



# **ANNUAL PROGRESS REPORT**

## **Krishi Vigyan Kendra, Puri**

**(April 2010 to March 2011)**

**Orissa University of Agriculture and Technology**  
**Bhubaneswar -3**

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## **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 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	
Puri	OFTs	18	90	18	90	
Puri	FLDs – Oilseeds (activity in ha)	5	15	5	15	
Puri	FLDs – Pulses (activity in ha)	-	-	-	-	
Puri	FLDs – Cotton (activity in ha)	-	-	-	-	
Puri	FLDs – Other than Oilseed and pulse crops (activity in ha)	23	117	21.98	117	
Puri	FLDs – Other than Crops (activity in no. of Unit/Enterprise)	9	51	9	51	
Puri	Training-Farmers and farm women	74	1850	73	1825	
Puri	Training-Rural youths	24	495	21	350	
Puri	Training- Extension functionaries	18	450	16	333	
Puri	Extension Activities	687	2750	665	2553	
Puri	Seed Production (Number of activity as seeds in quintal)	-	-	-	-	
Puri	Planting material ((Number of activity as quantity of planting material in quintal)	-	-	-	-	
Puri	Seedling Production (Number of activity as number of seedlings in numbers)	-	-	590	-	
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)	Dt.16.12.2010	39	Dt.16.12.2010	39	
Puri	Newsletters (no.)	4	-	2	-	
Puri	Publication (Research papers, popular article)	6	-	6	-	
Puri	Convergence programmes / Sponsored programmes	-	-	-	-	
Puri	KVK-ATMA Linkage programme (Number of activities)	-	-	-	-	
Puri	Outreach of KVK in the District (No. of blocks, no. of villages)	9 blocks, 112 villages	-	9 blocks, 112 villages	-	
Puri	Soil sample tested	15	15	15	15	
Puri	Water sample tested	-	-	-	-	
Puri	KMA (No. of messages & beneficiaries)	6	889	6	889	

# 1. GENERAL INFORMATION

## 1.1. Staff Position (dt.31.3.2011)

Name of KV.K.	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.(Mrs) D. Jena I/c PC	Hom.Scie	Ph.D	Home Science	15600-39100 AGP-6000	19050	01.07.07	Permanent	GEN
Puri	Subject Matter Specialist1	H. K. Sahoo	Agronomy	PG	Agronomy	15600-39100 AGP-7000	24100	08.08.06	Permanent	GEN
Puri	Subject Matter Specialist2	P. K. Nanda	Plant protection	PG	Entomology	15600-39100 AGP-6000	18320	25.08.06	Permanent	GEN
Puri	Subject Matter Specialist3	Babita Mishra	Horticulture	PG	Horticulture	15600-39100 AGP-6000	18320	30.06.07	Permanent	GEN
Puri	Subject Matter Specialist4	Bijayalaxmi Mohanta	Agri.Engg	PG	Agri.Engg	15600-39100 AGP-6000	16250	9.11.09	Permanent	GEN
Puri	Subject Matter Specialist5	Swagatika Sahu	Fish.Sc	PG	Fish.Sc	15600-39100 AGP-6000	15600	23.4.10	Permanent	GEN
Puri	Subject Matter Specialist6	Vacant	Extension	-	-	-	-	-	-	-
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  $19^0 20^{\frac{1}{2}}$  to  $29^0 35^{\frac{1}{2}}$  north latitude and between  $34^0 28^{\frac{1}{2}}$  to  $36^0 25^{\frac{1}{2}}$  east longitude. Asia's largest brackish 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.**

<b>Agro-climatic zone</b>	<b>Agro-Ecological Situation</b>
1. East and South East Coastal Plain zone	<ul style="list-style-type: none"><li>1. Coastal Alluvial Command</li><li>2. Coastal Alluvial Non-command</li><li>3. Coastal Alluvial Saline</li><li>4. Rainfed Laterite</li><li>5. Rainfed Red and Laterite</li><li>6. Rainfed brown forest</li></ul>

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

**Temperature:** Maximum  $39^0\text{C}$  (April-May)      Minimum  $18^0\text{C}$  (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		
<b>Rice based farming system with following cropping system</b>			<b>Enterprise</b>
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)
<b>Cattle</b>			<b>Poultry</b>		
<i>Crossbred</i>	85417	92 (Milk)	<i>Hens</i>		13 mill. Eggs
<i>Indigenous</i>	367575		<i>Desi</i>	140376	
<b>Buffalo</b>	16649		<i>Improved</i>	125698	
<b>Sheep</b>			<b>Ducks</b>		
<i>Crossbred</i>	307		<i>Turkey and others</i>		
<i>Indigenous</i>	74734	1775 (Meat)	<b>Fish</b>		306.95
<b>Goats</b>	120128		<i>Marine</i>		116.88
<b>Pigs</b>			<i>Inland</i>		190.07
<i>Crossbred</i>	4		<b>Prawn</b>		
<i>Indigenous</i>	2055		<b>Scampi</b>		
<b>Rabbits</b>	Nil		<b>Shrimp</b>		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	Khirikhia	2008	Nimapara	40 km	252	50
Puri	Silari	2008	Astarang	12 km	132	22
Puri	Sarbabada	2008	Nimapara	22 km	324	45
Puri	Sama	2008	Gop	16 km	750	88
Puri	Naranpur	2009	Kakatpur	12 km	624	94
Puri	Dumukipur	2009	Pipili	60 km	300	30
Puri	Baramanasahi	2009	Satyabadi	65 km	475	130

**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 yield in cauliflower due to deficiency of boron	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 teasle gourd due to use of local var.	PRA, Farmers field visit, group discussion with farmers, Discussion with government officials
Puri	Low yield in banana (patkapura) due to improper management practices	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

<b>KVK Name</b>	<b>Problem identified</b>	<b>Methods of problem identification</b>
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	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 (with parameter)		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
Puri	2010 kharif	Low yield of rice due to cultivation of old variety	Assessment	Varietal evaluation	crop	Medium land	Assessment of Rice var. Ranidhan	4	43.1	46.5	17400	20600	Rice var. Ranidhan can be substituted for Swarna under medium land situations
Puri	2010-11 rabi	Low yield of sunflower due to improper nutrient management	Assessment	Integrated nutrient management	crop	Medium land	Assessment of integrated nutrient management in sunflower	5	12.3	15.8	20739	29166	INM including chemical fertilizer and biofertiliser should be adopted in sunflower for obtaining higher yield
Puri	2010-11 rabi	High weed infestation in groundnut causes crop loss	Assessment	Weed management	crop	Medium land	Assessment of oxyfluorfen for weed management in groundnut	5	18.6	21.9	34345	43135	Weed management through pre-emergence application of oxyfluorfen @ 0.04 kg ai/ha controls the weeds at the early stage of crop growth and reduces the cost of production
Puri	2009-10 Rabi	Low yield of Rice due to high incidence of BPH in Rice	Assessment	IPM	Crop	Medium land	Assessment of Multineem in management of BPH in Rice	5	38.4	45.7	10412	16187	Application of Multineem at early stage of attack effectively controls the BPH in Rice

