ANNUAL PROGRESS REPORT
Krishi Vigyan Kendra, Puri

(April 2011 to March 2012)

Orissa University of Agriculture and Technology
Bhubaneswar -3

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 colour cells in summary table need not to be filled.**

REPORTING PERIOD – April 2011 to March, 2012

Summary of achievements during the reporting period

KVK Name	Activity	Target		Achievement		
		Number of activity	No. of farmers/ beneficiaries	Number of activity	No. of farmers/ beneficiaries	Total value of resource generated/ Fund received from diff. sources (Rs.)
Puri	OFTs	23	109	21	79	
Puri	FLDs – Oilseeds (activity in ha)	1	30	1	30	
Puri	FLDs – Pulses (activity in ha)	1	30	1	30	
Puri	FLDs – Cotton (activity in ha)	-	-	-	-	
Puri	FLDs – Other than Oilseed and pulse crops (activity in ha)	12	80	12	73	
Puri	FLDs – Other than Crops (activity in no. of Unit/Enterprise)	14	77	13	69	
Puri	Training-Farmers and farm women	66	1650	63	1556	
Puri	Training-Rural youths	20	500	17	327	
Puri	Training- Extension functionaries	10	250	6	137	
Puri	Extension Activities	319	5560	319	5560	
Puri	Seed Production (Number of activity as seeds in quintal)	392	-	357.2	-	
Puri	Planting material ((Number of activity as quantity of planting material in quintal)	1500	-	1504	12	9020
Puri	Seedling Production (Number of activity as number of seedlings in numbers)	2000	-	2000	-	
Puri	Sapling Production (Number of activity as number of sapling in numbers)	-	-	-	-	
Puri	Other Bio- products	-	-	-	-	
Puri	Live stock products	-	-	-	-	
Puri	SAC Meeting (Date & no. of core/official members)	18.7.11	18	18.7.11	18	
Puri	Newsletters (no.)	4	2000	1	500	
Puri	Publication (Research papers, popular article)	14	mass	14	mass	
Puri	Convergence programmes / Sponsored programmes	-	-	1	50	
Puri	KVK-ATMA Linkage programme (Number of activities)	-	-	-	-	
Puri	Outreach of KVK in the District (No. of blocks, no. of villages)	9	123	9	123	
Puri	Soil sample tested	-	-	-	-	
Puri	Water sample tested	-	-	-	-	
Puri	KMA (No. of messages & beneficiaries)	77	142	77	142	

1. GENERAL INFORMATION

1.1. Staff Position (dt.31.3.2012)

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)
Puri	Programme Coordinator	Dr. A. Das	Agronomy	Ph.D	Agronomy	15600-39100 AGP-7000	15600	03.08.11	Permanent	GEN
Puri	Subject Matter Specialist1	Babita Mishra	Horticulture	PG	Horticulture	15600-39100 AGP-6000	19050	30.06.07	Permanent	GEN
Puri	Subject Matter Specialist2	S. Baral	Plant protection	PG	Entomology	15600-39100 AGP-6000	19050	27.06.11	Permanent	GEN
Puri	Subject Matter Specialist3	Swagatika Sahu	Fish.Sc	PG	Fish.Sc	15600-39100 AGP-6000	16250	23.4.10	Permanent	GEN
Puri	Subject Matter Specialist4	S. paramaguru	Agri.Extension	PG	Agri.Extension	15600-39100 AGP-6000	16250	07.4.10	Permanent	GEN
Puri	Subject Matter Specialist5	Dr. (Mrs)S. Parichha	Home Sc.	Ph. D.	Home Sc.	37,400-67,000 AGP-10000	49700	09.11.11	Permanent	GEN
Puri	Subject Matter Specialist6	Vacant	-	-	-	-	-	-	-	-
Puri	Programme Assistant	M.R. Behera	Fishery	MFSc	Fishery	9300-34800 AGP-4200	11470	22.3.06	Permanent	GEN
Puri	Programme Assistant	N. Sasmal	Soil.Scie	PG	Soil Science	9300-34800 AGP-4200	11470	20.1.06	Permanent	GEN
Puri	Computer Programmer	P.K. Sahoo	Computer	MCA		9300-34800 AGP-4200	12550	24.12.10	Permanent	OBC
Puri	Accountant / superintendent	Vacant	-	-	-	-	-	-	-	-
Puri	Stenographer	Vacant	Steno	-	-	-	-	-	-	-
Puri	Driver	P.K.Lenka	Driver	Matric		5200-20200 GP-1900	5870	24.07.07	Permanent	GEN
Puri	Driver	B.K. Barik	Driver	Matric		5200-20200 GP-1900	5870	23.3.11	Permanent	OBC
Puri	Supporting staff	B. Sethi	Peon /Watchman	Under matric		2550-55-2660-60-3200	2550	7.8.08	Contractual	SC
Puri	Supporting staff	B. Sahani	Peon /Watchman	Under matric		2550-55-2660-60-3200	2550	8.8.08	Contractual	GEN

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

Puri is one of the coastal district of Odisha having 155 km. coast line along Bay of Bengal. The geographical area of the district is 348102 ha. which lies between 19^0 20 ½ to 29^0 35 1/2 north latidude and between 34^0 28 1/2 to 36^0 25 ½ east longitude. Asia's largest brakish water lake, Chilka is situated in the south west corner of the district.Five major rivers flow through the district.Out of 11 blocks in the district, 9 blocks are covered by Mahanadi delta-II irrigation system.

Agro-climatic zone- East and south eastern coastal plain zone

Agro-Ecological Situations (AESs) of the District

Based on the soil type, rainfall, irrigation, climate and farming system Puri district is coming under one agro climatic zones and six AESs as detailed below.

Agro-climatic zone	Agro-Ecological Situation
1. East and South East Coastal Plain zone	1. Coastal Alluvial Command 2. Coastal Alluvial Non-command 3. Coastal Alluvial Saline 4. Rainfed Laterite 5. Rainfed Red and Laterite 6. Rainfed brown forest

Climate: **Sub-tropical, hot & humid**

Temperature: Maximum 39^0C (April-May) Minimum 18^0C (Dec-Jan)

Humidity: Maximum – 95% Minimum-50%

Rainfall : 1550.2mm (Normal Rainfall: 1449.1 mm)

Demographical information of district

Total Geographical area (ha)		:	348102
Total No. of Blocks		:	11
Total No. of Villages		:	1715
Total population		:	1502682
	Male	:	763389
	Female	:	739293
	Sex ratio	:	968 (Female per ,000 male)
	Literacy rate (%)	:	78.40
No. of farm families		:	149294
Small farmer		:	50579
Marginal farmer		:	80420
Big farmer		:	18295
Gross cropped area		:	3.05 lakh ha.
Cropping intensity		:	214 %
Irrigated area	Kharif	:	145.49 th.ha
	Rabi	:	95.28 th.ha

Soil : Characteristics : Deep soils developed on deltaic & Coastal alluvium, Poorly to imperfectly drained with slight to moderate erosion, moderate to severe flooding and slight to strong salinity hazards.

Inherent fertility of soil : Sandy loam to loamy soil,
Slightly acidic to neutral,
Deficient in N, Medium in P & K status
Soils away from coast are deficient in S, B, Mo, and Zn. High Fe, Mn & Cu.
Saline soils contain toxic concentration of B & Cu.

Agriculture : Contributes 25% of National income

Employment to 70% working population

Farm families – 1.5 lakh sustained with Agriculture

- Trend of area/ productivity of 3-4 major crops grown in Kharif & rabi, cropping pattern

S. No	**Farming system/enterprise**		
Rice based farming system with following cropping system		**Enterprise**	
1	Rice-rice (Irrigated)	1.	Dairy
2	Rice-Groundnut (Rainfed)	2	Fishery
3	Rice-Veg. –Veg. (Irrigated)	3	Betelvine
4	Rice – potato – Sesame / Greengram (Irrigated)	4	Coconut
5	Rice – Black gram / Sunflower (Irrigated)	5	Poultry
		6	Goatery / Sheep rearing

Area, Production & Productivity of major crops in Puri District

Sl.No	**Name of the crop**	**Area (ha)**			**Production (MT)**			**Productivity (q/ha)**	
		Kharif	**Rabi**	**Total**	**Kharif**	**Rabi**	**Total**	**Kharif**	**Rabi**
1	Paddy	144841	50355	195196	272590.76	175940.37	448531.13	18.82	34.94
2	Millets	175	189	364	96.25	103.95	200.20	5.5	5.5
3	Total food grain	145016	50544	195560	272775.10	175893.12	448668.22	18.81	34.80
3	Pulses	-	62330	62330	-	15582.5	15582.5	-	2.50
4	Oilseeds	-	15999	15999	-	30046.12	30046.12	-	18.78
5	Fibres	32	-	32	18.56	-	18.56	5.80	-
6	Vegetables	14432	13364	27796	131922.91	113981.56	245904.47	91.41	85.29
7	Spices	1396	1452	2848	707.77	650.50	1358.27	5.07	4.48
8	Sugarcane	573	590	1163	-	21953.90	21953.90	-	372.10

- **Consumption of chemical fertilizers :** 56.00 kg/ha
- **Status of livestock in brief**

Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production ('000MT)	Category	Population	Production ('000MT)
Cattle			**Poultry**		
Crossbred	85417	92 (Milk)	Hens		13 mill. Eggs
Indigenous	367575		*Desi*	140376	
Buffalo	16649		*Improved*	125698	
Sheep			Ducks		
Crossbred	307		Turkey and others		
Indigenous	74734	1775 (Meat)	**Fish**		306.95
Goats	120128		*Marine*		116.88
Pigs			*Inland*		190.07
Crossbred	4		Prawn		
Indigenous	2055		Scampi		
Rabbits	Nil		Shrimp		24447

- **Land utilization & irrigation status**

- **Total cultivated area (ha)** : 188745
- High : 21517
- Medium : 57654
- Low : 109574

a. Total paddy area (ha) : 141160

- High : Nil
- Medium : 57318
- Low : 83842

b. Total Non-paddy area : 47585 ha

c. Cultivable waste : 3322 ha

d. Water logging area : 15192 ha

e. Saline area : 19480 ha

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)
Puri	Silari	2008-09	Astarang	70 km	132	22
Puri	Sarbapada	2008-09	Nimapara	42 km	324	45
Puri	Naranpur	2009-10	Kakatpur	65 km	624	94
Puri	Dumukipur	2009-10	Pipili	10 km	300	30
Puri	Basudeipur	2010-11	Satyabadi	5 km	475	130
Puri	Birabhadrapur	To be adopted	Satyabadi	10 km	340	170
Puri	Talajanga	To be adopted	Satyabadi	12 km	570	280

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

KVK Name	THRUST AREA
Puri	1. High yielding & Hybrid rice varieties for medium and low land situation.
Puri	2. Cultivation of high yielding varieties of groundnut.
Puri	3. Cultivation of high yielding varieties of black gram and green gram.
Puri	4. Commercial cultivation of coconut, banana, papaya, betel vine and vegetables.
Puri	5. Mushroom cultivation.
Puri	6. Integrated pest and disease management.
Puri	7. Integrated fish farming and fish health management.
Puri	8. Artificial insemination of cows.
Puri	9. Health management of dairy animals and small ruminants.
Puri	10. Profitable dairy and goatery.
Puri	11. Commercial floriculture.
Puri	12. Organic farming.
Puri	13. Farm mechanization for timely operation and save high Labour cost.
Puri	14. Value addition to fruits, vegetables, milk and low cost marine fish and prawn.
Puri	15. Profitable poultry and duckery.

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

KVK Name	Problem identified	Methods of problem identification
Puri	Low yield due to old variety of Paddy	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Severe weed causes crop loss in Paddy	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield of Swarna var. due to high disease incidence	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield in Paddy due to imbalance nutrient application.	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Existing rice varieties do not fetch better return	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield of Greengram due to improper mgt. practices	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low quality composting technology	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Poor soil health	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield in Pointed gourd due to use of local variety	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield in chilli due to use of local var.	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low return from vegetable cultivation due to lack of knowledge about high value vegetable cultivation(Capsicum)	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield in cauliflower due to attack of sucking pests	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield in potato due to improper management	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield in marigold due to poor nutrient management.	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield in banana (Bantala) due to cultivation of local bantal	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield in papaya due to improper management practices	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield & profit due to high incidence of diseases in betelvine	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield in Pumpkin due to infestation of YMV	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials

KVK Name	Problem identified	Methods of problem identification
Puri	Low yield of Coconut due to high incidence of red palm weevil and rhinoceros beetle	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield of rice due to high incidence of leaf folder	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield of rice due to high incidence of BPH	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield in colocasia due to traditional management practices	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Malnutrition of family members	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Storage loss of food grain due to pest infestation	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Drudgery in weeding in Grroundnut	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Under utilisation of paddy straw and low income of the farm family.	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low milk yield of cows due to insufficient feed	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low return from local poultry birds	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield from fish pond due to poor management practices	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low income from single enterprise & under utilization of pond based resources	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low income of the farm family & under utilization of marine fish	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Group conflict, low motivation, lack of entrepreneurship & poor access to agricultural information	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Unemployment of rural youth and school drop outs	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Labour unavailability and high Labour cost delay the farming operations	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low return from brackish water moulted crab	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield of fresh water fish due to disease out break	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials

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 (yield q/ha)		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
Puri	Kharif, 2011	Low yield due to high weed infestation	Assessment	Weed management	Rice	Medium land	Assessment of Metsulfuron+Chlorimuron(Almix) for weed management in rice	5	33.4	38.2	8800	15600	Recommended to Govt. for popularization of Technology
Puri	Kharif, 2011	Crop failure due to flash flood	Assessment	Varietal evaluation	Rice	Low land	Assessment of rice variety Swarna – Sub 1	5	22.4	35.8	2600	13,200	Recommended to Govt. for popularization of Technology
Puri	Rabi , 2011-12	Low yield due to improper nutrient management	Assessment	Integrated nutrient management	Groundnut	Medium land	Assessment of integrated nutrient management in groundnut	5	20.2	27.8	21,200	32,100	Recommended to Govt. for popularization of Technology
Puri	Kharif, 2011	Low yield due to local variety	Assessment	Varietal evaluation	Turmeric	Medium	Assessment of Turmeric Var. Roma	5	-	-	-	-	Damaged by flood during month of sept, 2011
Puri	Rabi, 2011-12	Low yield due to use of local variety	Assessment	Varietal evaluation	Capsicum	Upland	Assessment of capsicum Var. California wonder	5	86.5	110.6	70,700	1,11,000	Recommened to line deptt. For horizontal spread

KVK name	Year/ season	Problem diagnose	Category of technology	Thematic Area	Crop/ enterprise	Farming Situations	Title of OFT	No. of	Results (yield q/ha)		Net Returns (Rs./ha)		Recommendations
Puri	Rabi, 2011-12	Low yield due to improper management practices	Assessment	Integrated nutrient management	Marigold	Upland	INM in marigold	5	87.5	105.4	62,400	80,630	Recommened to line deptt. For popularization of Technology
Puri	Rabi, 2011-12	Low yield due to improper management practices	Assessment	Integrated nutrient management	Bitter gourd	Upland	INM in bittergourd	5	Continuing				
Puri	Rabi, 2011-12	Low yield of rice due to high incidence of BPH	Assessment	Integrated pest management	Rice	Medium land	Assessment of Bufrofugen for control of BPH in rice	5	Continuing				
Puri	Rabi, 2011-12	Low yield of brinjal due to heavy infestation of shoot and fruit borer	Assessment	Integrated pest management	Brinjal	Upland	Assessment of Cholrantraniliprole for control of shoot & fruit borer in brinjal	5	210qt/ha	280qt/ha	85000	116000	Recommended to Govt. for effective control of brinjal fruit and shoot borer
Puri	Kharif, 2011	Low yield of rice due to heavy infestation of stem borer	Assessment	Integrated pest management	Rice	Medium land	Assessment of Indoxacarb for control of stem borer in rice	2	Crop damaged by flood	-	-	-	
Puri	Kharif, 2011	Low yield of banana due to heavy infestation of panama wilt	Assessment	Disease management	Banana	Upland	Assessment of Saaf +Streptocyline in management of panama wilt of banana	5	Continuing	-	-	-	

KVK name	Year/ season	Problem diagnose	Category of technology	Thematic Area	Crop/ enterprise	Farming Situations	Title of OFT	No. of	Results (yield q/ha)		Net Returns (Rs./ha)		Recommendations
Puri	Kharif, 2011	drudgery of farmers at the time of weeding in rice	Assessment	Drudgery reduction	Rice	Medium land	Assessment of performance of cono weeder	5	32.3	34.0			
Puri	Rabi, 2011-12	difficult to dehusk the coconuts	Assessment	Farm machinery	Coconut	Medium land	Assessment of performance of coconut dehusker	5	Continuing				
Puri	Kharif, 2011-12	wastage of feed due to sinking in fish pond	Assessment	Nutrition management	Fish	pond based	Assessment of FCR of floating feed	3	34.0	40.1	144760	190850	Recommended to line deptt. For popularization of Technology
Puri	Kharif, 2011-12	low production in IMC culture due to slow growth rate of rohu	Assessment	Production and management	Fish	pond based	Assessment of growth performance of Jayanti Rohu in fish pond	3	34	39.37	155250	200850	Recommended to line deptt. For popularization of Technology
Puri	Kharif, 2011-12	mortality of spawn due to improper maintenance of water level	Assessment	Production and management	Fish	pond based	Assessment of survival of fry in nursery pond	3	12.05 lakh/ha	16.35 lakh/ha	35,500	76,500	Recommended to line deptt. For popularization of Technology among skill farmers
Puri	Rabi, 2011-12	low price of water crab	Assessment	Production and management	Crab	pond based	Assessment of crab fattening	3		23.75	-	2.36,650	Recommended to line deptt. For popularization of Technology

KVK name	Year/ season	Problem diagnose	Category of technology	Thematic Area	Crop/ enterprise	Farming Situations	Title of OFT	No. of	Results (yield q/ha)		Net Returns (Rs./ha)		Recommend ations
Puri	Kharif, 2011	drudgery of farm women during bhindi plucking	Assessment	Drudgery reduction	Okra	medium land	Assessment of performance of bhindi plucker	5	Continuing				

