		1	
Bolangir	Vermicomposting for income generation	Vermicompost	Income generation	3	0	0	0	0	15	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	Development of dual purpose backyard poultry-Banaraja	Free range	5	5	

Table 5.4. Sponsored Training Programmes

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)	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		
Bolangir	Water management training programme	Increase scale of water productivity		FW	7	1	30	17	2	1			RRTTS, Chipilima	63000

Table 5.5 Training Programmes for Panchayatiraj Institutions Office-bearers & members

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)	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		

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	Paddy straw mushroom cultivation	50	2	8		1.5 kg/bed		70/bed	30 nos of trainees adopted
Bolangir	Development of dual purpose backyard cultivation	25	3	7	1kg/bird	3kg/bird	180	420	20 nos of trainees adopted
Bolangir	Dhingiri mushroom cultivation	25	2	7		2kg/bed		55/bed	10 nos of trainees adopted
Bolangir	Preparation of value added products from tomato	50	1	9			500	2500	50 nos of trainees adopted
Bolangir	Fodder cultivation by WSHGs	25	2	8	0.5 kg/unit	1 kg/unit			10 nos of trainees adopted
Bolangir	Preparation of low cost vermicompost unit by farm women	25	1	8		0.8 q/tank		2400/tank	15 nos of trainees adopted
Bolangir	Development of nutritional garden for sustainable nutritional security	25	2	8	142 q/ha	172 q/ha	17,390	39,500	13 nos of trainees adopted
Bolangir	Cultivation practices of hybrid papaya by farm women	25	2	8					10 nos of trainees adopted
Bolangir	Homestead vocation activities	10	2	8					10 nos of trainees adopted
Bolangir	Role and responsibilities of self help group	20	4	6					20 nos of trainees adopted
Bolangir	Leadership development for community work	25	3	7					25 nos of trainees adopted
Bolangir	Drip irrigation in sugarcane	25	2	8	120q/ha	170q/ha	1,90,000	82,000	10 nos of trainee adopted
Bolangir	Use of paddy reaper	25	4	6			nil	1745/ha	No. of farmers adopted (5)

Bolangir	Agripreneurship to establish agro service centre	15	3	7			nil	15,000/month	No. of farmers established (1)
Bolangir	Zero Energy Cool chamber	25	0	10		90qtl saving in fruits & vegetables	nil	8,000/unit	No. of farmers adopted (14)
Bolangir	Use of Paddy drum seed drill for sowing pregerminated paddy seeds	25	0	10	33qtl/ha	38qtl/ha	35,200	36300	No. of farmers adopted (18)
Bolangir	Micro irrigation in field crops	25	4	6	3qtl/ha	7qtl/ha	18,000	42,000	No. of farmers adopted (16)
Bolangir	Farm implements for drudgery reduction on farm women	25	1	9					No. of farmers adopted (12)
Bolangir	Post harvest Management in paddy	25	4	6			20,000	26,000	16 nos. of farmers adopted
Bolangir	Integrated pest management in kharif pulses	25	4	8	6	10		12000/ha	20 nos of farmers adopted
Bolangir	Integrated pest management in kharif maize	25	3	6	7.3	15		4600/ha	16 nos. of farmers adopted
Bolangir	Integrated pest management in kharif cole crops	25	2	9	48	75		3800/ha	25 nos. of farmers adopted
Bolangir	Entomophaga concept in cotton	50	2	6	7.3	12		13300/ha	39 nos. of farmers adopted
Bolangir	Integrated pest management in okra	25	5	7	124	175		5400/ha	15 nos. of farmers adopted
Bolangir	Integrated pest management in sugarcane	25	4	8	84	102		45000/ha	21 nos. of farmers adopted
Bolangir	Use and maintainance of power sprayer	15	0	6	0	New		1500/wk	15 nos. of farmers adopted
Bolangir	Vermicomposting for income generation	15	0	8	0	3q/tank		15000/year	15 nos. of farmers adopted