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	
Puri	2010-11 Kharif	Low yield of Rice due to high incidence of leaf folder	Assessment	IPM	Crop	Irrigated medium land	Assessment of IPM strategy for management of leaf folder in Paddy	5	37.5	41.8	12600	16300	Application of Thimet @ 15 kg/ha in nursery+ Release of Trichogramma chilonis @ 50000/ha 6 times at 10 days interval controls the leaf folder and is environmental friendly
Puri	2010-11 Rabi	Low yield of Okra due to high infestation of Fruit Borer	Assessment	IPM	Crop	Irrigated medium land	Assessment of BT in management of fruit Borer in Okra	5	Continuing				
Puri	2010-11 Rabi	Low yield of Tomato due to incidence of leaf curl virus	Assessment	IDM	Crop	Irrigated medium Land	Assessment of IDM for management of Leaf curl virus in Tomato	5	Continuing				
Puri	2010-11 Rabi	Low yield of Brinjal due to incidence of wilting	Assessment	IDM	Crop	Irrigated medium Land	Assessment of Blitox-50 and streptocycline for management of wilting in Brinjal	5	Continuing				

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	
Puri	2010-11 rabi	Low yield due to use of local variety Early Kunwari	Assessment	Vegetable production	Crop	Irrigated medium land	Assessment of Cauliflower Mid early var. Amazing	4	175q/ha	225q/ha	50,400	85,600	Cauliflower Mid early var. Amazing can be substituted against early Kunwari in Irrigated medium land
Puri	2010-11 Rabi	Low yield due to use of local variety	Assessment	Vegetable production	Crop	Irrigated medium land	Assessment of broccoli var. Pusa broccoli KT selection 1	4	95q/ha	130q/ha	49,500	83,500	Broccoli var Pusa broccoli KT selection 1 can be substituted against local var. in Irrigated medium land
Puri	2010 Kharif	Low yield due to local bantala plantlets	Assessment	Vegetable production	Crop	Irrigated medium land	Assessment of Tissue culture banana Bantala	10	Continuing				
Puri	2010 kharif	non availability of labour and transplanting increases cost of cultivation	Assessment	Farm mechanization	enterprise	Medium, irrigated land	Assessment of performance of pre-germinated paddy drum seeder	5	36.8	40.5	17183	19083	Use of drum seeder in rice should be adopted as the yield is higher than the traditional broadcasting method
Puri	2010 kharif	Low efficiency and more time consuming in puddling	Assessment	Farm mechanization	enterprise	Medium irrigated land	Assessment of performance of bullock drawn puddler	5	39.8	41.2	16650	19050	Bullock drawn puddler should be adopted as puddling capacity is higher than indigenous plough

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		
Puri	2010-11 Rabi	Broadcasting of seeds produces uneven plant population	Assessment	Farm mechanization	enterprise	Medium irrigated land	Assessment of performance of zero till drill for sowing of green gram	5	6.2	7.3	24800	29200
Puri	2010-11 Rabi	Application of urea by hand produces problem in farmers.	Assessment	Farm mechanization	enterprise	Medium irrigated land	Assessment of performance of fertilizer broadcaster	5	Area coverage 1 ha/hr	Area coverage 0.31ha/hr	-	-
Puri	2010 Kharif	Low fish yield due to non use of organic fertilizer	Assessment	Composite fish culture	Enterprise	Fish pond	Assessment of organic fertilizer on fish yield	4	Continuing			
Puri	2010 Kharif	Low fish yield due to occurrence of diseases	Assessment	Integrated disease management	Enterprise	Fish pond	Assessment of preventive measure for fish health management	4	Continuing			
Puri	2010 kharif	Poor health status for specially lack protein	Assessment		Enterprise		Assessment of Azolla as animal feed	5	180 lit/ cow/ month	219 lit/ cow/ month	600	1485

## Economic Performance

KV K nam e	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 <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP(T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )
Puri	Assessment of Rice var. Ranidhan	Yield (q/ha)	46.5	43.1	25700	25900	-	43100	46500	-	17400	20600	-	1.7	1.8	-
Puri	Assessment of integrated nutrient management in sunflower	Yield (q/ha)	15.8	12.3	16161	18234	-	36900	47400	-	20739	29166	-	2.3	2.6	-
Puri	Assessment of oxyfluorfen for weed management in groundnut	Yield (q/ha)	21.9	18.6	17735	18185	-	52080	61320	-	34345	43135	-	2.9	3.4	-
Puri	Assessment of Multineem in management of BPH in Rice	Yield (q/ha)	38.4	45.7	26978	26030	-	36442	43165	-	10412	16187	-	1.5	1.6	-
Puri	Assessment of IPM strategy for management of leaf folder in Paddy	Yield (q/ha)	41.8	37.5	24900	25500	-	37500	41000	-	12600	16300	-	1.5	1.6	-
Puri	Assessment of BT in management of fruit Borer in Okra	Continuing														

KV K nam e	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 <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP(T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )
Puri	Assessment of IDM for management of Leaf curl virus in Tomato	Continuing														
Puri	Assessment of Blitox-50 and streptocycline for management of wilting in Brinjal	Continuing														
Puri	Assessment of Cauliflower Mid early var. Amazing	Yield (q/ha)	225	175	37,100	49,400	-	87,500	1,35,000	-	50,400	85,600	-	2.3	2.7	-
Puri	Assessment of broccoli var. Pusa broccoli KT selection 1	Yield (q/ha)	130	95	45,500	46,500	-	95,000	1,30,000	-	49,500	83,500	-	2.0	2.8	
Puri	Assessment of Tissue culture banana Bantala	Yield (q/ha)	Continuing													
Puri	Assessment of performance of pregerminated paddy drum seeder	Yield (q/ha)	40.5	36.8	19617	21417	-	36800	40500	-	17183	19083	-	1.8: 1	1.9: 1	-