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)
Puri	Assessment of Metsulfuron+ Chlorimuron(Almix) for weed management in rice	Yield(q/ha)	38.2	33.4	24600	22,600	-	33,400	38200		8800	15,600	-	1.35	1.69	-
Puri	Assessment of rice variety Swarna – Sub 1	Yield(q/ha)	35.8	22.4	19,800	22600	-	22400	35,800	-	2600	13,200	-	1.13	1.58	-
Puri	Assessment of integrated nutrient management in groundnut	Yield(q/ha)	**20.2**	**27.8**	43,265	41,153	-	64,465	73,253	-	**21,200**	**32,100**	-	**1.49**	**1.78**	
Puri	Assessment of Turmeric Var. Roma	Yield(q/ha)	Damaged by flood													
Puri	Assessment of capsicum Var. California wonder	Yield(q/ha)	110.6	86.5	42,200	54,840	-	1,12,900	1,65,840	-	70,700	1,11,000	-	2.67	3.02	
Puri	INM in marigold	Yield(q/ha)	105.4	87.5	44,570	44790	-	1,06,970	1,25,420	-	62,400	80,630	-	2.4	2.8	-
Puri	INM in bittergourd	Yield(q/ha)	continuing													
Puri	Assessment of Buprofezin for management of BPH in Rice	Yield qt/ha,No of insects/hill	28	9	Continuing											
Puri	Assessment of Cholrantraniliprole for control of fruit & shoot borer in brinjal	Yield qt/ha,No of damaged fruit/plant	3.2	1.8	62000	80000	-	147000	196000	-	85000	116000	-	2.37	2.45	-

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)
Puri	Assessment of Indoxacarb for control of stem borer in rice	Yield qt/ha ,No of dead heart/sq mt	Crop damaged by flood													
Puri	Assessment of Saaf + Streptocyclin for management of Panama wilt in Banana	Yield No of bunch	continuing													
Puri	Assessment of performance of cono weeder	Area covered, m2/hr	120	55												
Puri	Assessment of performance of coconut dehusker	**(nos./ hour)**	60	20												
Puri	Assessment of FCR of floating feed	FCR	1.36	2.1	144240	150000	-	289000	340850	-	144760	190850	-	2.27	2.00	-
Puri	Assessment of growth performance of Jayanti Rohu in fish pond	Avg. body wt. (g) of jayanti rohu	720	540	133750	133750	-	289000	334600	-	155250	200850	-	2.5	2.16	
Puri	Assessment of fry production in nursery pond	Survivial (%)	32.7	24.1	85280	87660	-	120500	163600	-	35220	75900	-	1.41	1.86	
Puri	Assessment of crab fattening	**Avg. wt., g**	580	-	-	584375	-	-	831250	-	-	246875	-	-	1.4	-
Puri	Assessment of performance of bhindi plucker	**(Kg/ hour)**	6	3												

2.3 **Feedback from KVK to Research System :** Nil

Name of KVK	Feedback

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
Puri	Rice	Integrated nutrient management	Balanced soil test based fertilizer+Azospirillum10 kg/ha+PSM 5kg'ha	Training, Farmers fair, Extension literature, Radio, Field day, Kissan Mela	8	120	150
Puri	Azolla	Production of organic input	High biomass production with high N fixation, can grow in varied environments, have multiple uses	Training ,Farmers fair, Extension literature, Radio, Field day, Kissan Mela	5	80	100 units
Puri	Vermicompost	Vermicompost production	Composting using earthworms	Farmers fair, NGO, Extension literature, Radio, TV Show, CD Show	10	50	200 units
Puri	Pointed gourd	Vegetable cultivation	HYV Swarna Aloukik	Farmers fair, NGO, Extension literature, Radio, TV Show, CD Show	4	92	12
Puri	Papaya	Vegetable culture	Full package of practices (seed treatment with Bavistin 2g/kg of seed ,Fertilizer application –Two baskets of FYM ,90gm N,40 gm p205 ,and 180gm k20 per plant, Need based plant protection measures)	Farmers fair, NGO, Extension literature, Radio, TV Show, CD Show	12	20	5
Puri	Betelvine	IDM	IDM by use of bio-pesticide(Neem cake 750 kg/ha, Trichoderma viridae 5 kg/ha, Bordeaux mixture 1% soil drenching,& 0.5% foliar spray	Exposure visit, diagnostic survey, radio talk, film show	10	75	11
Puri	Coconut	IPM	Cultural, Mechanical & Chemical control	Farmers fair, exposure visit, radio talk, video show, NGO extension literature	15	200	40
Puri	Greengram	ICM	Seed K-851 + seed treatment with Bavistin + Seed inoculation with Rhizobium + NPK 20:40:50 kg/ha(Soil test based) + Triazophos 0.02%, Anth 0.02% alternatively	Farmers fair, exposure visit, radio talk, video show, NGO extension literatures	10	128	55
Puri	Poultry	Rearing of Banaraja poultry	Rearing of banaraja with proper nutrient management and vaccination	Farmers fair, exposure visit, radio talk, video show, NGO extension literature	5	85	14

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
Puri	Duckery	Rearing of duck var. Khaki Campbell	Rearing of duckling with full package of practices	Farmers fair, exposure visit, radio talk, video show, NGO extension literatures	4	63	11
Puri	Fishery	Production and management	Stocking of IMC @10000/ha feeding @2-5% body wt.	Farmers fair, NGO, Extension literature, Radio, TV Show, CD Show	12	135	34
Puri	Brackish water prawn	Production and management	Stocking 50,000 PL/ha of water area, feeding commercial pellet feed with 10-3% body wt thrice a day	Farmers fair, NGO, Extension literature, Radio, TV Show, CD Show	7	46	10
Puri	Axial flow thresher	Farm mechanisation	Threshing capacity of tractor drawn Axial flow thresher	Farmers fair, exposure visit, radio talk, video show, NGO extension literatures	4	45	-
Puri	Vertical conveyor reaper	Farm mechanisation	Harvesting capacity of Vertical conveyor reaper	Farmers fair, NGO, Extension literature, Radio, TV Show, CD Show	3	25	-
Puri	Nutritional gardening	Household food security	Use of HYV fruits and vegetables in nutritional gardening	Farmers fair, NGO, Extension literature, Radio, TV Show, CD Show	5	58	10

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/ Technology/ Entreprizes	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Puri	Varietal introduction	Rice	Kharif, 2011	HYV Ranidhan with recommended package of practices	2.0	Ranidhan	51	42	21.4	-	-	03	03	06

KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/ Technology/ Entreprizes	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Puri	Weed management	Groundnut	Rabi, 2011-12	Pre-emergence application of Oxflourfen @ 250 ml/ha	1.0	Devi	21.9	18.6	17.7	-	-	05	-	05
Puri	Vermicompost production	Vermicompost	Kharif, 2011-12	Vermicomposting using *Eisenia foetida*	10unit	*Eisenia foetida*	41kg/m^2/cycle for 3 month	-	-	-	-	07	03	10
Puri	Production of organic inputs	Azolla	Kharif, 2011	Azolla production using *Azolla pinnata*	10 unit	*Azolla pinnata*	60 kg/month	-	-	01	-	06	03	10
Puri	ICM	Groundnut	Rabi,2011-12	Seed Devi+seed treatment with Bavistin@3 gm/kg of seed inoculation with Rhizobium+Gypsum 250kg/ha+soil application of Chloropyriphus 25 kg/ha+NPK@20:30:40 kg/ha(soil test based)+need based pesticides application.	10	Devi	26.3	18.4	42.9	-	-	-	30	30
Puri	ICM	Greengram	Rabi,2011-12	Seed PDM-139+seed treatment with Bavistin@3 gm/kg of seed inoculation with Rhizobium@20 gm/kg of seed+ NPK@25:30:20 kg/ha(soil test based)+ZnSO4 @15 kg/ha as based + need based pesticides application	10	PDM-139	5.1	3.8	34.21	5	-	17	8	30
Puri	Varietal evaluation	Pointedgourd	Rabi,2010-11	var. Swarna Aloukik with FYM application 225q/ha,NPK@90:60:60 kg/ha	.08	Swarna Aloukik	256.2	185.4	38.1	-	-	03	01	4

KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/ Technology/ Entreprizes	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Puri	Varietal evaluation	Tomato	Rabi,2011-12	Hybrid Tanuja along with NPK @ 125:80:110 Kg/ha ,FYM @10ton/ha, Neemoil cake @2.5q/ha	0.4	Hybrid Tanuja	280.8	220.5	27.3	-	-	05	-	5
Puri	Varietal evaluation	TC Banana	Kharif 2011	TC banana, pit treatment with furadon 10g, Bavistin 10g , Application of 100kg lime/acre fertilizer application based on STV, spacing 2.5mX2.5m , Need based plant protection measures	0.12	Bantala	Continuing			-	-	02	-	2
Puri	INM	Potato	Rabi,2011-12	Seed treatment with Azotobacter 1kg/20 lit of water,neem oil cake @2.5q/ha,NPK @180:80:110kg/ha.10kg azotobacter culture+1.25-2.5 qdry FYM/ha after 20days of planting	o.4	Kufri Jyoti	203.6	170.4	19.4	-	-	05	-	5
Puri	Varietal evaluation	Potato	Rabi,2011-12	Kufri Surya with NPK@180:80:110kg/ha		Kufri Surya	198.4	170.4	16.4	-	-	02	-	2
Puri	INM	Papaya	Rabi,2011-12	Fertilizer application – NPK@225-100-450kg/ha, Steramil 625kg/ha, 250kg Neem oil cake/ha ,25qFYM/ha , Need based plant protection measures)	0.4	CO2	Continuing			-	-	05	-	5

KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/ Technology/ Entreprizes	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Puri	IPM	Rice	Kharif 2011	Summer ploughing + Release of Trichocard 6 times @ 50,000/ha at 10 days interval + installation of pheromone traps @ 20/ha + one spray of Cartap hydrochloride @ 0.02%	2.0	Swarna	49.34	40	22.5	-	-	05	05	10
Puri	IDM	Rice	Kharif, 2011	Summer polughing+ seed treatment with Bavistin @ 2gm/ kg of seed + Spraying of Hexaconazole @ 1.25 ml/ltire	2.0	Swarna	47.12	34.37	38.23				05	05
Puri	IPM	Chilli	Rabi, 2011-12	Use of Thiomethoxam @ 3gm/10 l of water at 10 days interval	0.4	Utkal Rashmi	80	62	29		01		04	05
Puri	ICM	Blackgram	Rabi, 2011-12	HYV PU-31 with NPK@20-40-0kg/ha, 5 MT FYM/ha , Need based plant protection measure	4.4	PU-31	4.4	2.8	57.14	-	-	19	-	19
Puri	Farm mechanisation	Axial flow thresher	Kharif, 2011	Threshing capacity	-	Tractor operated axial flow thresher	8.2 q/hr	0.15q/hr	5367			05	-	05
Puri	Production and management	Fishery	Kharif, 2010-11	Stocking Catla:rohu: mrigal: SC:GC:CC at ratio 2:2:2:1.5:1.5:1 @ 10,000/ha with feeding rice bran: GNOC 1:1 @2-5% body weight	1.2 ha	Composite fish culture (Catla, rohu, mrigal, SC, GC, CC)	33.5	18.0	86	-	-	04	-	04

KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/ Technology/ Entreprizes	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Puri	Production and management	Fishery	Kharif, 2011-12	Stocking Catla:rohu: mrigal:SC:GC:CC at ratio 2:2:2:1.5:1.5:1 @ 10,000/ha with feeding rice bran: GNOC 1:1 @2-5% body weight	0.92	Composite fish culture (Catla, rohu, mrigal, SC, GC, CC)	37.20	24	55	-	-	03	-	03
Puri	Production and management	IMC, freshwater prawn	Kharif, 2010-11	Stocking Catla, rohu 3000 no and *M. rosenbergii* juvenile 10000 no/ha with proper management practices	0.8	*M. rosenbergii*, Catla, rohu	27(Fish) + 338kg (Prawn)	30.2	0.59	-	-	03	-	03
Puri	Production and management	IMC	Kharif, 2010-11	Application of CIFAX @1lt./ha-m water body during winter		IMC	Continuing			1	-	3	-	4
Puri	Production and management	Brackish water prawn	Kharif, 2011-12	bleaching powder @ 350kg/ha, stocking Post larvae-25 @ 80,000/ha, Supplementary feedings with pellet-feeds @ 4-5% body weight, with regular water quality monitoring		(*P. monodon*)	31.9	21.59	47.7	01		02	-	03
Puri	Drudgery reduction	Sunflower thresher plate	Rabi, 2011-12	Threshing by Sunflower thresher plate	5 no	Threshing capacity (kg/hr/worker	16.5	5.7	189	-	-	-	05	05
Puri	rearing of Poultry bird	Poultry	Kharif, 2011	Raering of poultry banaraja with proper management practices	10 no	Banaraja	131 eggs/yr, M wt-3.5kg, F wt-2.8 kg	58 eggs/yr, M wt-1.5kg, F wt-1.0 kg	125.8% 133%, 180%	-	-	10	-	10
Puri	Rearing of poultry birds	Duck	Rabi, 2011-12	Duckery @ 300 nos/ha in fish ponds	3 no	*Khaki campbell*	91 eggs/yr, M wt-1.6 kg, F wt-1.0 kg	-	-	-	-	03	-	03

KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/ Technology/ Entreprizes	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Puri	House hold food security	Seasonal vegetables,	All season,2011-12	Proper planning, layout & crop rotation year round, use of high yielding vegetable seeds and seedlings	10 no	HYV	Continuing			-	-	10	-	10

3.3. Economic 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
Puri	Rice	HYV Ranidhan with recommended package of practices	Yield (q/ha)	51	42	29,000	28,610	51,330	49,210	22,330	20,600	1.77	1.72
Puri	Groundnut	Pre-emergence application of Oxflourfen @ 250 ml/ha	Yield (q/ha)	21.9	18.6	17,970	18,080	61,105	52,425	43,135	34,345	3.4	2.9
Puri	Vermi-compost	Vermicomposting using *Eisenia foetida*	Compost production(kg/m^3/cycle of 3months)	41kg/ m^3/cycle	-	1900	-	5300/yr	-	3400/yr	-	2.8	
Puri	Azolla	Azolla production using *Azolla pinnata*	Azolla production(kg/month)	18kg/ month	-	400	-	1080/month	-	680/month	-	2.7	

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
	Groundnut	Seed Devi+seed treatment with Bavistin@3 gm/kg of seed inoculation with Rhizobium+ Gypsum 250kg/ha+soil application of Chloropyriphus 25 kg/ha+NPK@20:30:40 kg/ha(soil test based)+need based pesticides application.	Plant population/m^2	34	30	30548	25723	64151	45530	33603	19807	2.1	1.77
	Greengram	Seed PDM-139+seed treatment with Bavistin@3 gm/kg of seed inoculation with Rhizobium@ 20 gm/kg of seed+ NPK@25:30:20 kg/ha(soil test based)+ZnSO4 @15 kg/ha as based + need based pesticides application	No of pots per plant	12	8	17380	12670	25875	20400	8495	7730	2.04	1.17
Puri	Pointedgourd	var. Swarna Aloukik with FYM application 225q/ha,NPK@90:60:60 kg/ha	Yield (q/ha)	256.2	185.4	87,800	64,520	3,07,310	1,87,120	2,19,510	1,22,600	3.5	2.9

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
Puri	TC Banana	TC banana, pit treatment with furadon 10g, Bavistin 10g , Application of 100kg lime/acre fertilizer application based on STV, spacing 2.5mX2.5m , Need based plant protection measures	Yield (q/ha)	Cont.									
Puri	Tomato	Hybrid Tanuja along with NPK @ 125:80:110 Kg/ha ,FYM @10ton/ha ,Neemoil cake @2.5q/ha	Yield(q/ha)	280.8	220.5	54,410	48,630	1,40,400	1,10,250	85,990	61,620	2.58	2.2
Puri	Potato	Seed treatment with Azotobacter 1kg/20 lit of water,neem oil cake @2.5q/ha,NPK@ 180:80:110kg/ha.10kg azotobacter culture+1.25-2.5 qdry FYM/ha after 20days of planting	Yield(q/ha)	203.6	170.4	57,270	48,600	1,22,160	1,02,240	64,890	53,640	2.13	2.1
Puri	Potato	Kufri Surya with NPK@180:80:110kg/ha	Yield(q/ha)	198.4	170.4	57,270	48,600	1,38,880	1,02,240	81,610	53,640	2.4	2.1
Puri	Papaya	Fertilizer application – NPK@225-100-450kg/ha, Steramil 625kg/ha, 250kg Neem oil cake/ha ,25qFYM/ha , Need based plant protection measures)	Yield(q/ha)	Cont.									

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
Puri	Rice	Summer ploughing + Release of Trichocard 6 times @ 50,000/ha at 10 days interval + installation of pheromone traps @ 20/ha + one spray of Cartap hydrochloride @ 0.02%	No of dead heart/m^2	4	6	25,000	23,000	49,340	40,000	24,340	17,000	1.97:1	1.74:1
Puri	Rice	Summer polughing+ seed treatment with Bavistin @ 2gm/ kg of seed + Spraying of Hexaconazole @ 1.25 ml/ltire	Disease incidence/m^2	6	9	25,000	22,000	47,120	34,370	22120	12370	1.88:1	1.56:1
Puri	Chilli	Use of Thiomethoxam @ 3gm/10 l of water at 10 days interval	Disease incidence in %	12	20	1,30,000	1,07,000	3,20,000	2,48,000	1,90,000	1,41,000	2.46:1	2.31:1
Puri	Black gram	HYV PU-31 with NPK@20-40-0kg/ha, 5 MT FYM/ha , Need based plant protection measure	No of pot per plant	23	19	10155	8700	17600	11200	7445	2500	1.73	1.28
			No of seed per pod	4.9	4.1								
			Pod length (cm)	4.0	3.7								
Puri	Axial flow thresher	Threshing capacity	Threshing capacity	8.2q/hr	0.15q/hr	22815	25417	41500	41500	18685	16083	1.82	1.63
Puri	Fishery	Stocking Catla:rohu: mrigal:SC:GC:CC at ratio 2:2:2:1.5:1.5:1 @ 10,000/ha with feeding rice bran: GNOC 1:1 @2-5% body weight	Avg body wt. (g)	620	360	91,750	55,750	2,68,000	1,44,000	1,76,250	88,250	2.92	2.58