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	10	5	130	35	40	10	35	0	On the principle of Seeing is Believing	1-Arhar variety <i>Asha</i> , 2 Black gram var- <i>Prasad</i> , 3-Application of zinc sulphate in Maize, 4- <i>Entomophaga</i> concept in cotton, 5- Zero energy cool chamber	1-Maturity, 2- Fruiting, 3-Cob stage, 4- Harvesting stage, 5-Completion stage
Bolangir	Kisan Mela											
Bolangir	Kisan Ghosthi		36	315	130	75	50	20	10	Strengthening and capacity building of Farmers groups		
Bolangir	Exhibition	2	1	MASS								
Bolangir	Film Show		2	32	11	15	5	5	12	Information dissemination	1- IPM in Okra, 2- SRI method of cultivation	1-vegetative stage, 2-Nursery stage
Bolangir	Method Demonstrations											
Bolangir	Farmers Seminar	3	3									
Bolangir	Workshop											
Bolangir	Group meetings		60	545	339	351	165	30	70	Identification, prioritization of problems and problem analysis		
Bolangir	Lectures delivered as resource persons		86	525	365	422	298	60	80	Information dissemination		
Bolangir	Newspaper coverage		06	MASS						Popularization of new technologies and highlightining the activities of KVK	1-KVK inauguration, 2-SAC Meeting, 3-water management training, 4-FLD on cotton, 5- Kharif onion var; <i>Agri found Dark Red</i>	
Bolangir	Radio talks	15	16	MASS						Information dissemination and popularization of new technologies	1-Maize cultivation, 2-Formation of SHG, 3-Farm Implements for Paddy cultivation, 4- Oilseed Crops, 5-Sugacane Cultivation, 6- Agril. Implements, 7-Value addition of Tomato, 8- Vermicompost, 9-Organic Farming, 10- SRI cultivation11- Mushroom cultivation	
Bolangir	TV talks	3	1	MASS						Information dissemination and popularization of new technologies	Cropping system	
Bolangir	Popular articles	4	4							Information dissemination	1- Acid soil management, 2- Maize cultivation, 3-Dry land farming, 4-Summer vegetable	

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			
											cultivation	
Bolangir	Extension Literature											
Bolangir	Farm advisory Services											
Bolangir	Scientific visit to farmers field		129	82	12	35				Identification, prioritization of problems and problem analysis	Site selection for conducting OFT & FLD, pest and disease identification on Application of herbicide, Fruit and shoot borer in heliothis, bollworm management in cotton.	
Bolangir	Farmers visit to KVK		878	425	75	240	66	49	23	Information on new technologies, problem identification		
Bolangir	Diagnostic visits		24	55		32				Identification, prioritization of problems and problem analysis	BLB in paddy, blast in paddy	
Bolangir	Exposure visits	1	1	6	0	1	0	0	0	Seeing is believing	Bitter gourd seed production field at Khaprakhol block	
Bolangir	Ex-trainees Sammelan		1	11	4	8	2			Sharing of experiences among peer groups and information		
Bolangir	Soil health Camp											
Bolangir	Animal Health Camp		2	44	36	50	23	12	15	Prophylactic prevention of disease outbreak		
Bolangir	Agri mobile clinic											
Bolangir	Soil test campaigns											
Bolangir	Farm Science Club conveners meet		5	32	20	43	10	5	10	Strengthening of farmers club, capacity building among members and Sharing of experiences among peer groups and information		
Bolangir	Self Help Group conveners meetings											
Bolangir	Mahila Mandals conveners meetings											
Bolangir	Celebration of important days		1		47		3			Popularization of important days	Womens Day	

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
	-	-	-	-

7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Bolangir	Leaflet	Kharatia panipariba chasa	Dr. S.C.Mohapatra	500
Bolangir	Leaflet	Maka phasalara chasa	Dr. S.C.Mohapatra	500
Bolangir	Leaflet	Amla mati ebong ehara	Dr. S.C.Mohapatra	500
Bolangir	Leaflet	Suskanchalare phasala chasara baigyanika kausala	Dr. S.C.Mohapatra	500

7.3 Details of Electronic Media 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	Type of produce (for Seed produced type hear SD; For Planting Material type here PM)	Quantity	Unit for quantity of produces (qtl for SD and Nos for PM)	Value (Rs.)	Provided to No. of Farmers
Bolangir	Cereals							
Bolangir	Paddy	Paddy	Lalat	SD	99	qtl	188100	
	Paddy	Paddy	MTU-7029	SD	228.60	qtl	434340	
Bolangir	Pulses							
Bolangir	Arhar	Arhar	Asha	SD	0.28	qtl	1277	
Bolangir	Sunhemp	Sunhemp		SD	1.54	qtl	1540	

8.2 Planting Material production

KVK Name	Major group/class	Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
						Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Bolangir	Seedlings	Lemon	29-12-2010	15-02-2011		Kagzi lime	Seedling	540	5	2700	

8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

KVK Name	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
	BIOAGENTS				
	BIOFERTILIZERS				
	BIO PESTICIDES				

8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
	Cattle						
	Buffalo						
	Sheep and Goat						
	Poultry						
	Fisheries						
	Others (Specify)						

9. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : NO

Year of establishment : -

9.1 Details of soil & water samples analyzed so far :

KVK Name	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized

10. Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Name of KVK	Date	Title of the training course	Client (PF/RV/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

Accommodation available (No. of beds) : No farmers hostel

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 No quarter

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	23-02-2011	40	<ol style="list-style-type: none"> 1. Popularization of kharif onion 2. IPM for BPH on paddy 3. Popularization of entomophaga concept in cotton. 4. Documentation of success story, publication, leaflet, booklets on the activities of the KVK. 5. To Develop Training module. 6. Demonstration on intercropping 7. Trial on SRI to standardize different sowing method. 8. Popularization of vanaraja poultry variety. 9. Cultivation of Paddy straw mushroom inside poly house, net house 10. Increasing area under sugarcane cultivation to meet the requirement of sugar factory 11. Popularization of KMAS in the district 12. Frequent liasioning with Line Department

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

KVK Name	No. of messages sent	No. of beneficiary		Major recommendations
		Farmers	Ext. Pers.	
Bolangir	20	150	-	IPM

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	ATMA	State	100000	Demo on SRI, Vanaraja poultry, tissue culture banana, low cost vermicomposting, colocassia,	30	Demo s completed for 2010-11
	MNREGA					
	NHM					
Bolangir	RKVY	State	80000	FLD on Sunflower & greengram	10	
	DRDA					
	Zila Panchyat					
	Seed village					
	NAIP					
	Climate Change					
	Others (Plz. Specify)					

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Bolangir	31149194881	100000	11648	11648

17. Awards & Recognitions

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

18. Case study and Success Story – Two best only in the following format

Success Story –I **Successful Farmwomen**

Name of the KVK : KVK-Bolangir, OUAT, Bhubaneswar, Orissa

TITLE : Azolla Cultivation increased income from Dairy Farming

Introduction : Mrs. Sarojini Patel, W/o of Sri Dubai Patel, a middle aged women of village Fatakara in Puintala Block of Bolangir District included dairy as a component with three nos. of Jersey cows in her farming system since five years back. Other major component of her farming system are cultivation of pulses 0.4 ha, medium land paddy 1.2 ha and vegetable 0.56 ha along with paddy straw mushroom cultivation. Among all components maintaining the dairy unit was becoming difficult with ever increasing cost of cattle feeds.



KVK intervention : At this juncture the newly formed KVK, Bolangir intervened in the year 2010 and imparted training to her on Azolla cultivation and demonstration.

Output : The farmwomen constructed three pits of size 2m X 2m X 0.2m from which she gets on an average 4 kg Azolla per day.

Outcome : The farmwomen is able to saves Rs.24,000/- per year towards cost of cattle feeds and extra income Rs. 12,600/- per year

Impact : The milk production has increased from 12 ltrs per day to 15 ltrs per day. The encouraging result motivated another 5 nos farmers to adopt Azolla cultivation in the village.

Success Story –II **Successful Farmer**

Name of the KVK : KVK-Bolangir, OUAT, Bhubaneswar, Orissa

TITLE : Vegetable farming (Okra)

Introduction : Sri. Narahari Rout is a graduate farmer of Larkipalli village in Bolangir District. After completion of his graduation he started farming with his parental land of 2.4 ha adjacent to Bolangir Municipal area. Till the year 2009 he was continuing rice-pulse based farming system with less income of Rs. 60,000/- per annum.



KVK intervention : After the inception of KVK, Bolangir, scientists of KVK constantly guided him and insisted him to go for vegetable farming (Okra Var : Mahyco 10) In the year 2010 and imparted training to him on Okra cultivation and demonstration. He cultivated 0.2 ha of Okra in Kharif-2010



Output : He then went for cultivation of 1ha Okra during rabi season 2010. He harvested about 108 q/ha. Which is double than the earlier varieties.

Outcome : Sri Rout harvested about 108q/ha and earned Rs. 1,29,600 /- a net profit of Rs.81,135/- per ha was obtained against expenditure of Rs. 48,465



19. Details of KVK Agro-technological Park

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

20. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	Remarks
Bolangir	Prof.D.P.Roy,Vice Chancellor, OUAT	28.07.10	Suggested production of foundation seed
Bolangir	Dr.S.S.NandaDean, Extension Education , OUAT	28.07.10	Suggested establishment of spawn production unit
Bolangir	Sri S.N.Dey,Collector, Bolangir	5.4.10	Appreciated the function of KVK