KV K nam e	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 <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP(T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice , if any (T <sub>3</sub> )
Puri	Assessment of performance of bullock drawn puddler	Yield (q/ha)	41.2	39.8	23150	22150	-	39800	41200	-	16650	19050	-	1.7: 1	1.9: 1	-
Puri	Assessment of performance of zero till drill for sowing of green gram	Yield (q/ha)	7.3	6.2	12650	12950	-	24800	29200	-	12150	16250	-	1.9: 1	2.3: 1	-
Puri	Assessment of performance of fertilizer broadcaster	Area coverage(ha/hr) Cost of operation (Rs/ha)	1 11.25	0.31 28.28	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	-
Puri	Assessment of organic fertilizer on fish yield	Continuing														
Puri	Assessment of preventive measure for fish health management	Continuing														
Puri	Assessment of Azolla as animal feed	Yield (lit/month)	180 lit/ Cow /month	219 lit/ Cow /month	2100/co w	1800/co w	-	2700/co w	3285/co w	-	600/co w	1485/co w	-	1.2: 1	1.8: 1	-

## 2.2 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, Kisan 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, Kisan 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	Water melon	Vegetable cultivation	Seed treatment with Bavistin 2gm/kg of seeds, Neem oil cake2.5q/ha, 188:100:100 kg NPK / ha, 25kg borax/ha	Farmers fair, exposure visit, radio talk, video show, NGO Extension literature, Training	4	60	15
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	Pumpkin	IPM	Spraying of Imidachloprid @ 0.004%	leaflet, exposure visit, diagnostic survey, radio talk, film show	6	55	12
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

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	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
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	Composite fish culture	Stocking of IMC @10000/ha feeding @2-5% body wt.	Farmers fair, NGO, Extension literature, Radio, TV Show, CD Show	8	125	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/Entreprises	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Puri	Varietal evaluation	Rice	Kharif, 2010	Scented rice variety Nuadhusara with full package of practices	2 ha	Nuadhusara	35.7	34.0	5.0	-	-	5	-	5
Puri	Weed management	Rice	Kharif, 2010	Pre-emergence application of butachlor @ 1 kg ai/ha at 3 days after transplanting	2 ha	Butachlor	46.4	44.3	4.7	-	-	5	-	5

KVK Name	Thematic area	Name of Crop/Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/Technology/Entreprises	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Puri	Vermicompost production	Vermicompost	Kharif, 2010	Vermicomposting using <i>Eisenia foetida</i>	10 units	Vermicomposting using <i>Eisenia foetida</i>	41 kg/m <sup>3</sup> /cycle of 3 months	-	-	2	-	8	-	10
Puri	Production of organic input	Azolla	Kharif, 2010	Azolla production using <i>Azolla pinnata</i>	10 units	Azolla production using <i>Azolla pinnata</i>	18 kg /month	-	-	3	-	7	-	10
Puri	IDM	Betelvine	Rabi 2010	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 alternatively at 15 days intervals	0.4 ha	Integrated Disease management	Continuing	-	-	3	-	6	1	10
Puri	IPM	Chilli	Rabi 2010-11	Use of Thiometoxam @ 3gm/10 ltr. Of water at 10 days interval	0.4	IPM	Continuing						5	5
Puri	ICM	Groundnut Oilseed & pulse	Rabi 2010-11	Seed Smruti + seed treatment with Bavistin@ 3gm/kg of seed + Seed inoculation with Rhizobium + Gypsum 250 kg/ha +Soil application of Chloropyriphos 25kg/ha+ NPK @ 20:30:40 kg/ha(Soil test based) + Need based pesticides application	5.0	Smruti	23.7	15.9	49	-	-	15	-	15

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	ICM	Blackgram NFSM	Rabi 2010-11	Seed PU-31 + seed treatment with Bavistin@ 3 gm/ kg of seed+ Seed inoculation with Rhizobium @ 20 gm/kg of seed + NPK 20:40:15 kg/ha(Soil test based) +ZnSo <sub>4</sub> @ 15 kg/ha as basal+ Need based pesticides application	2.4	PU-31	7.75	4.5	72.2	1	-	13	1	15
Puri	ICM	Greengram NFSM	Rabi 2010-11	Seed PDM-139 + seed treatment with Bavistin@3gm/Kg of seed+ Seed inoculation with Rhizobium @ 20 gm/kg of seed+ NPK 25:30:20 kg/ha(Soil test based)+ ZnSo <sub>4</sub> @ 15 kg/ha as basal + Need based pesticides application	3.2	PDM-139	8.2	5.75	42.6	-	-	13	-	13

KVK Name	Thematic area	Name of Crop/Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/Technology/Entreprises	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
-Puri	Production and management technology to exploit yield potentiality	papaya	Rabi 2009-10	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)	0.4	Red lady	337.5	240	40.6	1			3	4
Puri	Production and management technology to exploit yield potentiality	Banana (Patakapura)	Rabi 2010-11	Sucker treatment with Ridomil MZ 0.25% + Streptocycline 0.015 %  Spacing (2.5 x 2.5) mt, pit treatment with furadon 10 gm, NPK-120-40-200 gm/plant	0.2	Patkapura	Continuing						6	6
Puri	Vegetable cultivation	Pointed gourd	Rabi 2010-11	Variety Swarna Aloukik with full package of practices	0.08	Swarna Aloukik	Continuing						4	4
	Vegetable cultivation	Chilli	Rabi 2010-11	Var. H-669 with full package of practices	0.2	H-669	Continuing						5	5
Puri	Farm mechanisation	Axial flow thresher	Kharif, 2010	Threshing capacity	-	Tractor operated axial flow thresher	8.2 q/hr	0.15q/hr	5367			5	-	5
Puri	Farm mechanisation	Vertical conveyor reaper	Kharif, 2010	Harvesting capacity	1 ha	Vertical conveyor reaper	0.2 ha/hr	0.01ha/hr	1900			5	-	5
Puri	Farm mechanisation	Self propelled rice transplanter	Rabi, 2011	Transplanting capacity	0.8 ha	Self propelled rice transplanter	continuing			5	-	-	-	5