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
Puri	Fishery	Stocking Catla:rohu: mrigal:SC:GC:CC at ratio 2:2:2:1.5:1.5:1 @ 10,000/ha with feeding rice bran: GNOC 1:1 @2-5% body weight	Avg body wt. (g)	650	410	132500	93750	316200	204000	183700	110250	2.38	2.17
Puri	Fishery	Stocking Catla, rohu 3000 no and *M. rosenbergii* juvenile 10000 no/ha with proper management practices	Avg body wt. (g)	730 (Fish), 55 (prawn)	460	135000	115000	353660	256700	218660	141700	2.62	2.21
Puri	Fishery	Application of CIFAX @1lt./ha-m water body during winter	Continuing										
Puri	Brackish water prawn	bleaching powder @ 350kg/ha, stocking Post larvae-25 @ 80,000/ha, Supplementary feedings with pellet-feeds @ 4-5% body weight, with regular water quality monitoring	Avg. body wt (g)	42.5	32.8	6,67,500	5,10,000	11,48,500	7,12,500	4,35,000	2,62,500	1.72	1.41
Puri	Sunflower	Threshing by Sunflower thresher plate	Threshing capacity (kg/hr/worker)	16.5	5.7								
Puri	Poultry	Rearing of poultry banaraja with proper management practices	No of eggs/yr, Male body wt (kg), Female body wt (kg)	131, 3.5, 2.8	58, 1.5 1.0	55/bird	45/bird	160/bird	125/bird	100/bird	80/bird	2.9	2.77
Puri	Duck	Duckery @ 300 nos/ha in fish ponds	No of eggs/yr, Male body wt (kg), Female body wt (kg)	91, 1.6, 1.0	-	55/bird	-	125/bird	-	70/bird	-	2.27	-
Puri	Seasonal vegetables,	Proper planning, layout & crop rotation year round, use of high yielding vegetable seeds and seedlings	Continuing										

3.4. Feedback of the Farmers

Name of KVK	Feedback
Puri	The New variety Swarna Sub-1 sustained complete submergence for 09 days (i.e. from 13-09-2011 to 22-09-2011
Puri	The effect of Almix although slow but it is cost effective
Puri	Capsicum var California wonder can substitute low valued winter vegetable under irrigated medium land situationS
Puri	INM in marigold increased the yield by increasing no .of flowers/plant , total flower yield and net return
Puri	The chemical Cholrantraniliprole is more costly & not easily available in local market for control of Brinjal fruit and shoot borer
Puri	Cono weeder is good for control of weed and is easy to operate
Puri	Farmers have adopted coconut dehusker technology as labour saving device and drudgery reduction
Puri	Due to manual plucking, allergic symptoms are developed which needs medical intervention, But by use of bhind plucker these allergies does not exist.
Puri	The newly introduced variety Ranidhan is having better flood tolerance capacity compared to Swarna
Puri	Weed management through chemical Oxifluorfen is easier and economical. But it should be available locally.
Puri	Farmer's preference for bold seeded red kernel Groundnut variety Devi with high oil content. Farmers convinced about the effect of seed inoculation, gypsum and soil test based fertilizer application
Puri	Farmers convinced about the effect of seed inoculation, gypsum and soil test based fertilizer application in cultivation of high yielding greengram var. PDM139
Puri	Tomato Hybrid Tanuja is a high yielding variety ,Fruits have good keeping quality
Puri	Pointedgourd var.Swarna Aloukik is accepted by the farmers for its good quality fruits and high yield
Puri	Potato var.Kufri Surya has fetched good market price due to early harvest,good tuber quality
Puri	Bio-agents & pheromone traps are not easily available in local market
Puri	Summer polughing+ seed treatment with Bavistin @ 2gm/ kg of seed + Spraying of Hexaconazole @ 1.25 ml/ltire is very much effectivfor management of sheath blight in rice
Puri	Use of Thiomethoxam @ 3gm/10 l of water at 10 days interval can effectively control thrips in Chilli

Name of KVK	Feedback
Puri	Positively reacted to the composite pisciculture over the conventional one
Puri	More production, higher growth rate than conventional method of pisciculture
Puri	Culture Freshwater prawn with IMC is accepted by the farmers as freshwater prawn gives more return than fish culture.
Puri	Scientific method of brackish water prawn was 47.7% higher yield than traditional method of cultivation
Puri	Groundnut stripper is easy for operation in sitting position, time and labour saving
Puri	Vermicompost is a good quality compost with high market value. It is a source of income for rural youths.
Puri	Azolla is a good quality green manure in rice, very good animal feed rich in protein which can substitute concentrate.
Puri	Threshing capacity of axial flow thresher is 5367% higher than traditional method which is saving labour and cost of threshing
Puri	Harvesting capacity of vertical conveyor reaper is also 1900% higher than traditional harvesting by sickle
Puri	Survival rate of fingerlings in demonstration practice was 65% more than farmer's practice
Puri	Scientific method of brackishwater prawn was 70% higher yield than traditional method of cultivation

3.5. Training and Extension activities under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Puri	1.Ranidhan- 2.Oxifluorfen for weed control in Groundnut	Field days	1	54	Rice var.Ranidhan.is accepted by the farmers
		Farmers Training	2	50	
		Media coverage	-		
		Training for extension functionaries	-		
Puri	2. INM in potato var. Kufri Jyoti 3.pointedgourd var.Swarna Aloukik 4.Tomato hybrid Tanuja	Field days	3	116	INM technology in potato, pointedgourd var.Swarna Aloukik, Tomato hybrid Tanuja Are accepted by the farmers
		Farmers Training	4	100	
		Media coverage	2	Mass	
		Training for extension functionaries	-	-	
Puri	Fishery (Polyculture of freshwater prawn with IMC)	Field days	1	29	Positively reacted to the Polyculture over the conventional one as return from freshwater prawn is more
		Farmers Training	3	75	
		Media coverage	2	Mass	

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Puri	Blackgram	Field days	1	32	Positively reacted to the composite pisciculture over the conventional one
		Farmers Training	1	25	
		Media coverage	1	Mass	
		Training for extension functionaries	-	-	

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
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.7.4.2011, Balapur	20
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.20.6.2012, Basudeipur	25
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.3.6.2011, Dumukipur	25
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.17.6.2011, Sarbapada	20
Puri	RY	PRA, Diagnostic field visit, Group discussion	Dt.30.7.2011, Konark	20
Puri	F/FW	Group discussion	Dt.20.8.2011, Saraswatipurl	25
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.5.9.2011, Parahat	25
Puri	IS	Group discussion	Dt.7.9.2011, Hort. Office, Puri	25
Puri	F/FW	Diagnostic field visit, Group discussion	Dt.21.9.2011, Barakera	25
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.14.10.2011, Munida	25
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.8.11.2011, Bagalpur	25
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.22.11.2011, Talajanga	25
Puri	RY	PRA, Diagnostic field visit, Group discussion	Dt.15.12.2011, Balarampur	25
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.11.1.2012, Mangalpur	25
Puri	IS	PRA, Diagnostic field visit, Group discussion	Dt. 20.1.2012, DDA, Puri	25
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	21.2.12, Panibhandar	25
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	7.3.12, Panchukera	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	Cate-gory	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	14	15
Puri	FW	ONC	CRP	Vermiculture production	1	1	3	0	4	4	0	0	14	0
Puri	FW	ONC	CRP	Vermicompost production	1	1	4	0	1	2	0	0	18	0
Puri	FW	ONC	HOV	Scientific method of Watermelon and Cucumber cultivation	1	1	4	0	5	1	0	0	15	0
Puri	FW	ONC	PLP	Bio-control of pest and diseasesl	1	1	0	0	2	0	1	0	22	0
Puri	FW	ONC	AEG	Use of Plastic in farming practices	1	1	0	0	0	0	0	0	25	0
Puri	FW	ONC	FIS	Fish cum horticulture farming	1	2	-	-	-	-	-	-	25	-
Puri	FW	ONC	SFM	Management for increasing fertilizer use efficiency in rabi rice	1	1	23	-	2	-	-	-	-	-
Puri	RY	ONC	FIS	Magur culture in backyard pond	1	2	2	-	2	2	-	-	19	-
Puri	IS	ONC	CBD	Capacity building in ICT application.	1	2	12		6	4			2	1
Puri	IS	ONC	EXP	Production enhancement of Paddy-pulse cropping system	1	1	0	0	1	2	0	0	5	4
Puri	FW	OFC	CRP	SRI method of Rice cultivation	1	1	3	0	3	0	0	0	14	0
Puri	FW	OFC	CRP	Production of organic inputs	1	1	3	0	5	0	0	0	17	0
Puri	FW	OFC	CRP	Paddy seed production	1	1	3	0	0	0	0	0	27	0
Puri	FW	OFC	CRP	Fodder crop production	1	1	0	0	2	0	0	0	28	0
Puri	FW	OFC	CRP	Weed management in Paddy-Pulse cropping system	1	2	0	0	0	0	0	0	25	0
Puri	FW	OFC	CRP	Integrated crop management in Groundnut	1	2	0	0	1	0	0	0	24	0
Puri	FW	OFC	CRP	Integrated crop management in Groundnut	1	1	8	0	0	0	0	0	17	0
Puri	FW	OFC	CRP	Vermicompost production	1	1	5	0	1	0	0	0	19	0
Puri	FW	OFC	HOT	Production and management technique of Turmeric	1	1	0	0	1	0	0	0	24	0