21. Status of KVK Website: Under Construction

22. E-CONNECTIVITY

Name of KVK	Number and Date of Lecture delivered from KVK Hub				No of lectors organized by KVK	Brief achievements	Remarks
	Date	No of Staff attended	No of call received from Hub	No of Call mate to Hub by KVK			
-	-	-	-	-	-	-	-

23. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Bolangir	Gosthies			
Bolangir	Lectures organized	1	30	IPM in Okra
Bolangir	Exhibition			
Bolangir	Film show	2	100	IPM in summer paddy
Bolangir	Fair			
Bolangir	Farm Visit	2	20	Vegetables Rich gourd & Cucumber
Bolangir	Diagnostic Practical's	2	220	Summer vegetables cultivation
Bolangir	Distribution of Literature (No.)			
Bolangir	Distribution of Seed (q)			
Bolangir	Distribution of Planting materials (No.)			
Bolangir	Bio Product distribution (Kg)			
Bolangir	Bio Fertilizers (q)			
Bolangir	Distribution of fingerlings (No)			
Bolangir	Distribution of Livestock specimen (No.)			
Bolangir	Total number of farmers visited the technology week			

24. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries
BOLANGIR	Greengram	5	19
	blackgram	5	19
	cotton	6	15

Major area coverage under alternate crops/varieties

Mane of KVK	Crops	Area (ha)	Number of beneficiaries
	Oilseeds	10	27
	Pulses	15	42
	Cereals	5	14
	Vegetable crops	1	8
	Tuber crops		
	Fruits		
	Spices		
	Cotton	6	15
	Total		

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No.of participants
	Dairy Management		
	Disease management		
	Feed and fodder technology		
	Poultry management		

Animal health camps organised

Name of KVK	Number of camps	No.of animals	No.of farmers
Bolangir	2	180	180

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
Bolangir	60	1500	36	600	20	150			1	mass	2	80

25. **Status of KVK Website:** Already having website/under construction
If available, please provide the address of website: kvkbolangirzpdvii.org

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

OFT –I : Assessment of weedicide Oxadiargyl 80% WP in Transplanted Paddy

Problem : Low yield of transplanted medium land Paddy due to severe weed problem



T1- Farmer's Practice (Var :MTU 1010) without application of Weedicide



T2- Cultivation with application of *Oxadiargyl*

OFT –II : Assessment of SRI method of cultivation in variety Lalat

Problem : Low yield due to improper plant population, weed & water management



T1- Farmer's Practice



T2- SRI (*Lalat*)

OFT –III : Assement of Spinosad 20sc(Tracer) for control of shoot and fruit borer of okra

Problem : Low yield of okra due to high infestation of shoot & fruit borer



Okra- Heavy infestation of shoot & fruit borer



Prepartaion of Spinosad solution



Application of Spinosad in okra

OFT –IV : Assessment of insecticide *Indoxycarb* in Brinjal

Problem : Low yield due to high infestation of shoot & fruit borer in Brinjal



OFT –V : Assessment of Kharif Onion Variety Agri Found Dark Red

Problem : Low yield of Onion due to unavailability of suitable high yielding variety for Kharif season



Kharif Onion Agri Found Dark Red

OFT –VI : Assessment of colocassia variety Muktakesi

Problem : Low yield of Colocassia due to use of local variety



A bumper crop of colocassia Var : Muktakeshi

OFT –VII : Assessment of Vanaraja breed in free range system

Problem : Insufficient income of the Landless labourer



BANARAJA POULTRY WITHIN FREE RANGE SYSTEM

OFT –IX : Assessment of Groundnut Decorticator for Drudgery reduction

Problem : More labour, much time and high cost involvement in manual method for removal of groundnut seed shell



Shelling of Groundnut with the help of Groundnut Decorticator

OFT –X : Assessment of zero energy cool chamber for storage of fresh vegetables

Problem : Low income because of low storage life of fruits & vegetables.



Construction and Installation of drip system to Zero Energy Cool Chamber

FLD – I (Popularization of Arhar Var – Asha)



FLD on Arhar Var - Asha



DRIP IRRIGATION IN SUGARCANE



FLD ON GROUNDNUT VAR :



FLD ON ENTOMOFAGA COTTON



FLD ON GREEN GRAM (NFSM PULSES)





FARMERS VISITING BITTER GOURD SEED PRODUCTION FIELD
ON EXPOSURE VISIT AT LENGDAPADAR , KHAPRAKHOL BLOCK



TRAINING FOR RURAL YOUTH ON VERMI COMPOSTING



CELEBRATION OF BLACK GRAM DAY AT VILLAGE
KARELDHUA



FLD ON SELF PROPELLED PADDY REAPER



FLD on self propelled paddy reappear