KVK Name	Thematic area	Name of Crop/Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/Technology/Entreprises	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Puri	Fingerling production	Fishery	Kharif,2010	Stocking 2lakh fry/ha with 5-10% body wt.	0.5 ha	<i>Catla catla, Labeo rohita, Cirrinus mrigala</i> fry	1,44,300 no/ha	87,000 no/ha	65	1	-	3	-	4
Puri	Composite fish culture	Fishery	Kharif, 2010	Stocking 10000 fingerling/ ha water area, stocking ratio catla:rohu:mrigala: S.C.:G.C:C.C- 2:2:2:1.5:1:1.5, feeding @2-5% body wt	1.2 ha	<i>Catla catla, Labeo rohita, Cirrinus mrigal, Cyprinus carpio, H. militrix, S. idella</i>	Continuing			-	-	4	-	4
Puri	Prawn culture	Shrimp	Rabi, 2010-11	Stocking 50,000 PL/ha of water area, feeding commercial pellet feed with 10-3% body wt thrice a day	1.2 ha	<i>Penaeus monodon</i>	30.17	17.75	70	1	-	2	-	3
Puri	Banaraja poultry	Banaraja	Kharif 2010	Rearing of Banaraja with proper nutrient management and vaccination	500 birds	<i>Banaraja</i>	131 eggs/yr, M wt- 3.6kg, F wt-2.7 kg	58 eggs/yr, M wt- 1.6kg, F wt-1.0 kg	125.8%, 125%, 170%	2	-	8	-	10
Puri	Duckery	Khaki Campbell	Kharif 2010	Rearing of ducks with full package package of practices	200 birds	<i>Khaki Campbell</i>	91 eggs/yr, egg wt- 38 gm, M wt- 1.7 kg, F wt- 1.1 kg	-	-	-	-	5	-	5

KVK Name	Thematic area	Name of Crop/Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety/Technology/Entreprises	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Puri	Household food security	Chilli (Utkal Ragini), Brinjal (Utkal keshari), Cauliflower (Hemalata), Tomato (BT-12), Coriander (All green), Greens (Amaranthus), Carrot, Raddish (Pusa Chetki), Beans (Arka Kamal)	Rabi, 2010-11	Use of HYV fruits and vegetables in nutritional gardening	0.2 ha	Chilli (Utkal Ragini), Brinjal (Utkal keshari), Cauliflower (Hemalata), Tomato (BT-12), Coriander (All green), Greens (Amaranthus), Carrot, Raddish (Pusa Chetki), Beans (Arka Kamal)	120	95	43.4	-	-	7	3	10
Puri	Rice Parbioling unit	Enterprise	Rabi 2010-11	CRRI model Parboiling unit	5 units	CRRI model Parboiling unit	74.5 kg rice/q of paddy	68 kg rice/q of paddy	9.5			5	5	
Puri	Mushroom production	Enterprise	Rabi 2010-11	Paddy Straw Mushroom production in poly house	5 units	<i>Volvariella volvacea</i>	1.2 kg/bed	0.9 kg/bed	33.3			5		5

### 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	Scented rice variety Nuadhusara with full package of practices	Yield (q/ha)	35.7	34.0	26500	26300	53550	40800	27050	14500	2.0	1.6

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	Pre-emergence application of butachlor @ 1 kg ai/ha at 3 days after transplanting	Yield (q/ha)	46.4	44.3	25200	26700	46400	44300	21200	17600	1.8	1.7
Puri	Vermicompost	Vermicomposting using <i>Eiseniafoetida</i>	Compost production(kg/m <sup>3</sup> /cycle of 3months)	41kg/m <sup>3</sup> /cycle	-	1900	-	5300/yr	-	3400/yr	-	2.8	
Puri	Azolla	Azolla production using <i>Azolla pinnata</i>	Azolla production(kg/month)	18kg/month	-	400	-	1080/month	-	680/month	-	2.7	
Puri	Betelvine	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 alternatively at 15 days intervals	Continuing										
Puri	Chilli	Use of Thiometoxam @ 3gm/10 ltr. Of water at 10 days interval	Continuing										
Puri	G.Nut Oilseed & Pulse	HYV Smruti with full package of practices	Yield (q/ha)	23.7	15.9	22975	16150	71100	47700	48129	31550	3.1	2.95
Puri	Black gram NFSM	HYV PU-31 with full package of practices	Yield (q/ha)	7.75	4.5	10375	7690	31000	20625	18000	10310	2.98	2.34
Puri	Greengram NFSM	HYV PDM-139 with full package of practices	Yield (q/ha)	8.2	5.75	11895	8600	32800	23000	20905	14400	2.759	2.67
Puri	Axial flow thresher	Threshing capacity	Threshing capacity	8.2q/hr	0.15q/hr	22815	25417	41500	41500	18685	16083	1.82	1.63

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	papaya	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)	Yield (q/ha)	337.5	240	1,00,940	62,000	1,85,625	96,000	84,685	34,000	1.83	1.54
Puri	Banana (Patakapura)	Sucker treatment with Ridomil MZ 0.25% + Streptocycline 0.015 %  Spacing (2.5 x 2.5) mt, pit treatment with furadon 10 gm, NPK- 120-40-200 gm/plant	Yield (q/ha)	Continuing									
Puri	Pointed gourd	Variety Swarna Aloukik with full package of practices	Yield (q/ha)	Continuing									
Puri	Chilli	Var. H-669 with full package of practices	Yield (q/ha)	Continuing									
Puri	Vertical conveyor reaper	Harvesting capacity	Harvesting capacity	0.2 ha/hr	.01 ha/hr	19352	22357	41500	41500	22148	19143	2.14	1.86
Puri	Self propelled rice transplanter	Transplanting capacity	continuing										
Puri	Fingerling production	Stocking 2lakh fry/ha with 5-10% body wt.	Survival (%)	72.16	43.3	81,916	60,660	1,44,300	87,000	62,384	26,340	1.76	1.43

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	Composite fish culture	Stocking 10000 fingerling/ ha water area, stocking ratio catla:rohu:mrigala: S.C.:G.C:C.C- 2:2:2:1.5:1:1.5, feeding @2-5% body wt	Yield (q/ha)	Continuing									
Puri	Brackish water prawn culture	Stocking 50,000 PL/ha of water area, feeding commercial pellet feed with 10-3% body wt thrice a day	Yield (q/ha)	30.17	17.75		3,80,000	5,32,500	9,05,100	3,68,100	1,52,500	1.40	1.68
Puri	Banaraja poultry	Rearing of Banaraja with proper nutrient management and vaccination	Yield (kg/bird)	3.08	1.08	Rs 119 per bird	Rs 62 per bird	Rs 308 per bird	Rs 108 per bird	Rs 119 per bird	Rs 46 per bird	2.58	1.74
Puri	Duckery	Rearing of ducks with full package package of practices	Yield (kg/bird)	1.72	-	Rs 55 per bird	-	Rs 121 per bird	-	Rs 66 per bird	-	2.20	-
Puri	Rice parboiling unit	CRRI model parboiling unit	Milling efficiency( Kg/ q of Paddy)										
Puri	Mushroom	Paddy straw mushroom production in poly house	Yield (q/ bed)										