Name of KVK	Cate-gory	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	14	15
Puri	FW	OFC	HOV	Scientific method of Brinjal cultivation	1	1	0	4	0	7	0	0	0	9
Puri	FW	OFC	HOF	Scientific method of **Banana** cultivation	1	2	0	0	3	0	0	0	17	0
Puri	FW	OFC	HOS	Scientific method of Chilli cultivation	1	1	1	0	0	0	0	0	24	0
Puri	FW	OFC	HOV	Scientific method of Winter vegetable seedling raising	2	4	10	0	0	0	0	0	40	0
Puri	FW	OFC	HOV	Scientific method of Potato cultivation	1	1	0	0	1	0	0	0	24	0
Puri	FW	OFC	HOV	Scientific method of seedling raising and management (vegetables)	1	1	11	0	0	0	0	0	14	0
Puri	FW	OFC	PLP	IPM in Paddy	1	1	0	0	2	0	0	0	12	11
Puri	FW	OFC	PLP	IPM in Brinjal	1	2	4	0	0	0	0	0	21	0
Puri	FW	OFC	PLP	IPM in Paddy	1	2	0	0	0	0	0	0	25	0
Puri	FW	OFC	PLP	Bio-control of pest and diseases	1	1	2	0	6	0	0	0	17	0
Puri	FW	OFC	PLP	Wilt management in solanaceous vagetables	1	1	0	0	0	0	0	0	25	0
Puri	FW	OFC	PLP	IPM in Paddy	1	1	3	0	1	0	0	0	21	0
Puri	FW	OFC	PLP	Wilt management in solanaceous vagetables	1	1	1	0	0	0	0	0	24	0
Puri	FW	OFC	PLP	IPM in Black gram	1	1	0	0	0	0	0	0	25	0
Puri	FW	OFC	AEG	Maintenance of power operated paddy Thresher & winnower	1	1	0	0	0	0	0	0	25	0
Puri	FW	OFC	AEG	Use of mulching material for turmeric cultivation	1	2	0	0	3	0	0	0	7	15
Puri	FW	OFC	AEG	Repair and maintenance of farm machinery & implements	1	2	3	0	6	0	0	0	16	0
Puri	FW	OFC	AEG	Post Harvest Technology	1	2	0	0	0	0	0	0	25	0
Puri	FW	OFC	CBD	WTO and IPR issues.	1	1	-	-	-	-	-	-	25	-
Puri	FW	OFC	CBD	Leadership development.	1	2	25	-	-	-	-	-	-	-
Puri	FW	OFC	CBD	Group dynamics in village level organization formation of the members.	1	1	-	-	-	-	-	-	25	-
Puri	FW	OFC	EXP	Low cost nutrient efficient and designing.	1	2	-	-	-	1	-	-	24	-
Puri	FW	OFC	CBD	Entrepreneurial development of farmers/youth.	1	2	-	-	9	-	-	-	16	-

Name of KVK	Cate-gory	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	14	15
Puri	FW	OFC	ICM	Integrated pest management in groundnut.	1	1	-	-	-	-	-	-	25	-
Puri	FW	OFC	ICM	Integrated pest management in greengram.	1	1	5	-	4	-	-	-	16	-
Puri	FW	OFC	FIS	Carp brood stock management	1	1	1	-	9	1	-	-	5	4
Puri	FW	OFC	FIS	Polyculture of freshwater prawn with IMC	1	1	1	-	2	-	-	-	22	-
Puri	FW	OFC	FIS	Prestocking pond management	1	1	-	-	2	-	-	-	23	-
Puri	FW	OFC	FIS	Composite fish culture	2	2	-	-	2	-	-	-	48	-
Puri	FW	OFC	FIS	Paddy cum fish culture	1	1	3	-	-	-	-	-	22	-
Puri	FW	OFC	FIS	Feed preparation and management in composite fish culture	1	2	-	-	2	-	-	-	23	-
Puri	FW	OFC	FIS	Better management practice in shrimp culture	1	1	-	-	8	11	1	-	4	1
Puri	FW	OFC	FIS	Fish cum poultry farming	1	2	1	-	1	-	-	-	23	-
Puri	FW	OFC	FIS	Preparation of prawn pickle	1	1	-	-	-	2	-	-	-	23
Puri	FW	OFC	SFM	Technique for soil sample collection	2	2	49	-	1	-	-	-	-	-
Puri	FW	OFC	SFM	Integrated nutrient management in rice	2	2	49	-	-	-	-	-	-	-
Puri	FW	OFC	SFM	Tillage operation for resources moisture conservation in rabi field crops	1	1	25	-	-	-	-	-	-	-
Puri	FW	OFC	SFM	Soil test campaign	2	2	50	-	-	-	-	-	-	-
Puri	FW	OFC	SFM	Fertilizer recommendation on basis of soil test value	1	1	24	-	-	-	-	-	-	-
Puri	FW	OFC	LPM	Disease management for enhancing milk production	1	2	5	-	-	-	-	-	20	-
Puri	FW	OFC	LPM	Animal feed management for enhancing milk production	1	2	2	-	3	-	-	-	20	-
Puri	FW	OFC	LPM	Feeding and disease management in poultry	1	2	7	-	2	-	-	-	16	-
Puri	FW	OFC	WOE	Use of improved sickle and hand winnower for drudgery reduction	1	1	-	1	-	11	-	-	-	13
Puri	FW	OFC	WOE	Preparation of badi, papad, pickle	1	1	-	-	-	1	-	-	-	24
Puri	FW	OFC	WOE	Household food security by kitchen gardening	1	1	-	-	-	2	-	-	-	23
Puri	FW	OFC	WOE	Income generation: mushroom cultivation	1	2	-	-	-	3	-	-	-	22

Name of KVK	Cate-gory	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	14	15
Puri	FW	OFC	WOE	Storage loss and minimization of nutrients technique	1	1	-	3	-	-	-	-	-	22
Puri	RY	OFC	CRP	Production of organic inputs	1	1	1	0	0	0	0	0	24	0
Puri	RY	OFC	CRP	Vermiculture	1	1	8	0	1	0	0	0	16	0
Puri	RY	OFC	HOV	Nursery raising technique for Kharif Vegetble	1	1	0	1	1	3	0	0	3	12
Puri	RY	OFC	HOF	Scientific method of **Banana, Papaya** cultivation	1	1	0	2	0	6	0	0	0	12
Puri	RY	OFC	HOV	Quality seedling production technique for Winter vegetable	1	1	3	0	2	1	0	0	10	4
Puri	RY	OFC	AEG	Maintenance of Spinkler irrigation System	1	2	3	0	3	0	0	0	19	0
Puri	RY	OFC	AEG	Post Harvest Storage Technology to store paddy seeds	1	1	1	0	6	0	0	0	18	0
Puri	RY	OFC	WOE	Small scale processing and value addition to milk	1	2	-	1	-	2	-	-	-	22
Puri	RY	OFC	WOE	Mushroom production	1	1	-	-	-	4	-	-	-	21
Puri	IS	OFC	EXP	Scientific method of Rose and Marigoldcultivation	1	1	6	1	1	0	0	0	14	3
Puri	IS	OFC	EXP	Protected cultivation Technology	1	1	5	0	1	2	0	0	13	4
Puri	IS	OFC	PLP	Disease & Pest management in Ornamentalas	1	1	3	1	0	0	0	0	18	3
Puri	IS	OFC	FIS	Fish pickle and prawn pickle preparation	1	1	5	1	-	2	1	-	13	3

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
Puri	Breeding and culture of freshwater ornamental fishes	Enterprise	Ornamental fisheries	05	2	1	-	-	9	-
Puri	preparation of Value added products of milk	Enterprise	processing and value addition	05	-	20	-	-	-	5
Puri	Production of vermin compost	Enterprise	organic farming	05	-	2	-	-	8	-
Puri	Grafting & layering techniques	Crop	Quality planting material production	05	-	-	-	-	10	-
Puri	Commercial production of marigold and tube rose	Crop	Profitable floriculture	05	-	4	-	-	6	-
Puri	Fry and fingerlings rearing	Enterprise	Fry and Fingerling production	05	-	2	-	-	8	-

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

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	

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)	Dura-tion (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		
Puri	Scaling-up of Water Productivity in Agriculture for Livelihood	CRP	Water management	FW	7	28	38	2	6	4	-	-	AICRP on Water Management, Chiplima	66,500

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

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.)
							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	
Puri	Management for increasing fertilizer use efficiency in rabi rice(FW)	50	45%	75%	42	51	11,000	18,000	. Area expanded (ha) – 24 2. No of farmers adopted- 24.change in knowledge, production & Income-66.6%21.4%,63.6%
Puri	SRI method of Rice cultivation(FW)	50	32	64	35	60	12,000	20,000	. Area expanded (ha) – 150 2. No of farmers adopted- 28.change in knowledge, production & Income100%, 71.4%, 66.6%

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	
Puri	Weed management in Groundnut(FW)	50	26	52	18.6	21.9	34,345	43,135	. Area expanded (ha) – 56 2. No of farmers adopted- 40.change in knowledge, production & Income-100%,17.7%,25.5%
Puri	Production of organic inputs(RY	50	34	75	-	41kg/m^3/ cycle	-	3400/ yr	. Area expanded (no) – - 2. No of farmers adopted- 50.change in knowledge-120%,
Puri	Production enhancement of Paddy-pulse cropping system(IS)								. Area expanded (ha) – 12 2. No of farmers adopted- 38 3.change in knowledge, production & Income-128%,
Puri	Scientific method of Brinjal cultivation (FW)	25	56	85	172	225	56,000	72,000	. Area expanded (ha) – 18 2. No of farmers adopted- 25.change in knowledge, production & Income-51%,30.8%,28.5%,
Puri	Scientific method of Chilli cultivation(FW)	25	48	67	62	87	52000	78000	. Area expanded (ha) 16 2. No of farmers adopted- 25change in knowledge, production & Income-39%,40.3%,50%,
Puri	Scientific method of Winter vegetable seedling raising(FW)	75	50	95	-	-	12000	28000	. Area expanded (ha) – - 2. No of farmers adopted- 40.change in knowledge, & Income-90%,,130%
Puri	Scientific method of Potato cultivation(FW)	60	62	89	170	203	-	-	. Area expanded (ha) – 22 2. No of farmers adopted- 60change in knowledge, production & Income-43.5%19.4%,20.9%,
Puri	Scientific method of Banana, Papaya cultivation(RY)	25	44	72	1800 bunches	2000 bunches	62,000	84000	. Area expanded (ha) 32 2. No of farmers adopted- 25change in knowledge, production & Income-63.6%,11.1%,35.4%
Puri	Scientific method of Rose and Marigoldcultivatio(IS)	25	35	62	87.5	105.4	62,400	80,630	. Area expanded (ha) – 21 2. No of farmers adopted- 25change in knowledge, production & Income-77.1%,20.4%,29.2%