### 3.4. Feedback of the Farmers

Name of KVK	Feedback
Puri	The variety Nuadhusara is preferred for its fine grain quality and aroma. The variety lodges at higher N level.
Puri	Weed management through butachlor is economical and labour saving and easier. But the chemical should be available in the locality
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	Scientific method of cultivation in papaya gave 40.6% higher yield than traditional method of cultivation
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		Field days	14	485	
		Farmers Training	14	350	
		Media coverage	16	-	
		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.13.4.2010, KVK campus	15
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.20.4.2010, Kanpur	20
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.14.5.2010, Sarbapada	15
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.20.5.2010, Kolipokhari	10
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.20.6.2010, Matiapada	16
Puri	IS	Group discussion	Dt.29.9.2010, DDH, Sakhigopal	10
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.2.10.2010, Naranapur	10
Puri	RY	PRA, Diagnostic field visit, Group discussion	Dt.5.10.2010, Beguniabasta	15
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.24.10.2010, Sarbapada	15
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.12.11.2010, Dumukipur	10
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt.23.11.2010, Musunupur	10
Puri	IS	Group discussion	Dt.12.1.2011, Dao, Sakhigopal	10
Puri	F/FW	PRA, Diagnostic field visit, Group discussion	Dt. 23.2.2011, Ekachalia	15

## 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
<b>Thematic Areas for Training</b>	
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	Agri. 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 KVKS	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		
Puri	FW	OFC	CRP	Azolla production	2	3		1	8	-	-	-	13	-
Puri	FW	OFC	PIS	Production of vermicompost	3	4		1	13	12	-	-	25	-
Puri	FW	OFC	CRP	Nursery management in paddy	1	1		-	5	-	-	-	-	-
Puri	FW	OFC	CRP	SRI method of rice cultivation	2	4		-	3	-	-	-	13	-
Puri	FW	OFC	CRP	Package of practices hybrid Nypex	1	1		3	8	-	-	-	-	-
Puri	FW	OFC	CRP	Integrated weed management in Groundnut	1	1	28	-	-	-	-	-	-	-
Puri	RY	OFC	RYH	Production of vermiculture using <i>Eisenia foetida</i>	2	4	25	-	5	3	-	-	17	-
Puri	RY	OFC	RYH	Production of vermicompost	1	2	20	-	-	-	-	-	-	-
Puri	IS	OFC	EXP	Maximization of yield of rice and pulses	1	1	35	11	1	1	-	-	-	-
Puri	IS	OFC	EXP	Production and use of vermicompost	1	1	14	1	-	-	-	-	-	-
Puri	FW	OFC	PLP	Integrated pest management in Okra	1	1	-	-	13	10	-	-	-	2
Puri	FW	OFC	PLP	Integrated management of stem borer in rice	1	1	-	-	3	-	-	-	-	22
Puri	FW	OFC	PLP	Management of major insects in coconut (RPW, RB)	1	1	1	-	-	-	-	-	-	24
Puri	FW	OFC	PLP	Integrated pest management in groundnut	1	1	-	-	1	-	-	-	-	24
Puri	FW	OFC	PLP	Integrated management of thrips in chilli	1	2	-	-	-	-	-	-	-	21
Puri	FW	OFC	PLP	Integrated management of YMV in green gram	1	1	1	-	5	-	-	-	-	19
Puri	FW	OFC	PLP	Integrated management of Wilt in pointed gourd	1	1	5	-	3	-	-	-	-	17
Puri	FW	OFC	PLP	Biological control of fungal diseases in Betelvine	2	2	3	-	10	-	-	-	-	37
Puri	FW	OFC	PLP	Biological control of fruit borer in Tomato	1	1	12	-	-	-	-	-	-	13
Puri	RY	OFC	RYH	Honey bee keeping	1	1	-	-	1	-	-	-	-	19
Puri	FW	OFC	FIS	Composite fish culture	1	1	1	8	-	14	-	-	-	2
Puri	FW	OFC	FIS	Stocking and post stocking pond management	1	1	-	-	2	-	-	-	-	23
Puri	FW	OFC	FIS	Fish disease and their management	1	1	1	-	2	-	-	-	-	22

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		
Puri	FW	OFC	FIS	Water quality management of fish pond	1	1	1	-	1	-	-	-	23	-
Puri	FW	OFC	FIS	Integrated fish farming	2	2	2	-	11	-	-	-	32	-
Puri	RY	OFC	RYH	Prestocking pond management	1	1	-	-	-	-	-	-	15	-
Puri	RY	OFC	RYH	Repeated stocking and harvesting method of pisciculture	1	1	-	-	-	-	-	-	20	-
Puri	RY	OFC	RYH	Fry and fingerlings rearing	1	1	-	-	2	-	-	-	13	-
Puri	RY	ONC	RYH	Ornamental fisheries	1	1	-	-	4	-	-	-	6	-
Puri	RY	ONC	RYH	Fish cum duck cultivation	1	1	-	-	-	-	-	-	20	-
Puri	IS	OFC	EXP	Seed production of carp	1	1	7	1	-	-	-	-	6	-
Puri	FW	OFC	AEG	Use of axial flower thresher	1	1	7	-	2	-	-	-	11	-
Puri	FW	OFC	AEG	Production of small tools	2	2	-	-	4	-	-	-	41	-
Puri	FW	OFC	AEG	Repair and maintenance of power tills	1	1	-	-	1	-	-	-	24	-
Puri	FW	OFC	AEG	Use of bullock drawn puddler	1	1	-	-	3	-	-	-	22	-
Puri	FW	OFC	AEG	Repair and maintenance of tractor	1	1	1	-	2	2	-	-	5	15
Puri	FW	OFC	AEG	Use of plastics as mulching material	1	1	3	1	1	-	-	-	21	-
Puri	FW	OFC	AEG	Maintenance of shelf propelled vertical conveyer reaper	1	1	-	-	1	-	-	-	22	2
Puri	FW	OFC	AEG	Use of rice transplanter	1	1	-	-	20	-	-	-	-	-
Puri	RY	OFC	RYH	Use of plastics as mulching material for agriculture	1	2	-	-	-	-	-	-	25	-
Puri	RY	OFC	RYH	Paneer preparation	1	1	-	-	-	4	-	-	-	21
Puri	RY	OFC	RYH	Repair and maintenance of farm implements	1	1	1	-	3	-	-	-	6	-
Puri	IS	OFF	EXP	Drip and sprinkler irrigation	1	1	3	1	2	-	-	-	21	-
Puri	IS	OFF	EXP	Maintenance of drip irrigation system	1	1	4	2	-	-	-	-	7	12
Puri	FW	OFC	LPM	Animal feed management for enhancing milk production	1	1	2	-	-	-	-	-	23	-
Puri	FW	OFC	LPM	Disease control and management of domestic animals	1	1	-	-	3	-	-	-	27	-
Puri	FW	OFC	LPM	Deworming of cows	1	1	-	-	12	0	-	-	13	-
Puri	FW	OFC	SFM	Technique of soil sample collection	1	1	-	-	13	11	-	-	-	1
Puri	FW	OFC	SFM	Integrated nutrient management in rice	2	2	1	-	6	-	-	-	43	-