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	
Puri	Bio-control of pest and diseases(FW)	25	45	82	65	87	25,000	43,000	1 .Area expanded (ha) - 53 2. No. of farmers adopted (no.) -23 3. % change in knowledge, production & Income 82.2, 33.84, 72
Puri	IPM in Paddy	13	40	90	42	50	33,600	47,500	1. Area expanded (ha) - 120 2 No. of farmers adopted (no.) - 300 3. % change in knowledge, production & Income125, 19.04, 41.3
Puri	Disease & Pest management in Ornamentals(IS)					s			. Area expanded (ha) – 12 2. No of farmers adopted- 38 3.change in knowledge, production & Income-128%,
Puri	Mushroom production(RY)	50	55	82	.8kg/bed	1.2kg/bed	24/bed	56/bed	1. Area expanded (ha) 2. No of farmers adopted- 50.change in knowledge, production & Income-49%, 50%, 133%.
Puri	Composite fish culture (FW)	75	35	80	15	22	65000	104000	1. Area expanded (ha) – 12 2. No of farmers adopted- 38 3.change in knowledge, production & Income-128%, 31%, 60%.
Puri	Integrated fish farming (RY)	50	31	72	-	-	70,000	1,35,000	1. Area expanded (ha) – 6 2. No of farmers adopted- 20 3.change in knowledge, production & Income-132%, -, 92%.
Puri	Fry and fingerling production (RY)	10	41	83	-	-	-	-	1. No of farmers adopted- 6 3.change in knowledge 102

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			
Puri	Field Day	23	6	130	4	19	4	2	-	Dissemination of improved technology	Agricultural and allied subjects	Crop maturity stage, Harvesting stage
Puri	Kisan Mela	2	0	-	-	-	-	-	-	awareness	Latest technology	-
Puri	Kisan Ghosthi	10	0	-	-	-	-	-	-	Dissemination of improved technology	Latest technology	-
Puri	Exhibition	4	4	1635	77	200	88	-	-	Dissemination of improved technology	Latest technology	-
Puri	Film Show	60	13	226	35	12	27	-	-	awareness	Agricultural technology	-
Puri	Method Demonstrations	-	-	-	-	-	-	-	-	-	-	-
Puri	Farmers Seminar	1	-	-	-	-	-	-	-	-	-	-
Puri	Workshop	-	-	-	-	-	-	-	-	-	-	-
Puri	Group meetings	40	85	512	58	155	41	-	-	awareness	Agricultural activity	
Puri	Lectures delivered as resource persons	8	15	512	125	64	49	-	-	To update the knowledge	Agricultural and allied subjects	-
Puri	Newspaper coverage	15	5	Mass						To highlight KVK programmes	Training, FLD, OFT, Kisan mela	-
Puri	Radio talks	20	16	Mass						Dissemination of improved technology	Agricultural and allied subjects	-
Puri	TV talks	8	11	Mass						Dissemination of improved technology, awareness	Agricultural and allied subjects and KVK activities	-
Puri	Popular articles	10	14	Mass						awareness	Agricultural and allied subjects and KVK activities	-
Puri	Extension Literature	8	9	Mass						Improved technology	Agricultural and allied subjects	-
Puri	Farm advisory Services	50	-	-	-	-	-	-	-	Dissemination of improved technology, awareness	Agricultural and allied subjects	Different stages of crop
Puri	Scientific visit to farmers field	120	153	545	156	85	39	-	-	Field visit	Agricultural and allied activities	Different stages of crop
Puri	Farmers visit to KVK	300	188	112	46	22	8	-	-	Field related problems	Agricultural and allied subjects	-
Puri	Diagnostic visits	120	63	245	46	40	8	-	-	Field visit	Agricultural and allied activities	Different stages of crop
Puri	Exposure visits	3	1	9	-	2	1	-	-	-	-	-
Puri	Ex-trainees Sammelan	2	-	-	-	-	-	-	-	To assess the impact of training	Agricultural and allied subjects	-

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			
Puri	Soil health Camp	-	-	-	-	-	-	-	-	-	-	-
Puri	Animal Health Camp	3	2	55	2	8	-	-	-	Animal health check	Vaccination of animal diseases	-
Puri	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
Puri	Soil test campaigns	4	2	43	-	7	-	-	-	Awareness about soil testing	Agriculture and allied subject	Before field preparation
Puri	Farm Science Club conveners meet	2	0	-	-	-	-	-	-	Exchange of ideas	Agriculture and allied subject	-
Puri	Self Help Group conveners meetings	2	0	-	-	-	-	-	-	Exchange of ideas	Agriculture and allied subject	-
Puri	Mahila Mandals conveners meetings	2	0	-	-	-	-	-	-	-	-	-
Puri	Celebration of important days	7	6	115	26	10	4	-	-	Dissemination of improved technology, awareness	Agriculture and allied subject	-

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
Puri		July '11-Sept '11	500	500

7.2 Literature developed/published

KVK Name	Date of start	Periodicity	Number of copies printed	Number of copies distributed
KVK Name	Type	Title	Author's name	Number of copies
Puri	leaflet	Seed production methods in vegetable crops	B. Mishra, A. Das	500
Puri	booklet	Cost of cultivation of major cereals, fruits and vegetables of Puri district	A. Das, B. Mishra	500
Puri	leaflet	Oyster mushroom cultivation	S. Parichha, A. Das	500
Puri	Booklet	Vermicompost	A. Das, S. Parichha, N. Sasmal	500
Puri	leaflet	Save nutrients while cooking	S. Parichha, A. Das	500
Puri	Booklet	Composite fish culture	S. Sahu, M. R. Behera, A. Das	500
Puri	leaflet	Magur culture	M. R. Behera, S. Sahu, A. Das	500

Puri	leaflet	IPM in betelvine	S. Baral, A. Das	500
Puri	leaflet	Scientific method of green gram cultivation	A. Das, S. Paramaguru	550
Puri	leaflet	Scientific method of groundnut cultivation	A. Das, S. Paramaguru	50
Puri	booklet	Scientific method of groundnut cultivation	A. Das, S. Paramaguru	500

7.3 Details of Electronic Media Produced : Nil

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
Puri	Cereals	Paddy	Puja, Barsadhan, Sarala	SD	348	qtl	715850	
Puri	Pulses	Black gram	PU-30	SD	4.8	Qtl	30996	
Puri		Green gram	PDM-139	SD	4.4	qtl	32806	
Puri	Fruits							

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	
Puri	Vegetable	Pointed gourd	7.12.11	12.1.12		Swarna Aloukik	PM	500	2920	4000	Entire planting material sold
Puri	Vegetable	Papaya	7.3.12	31.3.12		CO2, CO7	PM	2000	520	4770	954 seedlings sold
Puri	Vegetable	Moringa	7.3.12	31.3.12		PKM-1	PM	400	280	250	50 seedlings sold
Puri	Vegetable	Brinjal, chilli	7.3.12			Blue star round, Hybrid	PM	2000	440	-	-

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	
Puri					

8.4 Livestock and fisheries production : Nil

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

9. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : **NO**, If yes, then

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
Puri					

10. Rainwater Harvesting: Nil

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
Puri										

11. Utilization of Farmers Hostel facilities

Accommodation available (No. of beds) :: Nil

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)
Puri							

12. Utilization of Staff Quarters facilities: nil

13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Puri	18.07.11	18	INM and IPDM in paddy, Importance to HYVs and Hybrids in field crops and Vegetables, Line planting with special importance to SRI, Crop diversification, IFS in existing ponds, Crab fattening and fresh water cultivation, Coconut and mango cultivation. 3 tier cropping system in coconut orchards, Off season vegetable cultivations, farm mechanization, Kissan gosti and SHG formation, etc

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

KVK Name	No. of messages sent	No. of beneficiary		Major recommendations
		Farmers	Ext. Pers.	
Puri	77	142	1146	

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
Puri	ATMA					
Puri	MNREGA					
Puri	NHM					
Puri	RKVY	Central	2,00,000	Ventilated Polyhouse	Infrastructural development	Seedling raising
Puri	DRDA					
Puri	Zila Panchyat					
Puri	Seed village					
Puri	NAIP					
Puri	Climate Change					
Puri	Others (Plz. Specify) NFSM	BGREI	1,00,000	Monitoring of block demonstration in rice	6 blocks of Puri district	To meet the TA, DA and POL expenses

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Puri	30356069907	12,083	1,22,224	1,22,224

17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Puri	Best entrepreneurship award	Farmer	OUAT, Bhubaneswar	-

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

Name of the KVK, **TITLE, Introduction,** KVK intervention, Output, Outcome, Impact Success story1

OLERICULTURE AS A PAYING ENTERPRISE

Introduction:

Willingness, fortitude and forbearance can achieve success in every step of life. This has been proved by Mr. Hadubandhu Sahu, a 7th class passed farmer of Pipili block. Mr. Hadubandhu Sahu was initially residing at Berhampur. He has two sons and one daughter. He was cultivating paddy in 5 acres of land, groundnut in 2 acres at Berhampur. But due to scarcity of water he could not earn profit from such cultivation. He came to Satasankha of Pipili block in 2008 by getting inspiration from one of his causin brother working at Uttarayani Jugashree Club. He contracted with club Secretary and took 5 acres area of Uttarayani Jugashree Club on a lease with an annual payment of Rs. 10,500/- to the club. He started vegetable cultivation there including Chilli, cauliflower, tomato in rabi season, Bhindi, Chilli in summer and Brinjal in kharif season. But due to lack of basic knowledge of vegetable cultivation he got lower yield and could get low income which was found insufficient to run his family smoothly.