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		
Puri	FW	OFC	SFM	Green manuring in rice	1	1	-	-	1	-	-	-	24	-
Puri	FW	OFC	SFM	Crop residue management	1	1	-	-	1	-	-	-	24	-
Puri	FW	OFC	SFM	Management for increasing urea efficiency in lowland rice	1	2	-	-	-	-	-	-	25	-
Puri	FW	OFC	SFM	Fertilization recommendation on basis of soil test value	1	1	8	-	2	-	-	-	15	-
Puri	FW	OFC	WOE	Use of bhindi plucker to reduce drudgery of farm women	1	1	-	-	-	1	-	-	-	19
Puri	FW	OFC	WOE	Value addition of mango	1	1	-	-	-	-	-	-	-	25
Puri	FW	OFC	WOE	House hold food security	1	1	-	-	-	2	-	-	-	18
Puri	FW	OFC	WOE	Income generation activity through mushroom cultivation	1	1	-	-	-	29	-	-	-	1
	FW	OFC	WOE	Value addition of milk	1	2	-	-	-	-	-	-	-	25
Puri	FW	OFC	WOE	Planning, layout and crop rotation of nutritional garden	1	2	-	-	-	3	-	-	-	27
Puri	FW	OFC	WOE	Income generating activities for employment of rural women	1	2	-	-	-	30	-	-	-	-
Puri	FW	OFC	WOE	Storage loss minimization technique	1	1	-	2	-	-	-	-	-	23
Puri	FW	OFC	WOE	Preparation of fish pickle and dried fish	1	1	-	-	-	25	-	-	-	-
Puri	RY	OFC	RYH	Paddy straw mushroom cultivation	1	2	-	1	-	1	-	-	-	23
Puri	RY	OFC	RYH	Mushroom production	1	2	-	2	-	3	-	-	-	20
Puri	RY	OFC	RYH	Preparation of badi, papad, pickle	1	2	-	1	-	2	-	-	-	22
Puri	IS	OFC	EXP	Gender mainstream through SHGs	1	1	-	6	-	-	-	-	-	19
Puri	IS	OFC	EXP	Household food security through nutritional garden, vermicompost, mushroom cultivation	1	1	-	3	-	1	-	-	-	13
Puri	IS	ONC	EXP	Household food security through nutritional garden	1	1	-	-	-	3	-	-	-	12
Puri	IS	ONC	EXP	Preparation of low cost nutritious diet for preschool children	1	1	-	2	-	-	-	-	-	13
Puri	FW	OFC	OTH	Paddy cum fish culture	1	1	-	-	3	-	-	-	-	17
Puri	FW	OFC	OTH	Fish cum horticulture farming	1	1	-	-	2	1	-	-	-	16
Puri	FW	OFC	HOT	Production & management technique of tuber crops	2	2	4	-	10	-	-	-	36	-

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		
Puri	FW	OFC	HOV	Scientific method of seedling raising in Brinjal & Chilli	1	1	3	-	-	-	-	-	22	-
Puri	FW	OFC	HOV	Nursery raising for winter vegetables	1	1	-	-	1	-	-	-	24	-
Puri	FW	OFC	HOS	Production & management technology of spices	1	1	-	-	-	1	-	-	1	23
Puri	FW	OFC	HOF	Production & management technology of Banana(Patakapura)	1	1	20	-	-	-	-	-	5	-
Puri	FW	OFC	HOF	Scientific method of Banana cultivation	1	2	4	-	-	-	-	-	21	-
Puri	FW	OFC	HOF	Scientific method of Papaya cultivation	1	2	3	-	6	-	-	-	14	2
Puri	FW	OFC	HOV	Scientific method of Potato cultivation	1	2	15	-	-	-	-	-	10	-
Puri	FW	OFC	HOV	Scientific method of Chilli cultivation	1	2	1	1	-	-	-	-	12	11
Puri	RY	OFC	RYH	Planting material production in plantation crop	1	1	5	-	-	-	-	-	15	5
Puri	IS	OFC	EXP	Flower cultivation (Marigold, Rose)	3	3	4	6	1	1	-	-	22	23
Puri	IS	ONC	EXP	Flower cultivation (Marigold, Rose)	1	1	4	2	-	1	-	-	10	8
Puri	FW	OFC	CBD	Entrepreneurial development of farmers and youth	2	2	19	-	1	-	-	-	30	-
Puri	FW	OFC	CBD	Formation and management of SHG	1	1	-	2	-	-	-	-	8	15
Puri	FW	OFC	CBD	Leadership development	2	2	1	1	7	-	-	-	32	9
Puri	IS	OFC	EXP	Information networking among farmers	1	1	3	3	1	-	-	-	9	9
Puri	IS	OFC	EXP	Group dynamics and farmers organization	1	1	4	1	3	-	-	-	17	-

**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	Rearing of fry and fingerlings	enterprise	Fry and fingerling rearing	3	4	-	-	-	6	-
Puri	Package practices of fish cum horticulture	enterprise	Integrated fish farming	3	-	-	-	-	10	-
Puri	Preparation of prawn pickle and fish pickle	enterprise	Value addition of low cost marine fishes	3	-	10	-	-	-	-
Puri	Mushroom production	enterprise	Mushroom production	5	-	5	-	-	-	5

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

**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)	Duration (days)	No. of courses	No. of Participants			Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		
							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	Training on mushroom cultivation	25	25	80	-	1.2	-	4100	Area expanded up to 30 members of 3 SHGs
Puri	Training on preservation of fruits and vegetables	14	45	82	46	40	40250	31400	Adoption (%): 60%,
Puri	Management of major insects(RPW,RB) in coconut (F/FW)	25	44	75	39	45	31,200	42,750	1. Area expanded (ha) - 11 2. No. of farmers adopted (no.) -21 3. % change in knowledge, production & Income 70.45, 15.38, 37.01
Puri	Integrated management of diseases in vegetables (IS)	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

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	Cultivation of Honeybee (RY)	20	42	68	.04	.13	750	2500	1. Area expanded (no) - 15 2. No. of farmers adopted (no.) - 14 3. % change in knowledge, production & Income 61.9, 225, 233
Puri	SRI method of Rice cultivation (F/FW)	25	40	75	45	60	36,000	57,000	1. Area expanded (ha) - 200 2. No. of farmers adopted (no.) - 80 3. % change in knowledge, production & Income 87.5, 33.3, 58.3
Puri	Vermicompost(RY)	25	36	70	1.0	2.5	300	1250	1. Area expanded (no) - 60 2. No. of farmers adopted (no.) - 80 3. % change in knowledge, production & Income 94.4, 150, 316
Puri	INM in Rice (IS)	13	40	90	42	50	33,600	47,500	1. Area expanded (ha) - 120 3. No. of farmers adopted (no.) - 300 3. % change in knowledge, production & Income 125, 19.04, 41.3
Puri	Nursery bed preparation & management(F/FW)	25	52	75	205	262	61,000	78,000	1. Area expanded (ha) – 5 2. No. of farmers adopted (no.) - 20 3. % change in knowledge, production & Income 44, 27.8 16.39
Puri	Nursey management of horticultural crops(RY)	25	49	95	195	257	63,000	87,000	1. Area expanded (ha) – 12 2. No. of farmers adopted (no.) - 23 3. % change in knowledge, production & Income 93.8, 31.79 38.09
Puri	Fruit cultivation(F/FW)	83	46	82	240	337	34000	84600	1. Area expanded (ha) –15 2. No. of farmers adopted (no.) - 55 3. % change in knowledge, production & Income 78.2, 40.4 147.05
Puri	Vegetable cultivation(F/FW)	56	50	75	175	225	50400	85600	1. Area expanded (ha) –45 3. No. of farmers adopted (no.) - 42 3. % change in knowledge, production & Income 50, 28.5, 69.8

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	Floriculture (IS)	90	42	73	75	112	55000	80000	1. Area expanded (ha) –35 4 No. of farmers adopted (no.) - 45 3. % change in knowledge, production & Income 73.8, 49.3, 45.4
Puri	Repair & maintenance of farm machinery & implements (FW)	125	35	65	-	-	-	-	1. No. of farmers adopted (no.) -45 2. % change in knowledge – 86%
Puri	Composite fish culture (FW)	100	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 (FW)	45	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)	25	30	65	-	-	-	-	1. No of farmers adopted- 7 3.change in knowledge 116
Puri	Seed production of carps (IS)	14	65	85	-	-	-	-	
Puri	Maintenance of drip irrigation system (IS)	50	38	75	-	-	-	-	2. % change in knowledge –97%
Puri	Production of small tools (FW)	50	24	55	-	-	65000	92000	1.No. of farmers adopted (no.) -5 2.% change in knowledge & Income- 129%, 42%.

## 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				
				M	F	M	F	M	F	Purpose	Topics	Crop Stages
Puri	Field Day	14	14	305	43	90	14	28	5	Dissemination of improved technology	Agricultural and allied subjects	Crop maturity stage, Harvesting stage
Puri	Kisan Mela	2	1	122	54	18	6	8	-	awareness	Latest technology	-
Puri	Kisan Ghosthi	4	4	30	5	22	3	4	-	Dissemination of improved technology	Latest technology	-
Puri	Exhibition	3	3	252	33	49	16	-	-	-	-	-
Puri	Film Show	42	42	603	47	97	9	-	-	awareness	Agricultural technology	-
Puri	Method Demonstrations	-	-	-	-	-	-	-	-	-	-	-
Puri	Farmers Seminar	-	-	-	-	-	-	-	-	-	-	-
Puri	Workshop	-	-	-	-	-	-	-	-	-	-	-
Puri	Group meetings	88	91	605	85	90	22	-	-	awareness	Agricultural activity	
Puri	Lectures delivered as resource persons	8	10	97	43	39	21	-	-	To update the knowledge	Agricultural and allied subjects	-
Puri	Newspaper coverage	8	6	-	-	-	-	-	-	To highlight KVK programmes	Training, FLD, OFT, Kisan mela	-
Puri	Radio talks	24	21	-	-	-	-	-	-	Dissemination of improved technology	Agricultural and allied subjects	-
Puri	TV talks	2	5	-	-	-	-	-	-	Dissemination of improved technology, awareness	Agricultural and allied subjects and KVK activities	-
Puri	Popular articles	6	4	-	-	-	-	-	-	awareness	Agricultural and allied subjects and KVK activities	-
Puri	Extension Literature	8	7	-	-	-	-	-	-	Improved technology	Agricultural and allied subjects	-
Puri	Farm advisory Services	40	28	84	24	32	14	-	-	Dissemination of improved technology, awareness	Agricultural and allied subjects	Different stages of crop
Puri	Scientific visit to farmers field	140	162	1326	40	44	37	-	-	Field visit	Agricultural and allied activities	Different stages of crop
Puri	Farmers visit to KVK	200	154	137	14	3	-	-	-	Field related problems	Agricultural and allied subjects	-
Puri	Diagnostic visits	90	96	183	52	7	2	-	-	Field visit	Agricultural and allied activities	Different stages of crop
Puri	Exposure visits	2	-	-	-	-	-	-	-	-	-	-
Puri	Ex-trainees Sammelan	4	4	61	23	9	7	-	-	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				
				M	F	M	F	M	F	Purpose	Topics	Crop Stages
Puri	Soil health Camp	-	-	-	-	-	-	-	-	-	-	-
Puri	Animal Health Camp	2	2	42	3	5	-	4	-	Animal health check	Vaccination of animal diseases	-
Puri	Agri mobile clinic	-	--	-	-	-	-	-	-	-	-	-
Puri	Soil test campaigns	1	1	23	2	-	-	-	-	Awareness about soil testing	Agriculture and allied subject	Before field preparation
Puri	Farm Science Club convener meet	5	5	77	-	9	-	-	-	Exchange of ideas	Agriculture and allied subject	-
Puri	Self Help Group convener meetings	2	2	-	22	-	8	-	-	Exchange of ideas	Agriculture and allied subject	-
Puri	Mahila Mandals convener meetings	-	-	-	-	-	-	-	-	-	-	-
Puri	Celebration of important days	5	5	172	67	18	13	-	-	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	April –Sep. 2010	Half yearly	500	485
Puri	October – March, 2010	Half yearly	500	220