Intervention / methodology / Process:

In due course of time Mr. Sahu came in contact with KVK scientists and attended various training programmes on Rabi, summer, kharif vegetable cultivation conducted by KVK scientists. He followed the advice of the scientists and again started vegetable cultivation in a scientific way. He applied neem oil cake @1q/ha at the time of final land preparation and before sowing in the nursery bed he treated seeds with Ridomil M-Z @25gm and Streptocyclin 1.5 mg/10 lit of water. He has given much importance on INM practices and applied vermicompost @ 2 ton/ha of land. Basing on the soil

test based reports he applied fertilizer in the field. He applied organic pesticides for insect pest control. He cultivated Chilli in 0.7 ha, Cauliflower 0.2 ha, Babycorn 0.28 ha, Cowpea 0.08 ha, Tomato 0.4 ha and Okra in 0.28 ha of land.

Output:

Mr. Hadubandhu Sahu has got a net income of Rs.70,000/- from his 0.76 ha of Chilli cultivation with productivity 75q/ha. From 0.2 ha of cauliflower field he earned net return of Rs.16,300/- with productivity 225q/ha. He has got net income of Rs.21,000/- from baby corn, Rs.4,600/- from 0.08 ha of cowpea, Rs.38,000/- from 0.4 ha of Tomato and Rs.18,000/- from 0.28 ha of okra. In baby corn he obtained yield of 12q dehusked baby corn/ha, in cowpea 90q/ha, in tomato 300q/ha, in okra 138q/ha. He has got an net income of Rs.1,67,900/- from an area of 2 ha with an investment of Rs.95,000/-.

Outcome:

Mr. Hadubandhu Sahu now becomes an example for fellow farmers of nearby villages of Pipili block. About 150 farmers have decided to follow the technology adopted by Mr. Sahu to boost their production as well as income.

Impact:

In Puri district the area under scientific vegetable cultivation has been increased as follows Chilli- 5 ha, Cauliflower- 7 ha, Okra- 12 ha, Tomato- 22 ha. Due to scientific method of cultivation the productivity of various vegetable crops has seem to be increased. The increase in productivity of various crop has been given in the following tables:

Vegetables	**Productivity (q/ha)**	
	Before intervention of KVK	**After intervention of KVK**
Chilli	60q/ha	75 q/ha
Cauliflower	180q/ha	225 q/ha
Cowpea	80q/ha	90 q/ha
Tomato	250q/ha	300 q/ha
Okra	125q/ha	138q/ha
Employment generation	2	6

Conclusion:

After testing the charm of success Mr. Hadubandhu Sahu is now trying to expand the vegetable area under high value vegetable crop so that he will get more profit out of olericulture enterprise.

Success story 2 Vermicomposting- A novel enterprise for farm women in Puri district

Introduction :

Smt. Bhabani Mohanty of village-Gokulpur, Post-Kakatpur, Dist-Puri is a house wife. Her husband is a farmer who is cultivating his own land of 3acres. The income from the land was not sufficient to maintain his six member family. They have 2 nos. of milking cows and one betelvine garden in 3 gunth land. Smt.Mohanty was in search of a vocation from which she can earn something to maintain her family. In one of the awareness camp organized by KVK. She came in contact with KVK scientists. By knowing her interest, potential and need KVK scientist imparted a training on vermicomposting and inspired for vermicompost and vermiculture production.

Intervention/methodology/process:

After imparting training, Smt. Mohanty was selected as one of the beneficiary under FLD programme on vermicompost production during 2007-08. She was supplied with cement rings of 1 meter width for construction of vermi pit and 500 nos. of earthworm culture of *Eisenia foetida* specis. Step to step guidance was provided by the KVK scientists. The height of the unit was 1mt. A shade was provided above the unit to prevent from heat and rain.

The base of the vermin unit was filled with brick clods and sand. Over this partial decomposed waste material and cow dung slurry were charged in order to feed the earthworms. The charging of waste and cow dung slurry was continued till the heap of material is 6 inch below the surface. The unit was kept moist with about 50% moisture content by watering the unit. After 75 days the compost was ready for harvest. 3 to 4 days before harvesting, the watering was stopped. Then the compost was separated from the bed and earthworms were separated by sieving. The worms were again recycled for further composting. The separated compost was dried under shade and put in the desired packet for sale. The final compost was dark in colour and looked like used tea crystal. It had no fowl smell and it was very lighter in weight.

Output :

From one cubic meter vermin compost unit, 2 quintals of vermin compost and 8000 nos. of earthworms were harvested per year. Initial investment was Rs 1200. From this small investment she get a net return of Rs 4750 in the first year and Rs 10500 in the second year.

Outcome:

By seeing the success of Smt. Soudamini Mohanty, other women of the same village are also continuing vermin compost production. Now about 20 vermi compost units are established in Kakatpur block by getting the inspiration of Smt. Mohanty and technology from KVK.

19. Details of KVK Agro-technological Park : Nil

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

20. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	Remarks
Puri	B.D. Mallick, AF &AO, ZPD-II	1.5.11	Visited KVK campus
Puri	Ajay Pandey, Senior Consultant E&Y, Gurgaon, Haryana	20.7.11	Visited the KK office and understood its functioning across various varticals
Puri	Dr. S.S. Mishra, Sr. Agronomist AICRP on weed control	4.8.11	Visited the KVK fields
Puri	Dr. Manomohan Mishra, Associate Professor AICRP on weed control	4.8.11	Interact with PC and scientists of KVK and discusses many issues related to weed problems on different crops
Puri	Dr. R.B. Deshmukh Chairman QRT & former Vice Chancellor MPKVK , Rahuri, Maharashtra	19.10.11	QRT visit to KVK

Name of KVK	Name of Visitor	Date of Visit	Remarks
Puri	Dr. Aditya prakash Dwivedi, Sr. Scientist (Agronomy), Zonal Project Directorate, Zone-VII, ICAR, Jabalpur, M.P.	19.10.11	QRT visit
Puri	Dr. Prem Chand Scientist, ZPD unit, Jabalpur	19.10.11	QRT visit
Puri	Prof. D. P. Ray, Vice Chancellor, OUAT	25.2.12	Review of KVK activities
Puri	Dr. S.S. Nanda, Dean, DEE, OUAT	18.3.12	Review of KVK activities
Puri	Dr. P.N. Mohapatra, Professor & head Dept. of vegetable science OUAT, BBSR	14.3.12	Field visit and discussed with KVK farmers
Puri	Dr. L. N. Garnayak, Chief Scientist AICRP IFS, OUAT	16.3.12	Field visit and discussed with KVK farmers
Puri	Dr. R.C. Panda, WMS & Agronomist DDA, Puri	13.3.12	Field visit and discussed with KVK farmers
Puri	Dr. B.K. Sontakke Professor, Dept. of Entomology CA, BBSR	13.3.12	Field visit and discussed with KVK farmers and scientists about the insect pest problems in rice and vegetables
Puri	Dr. P.K. Panda, DGM, NABARD, Puri	15.3.12	Discuss with PC about farmers club formation and SHG activity
Puri	Dr. Ashok Mohapatra, Deputy Director, Extension DDE, OUAT	15.3.12	Field visit and discussed with KVK farmers

21. Status of KVK Website: Available / Not Available

22. E-CONNECTIVITY: Nil

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			
Puri							

23. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS:

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop / livestock technology
Puri	Gosthies			
Puri	Lectures organized			
Puri	Exhibition			
Puri	Film show			
Puri	Fair (Kisan mela)			
Puri	Farm Visit			
Puri	Diagnostic Practical's			
Puri	Distribution of Literature (No.)			
Puri	Distribution of Seed (q)			
Puri	Distribution of Planting materials (No.)			
Puri	Bio Product distribution (Kg)			
Puri	Bio Fertilizers (q)/ vitamin mineral mixture			
Puri	Distribution of fingerlings (No)			
Puri	Distribution of Livestock specimen (No.)/Deworming & medicines			
Puri	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

Major area coverage under alternate crops/varieties

Mane of KVK	Crops	Area (ha)	Number of beneficiaries
	Oilseeds		
	Pulses		
	Cereals		
	Vegetable crops		
	Tuber crops		
	Fruits		
	Spices		
	Cotton		
	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**
Puri			

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				
Puri				

Bio-control Agents : Nil

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**
Puri				

(f) Verms Produced

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

(g) Large scale adoption of resource conservation technologies : nil

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
Puri												

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

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) –