### 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	Azolla production	D. Jena, H. K. Sahoo, N. Sasmal, M. R. Behera	250
Puri	Leaflet	Scientific method of potato cultivation	B. Mishra, P. K. Nanda, D. Jena	250
Puri	Leaflet	Scientific method of marigold cultivation	B. Mishra, D. Jena	500
Puri	Leaflet	Scientific method of cauliflower cultivation	B. Mishra, D. Jena	500
Puri	Leaflet	Control measures of major diseases in Coconut	P. K. Nanda, D. Jena	250
Puri	Leaflet	Care and maintenance of tractor	B. Mohanta, D. Jena	500
Puri	Leaflet	Freshwater prawn culture	S. Sahu, D. Jena	250

### 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: Nil

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
	Cereals							
	Pulses							
	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	Fruit	Papaya	15.09.10	16.10.10	-	Red lady, East west	Seedling	540	4000	5400	Distributed to farmers
Puri	Vegetable	Drum stick	25.09.10	15.10.10	-	PKM-1	Seedling	50	190	250	Distributed to farmers

### 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	<b>BIOAGENTS</b>	8500 nos. earthworm	-	4250	Distributed to farmers
Puri	<b>BIOFERTILIZERS</b>	20kg vermicompost	-	100	Distributed to farmers
	<b>BIO PESTICIDES</b>				

**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	Soil test	8	8	4	

**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										
Puri										
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							
Puri							
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	16.12.10	39	Developing IFS models in Satyabadi block, Mushroom production in humid chamber and to give importance to value added products of mushroom with quality packaging, Fodder is to be included in the farming system, To cultivate turmeric in coconut orchads, Establishment for pangassius cultivation.

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

KVK Name	No. of messages sent	No. of beneficiary	Major recommendations
		Farmers	Ext. Pers.
Puri	6	889	- Latest information about agriculture and allied subject

**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	State	1,00,000	Groundnut, Green gram	Dumukipur of pipili block, Musunpur of Nimapara block	Demonstration conducted on farmers field
Puri	DRDA	-	-	-	-	
Puri	Zila Panchyat	-	-	-	-	
Puri	Seed village	-	-	-	-	
Puri	NAIP	-	-	-	-	
Puri	Climate Change	-	-	-	-	
Puri	Others (Plz. Specify) NFSM	Central	28,000	Green gram, blackgram	Green gram in vill. Bodadrikilo and Black gram in vill. RENCH sasan of Nimapara block	Demonstration conducted on farmers field

## 16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Puri	30356069907	33,540	12,633	12,633

## 17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Puri	3 <sup>rd</sup> prize in state level exhibition	Institution	DEE, Bhubaneswar	Momentum and merit certificate
Puri	1 <sup>st</sup> prize in poster presentation	Group	Teacher's association, OUAT, Bhubaneswar	Rs. 1000/-
Puri	Best farmers award	Individual	OUAT, Bhubaneswar	
Puri	Participation in National level Innovator meet at mysore, Karnataka	Individual	ICAR, New Delhi	-
Puri	Participation in National level exhibition at NASC, New Delhi	Individual	ICAR, New delhi	-

## 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 7<sup>th</sup> 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 cousin 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:

<b>Vegetables</b>	<b>Productivity (q/ha)</b>	
	<b>Before intervention of KVK</b>	<b>After intervention of KVK</b>
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	Prof. S.S. Nanda, Dean Extension Education, OUAT	3.10.10	Highly appreciated the IFS activities
Puri	Prof. S.S. Nanda, Dean Extension Education, OUAT	16.12.10	Instructed
Puri	Prof. S.S. Nanda, Dean Extension Education, OUAT	29.10.10	Instructed to include vermin compost, mushroom and fruit plant in that unit
Puri	Dr. U. S. Goutam, Zonal Coordinator, Zone VII, ICAR	29.10.10	Appreciated the pond based IFS model and suggested for publication
Puri	Dr. S. R. K. Singh, Sr. Scientist, Zone VII, ICAR	29.10.10	-do-
Puri	Prasad Harichandan, MLA, Satyabadi	14.01.11	
Puri	Dr. S. P. Singh, Programme Facilitator, PDFSR, Modipuram, Meerut, UP	01.02.11	Appreciated KVK activities

**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	1	35	Fruit crops
Puri	Lectures organized	2	86	Fruit cultivation and shrimp framing
Puri	Exhibition	1	200	Important technology related to crop and allied enterprises
Puri	Film show	2	100	Agricultural and allied sectors
Puri	Fair (Kisan mela)	1	200	Agricultural and allied sectors
Puri	Farm Visit	4	121	Sample netting of fish demonstration of pheromone trap in brinjal, demonstration of yellow sticky trap in green gram, demonstration of locally made yellow sticky trap in green gram,
Puri	Diagnostic Practical's	4	-	
Puri	Distribution of Literature (No.)	3	675	Newsletter and leaflets
Puri	Distribution of Seed (q)	-	-	-
Puri	Distribution of Planting materials (No.)	-	-	-
Puri	Bio Product distribution (Kg)	-	-	-
Puri	Bio Fertilizers (q)/ vitamin mineral mixture	25 kg	25	Vitamin mineral mixture to milch cows
Puri	Distribution of fingerlings (No)	-	-	-
Puri	Distribution of Livestock specimen (No.)/Deworming & medicines	1	25	Deworming of cattle and goat
Puri	Total number of farmers visited the technology week		1427	

### 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

Name of KVK	Crops	Area (ha)	Number of beneficiaries
	Oilseeds		
	Pulses		
	Cereals		
	Vegetable crops		
	Tuber crops		
	Fruits		
	Spices		
	Cotton		
	<b>Total</b>		

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
Puri	Seedlings			

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
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) –**

		
Panicles of Ranidhan	G.Nut field after application of Oxyflourfen	Cauliflower at curd initiation stage



Pusa Broccoli KT sec-1 at curd stage



Spraying of Multineem in rice field



Tagging of Tricho-card



Release of fingerlings



zero till drill for sowing of green gram



Preparation of CIFAX