

# **Annual Progress Report Of KVK, BARGARH**

**(Apr' 2011 – Mar' 2012)**



**(Orissa University of Agriculture & Technology)  
Bhubaneswar, Orissa**



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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	
Bargarh	OFTs	15	69	15	69	
Bargarh	FLDs – Oilseeds (activity in ha)	10	33	10	33	
Bargarh	FLDs – Pulses (activity in ha)	10	30	10	30	
Bargarh	FLDs – Cotton (activity in ha)					
Bargarh	FLDs – Other than Oilseed and pulse crops(activity in ha)	13	74	13	74	
Bargarh	FLDs – Other than Crops (activity in no. of Unit/Enterprise)	4	20	4	20	
Bargarh	Training-Farmers and farm women	54	1247	54	1247	
Bargarh	Training-Rural youths	11	117	11	117	
Bargarh	Training- Extension functionaries	9	156	9	156	
Bargarh	Extension Activities					
Bargarh	Seed Production (Number of activity as seeds in quintal)	387.95		387.95		
Bargarh	Planting material ((Number of activity as quantity of planting material in quintal)					
Bargarh	Seedling Production (Number of activity as number of seedlings in numbers)	89000		89000		
Bargarh	Sapling Production (Number of activity as number of sapling in numbers)					
Bargarh	Other Bio- products -Vermicompost	27.5		27.5		
Bargarh	Live stock products					
Bargarh	SAC Meeting (Date & no. of core/official members	09.08.11	35	09.08.11	35	
Bargarh	Newsletters (no.)	2	1000	2	1000	
Bargarh	Publication (Research papers, popular article)	12	3500	12	3500	
Bargarh	Convergence programmes / Sponsored programmes	1	50	1	50	
Bargarh	KVK-ATMA Linkage programme (Number of activities)	12	300	12	300	
Bargarh	Outreach of KVK in the District (No. of blocks, no. of villages)					
Bargarh	Soil sample tested					
Bargarh	Water sample tested					
Bargarh	KMA (No. of messages & beneficiaries)	65	320	65	320	

# 1. GENERAL INFORMATION

## 1.1. Staff Position (as on date)

Name of KVK.	Sanctioned post	Name of the incumbent	Discipline	Highest degree	Subject of Specialization	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Others)
Bargarh	Programme Coordinator	Dr. M.K.Tripathy	Entomology	Ph.D	Entomology	15600-39100 AGP-8000	26630+8000	27-10-09	Permanent	Others
Bargarh	Subject Matter Specialist1	Mr. S..K. Pradhan	Horticulture	MSc (Ag)	Horticulture	15600-39100 AGP-6000	16920+6000	1-10-2009	Permanent	Others
Bargarh	Subject Matter Specialist2	Mrs S. Sahu	Home Science	MSc	Food & Nutrition	15600-39100 AGP-6000	16920+6000	22-12-2009	Permanent	Others
Bargarh	Subject Matter Specialist3	Sri S. K. Sahoo	Agronomy	M.Sc.	Agronomy	15600-39100 AGP-6000	16920+6000	03-12-2010	Permanent	Others
Bargarh	Subject Matter Specialist4	Sri N. C. Barik	Nematology	M.Sc.	Nematology	15600-39100 AGP-6000	16920+6000	30-04-2010	Permanent	Others
Bargarh	Subject Matter Specialist5	Vacant								
Bargarh	Subject Matter Specialist6	Vacant								
Bargarh	Programme Assistant	Vacant								
Bargarh	Farm Manager	Sri B. C. Swain	Agronomy	M.Sc.	Agronomy	9300-34800 (GP-4200)	9300+4200	26-09-2011	Permanent	Others
Bargarh	Computer Programmer	Mr. S.K. Behera	Computer	MCA		9300-34800 (GP-4200)	11940+4200	31-01-06	Permanent	Others
Bargarh	Accountant / superintendent	Vacant								
Bargarh	Stenographer	Vacant								
Bargarh	Driver	Mr. A. Chhanda		Under Matric		PB-1(5200-20200) S-5	5420+1900	23-07-08	Contractual	
Bargarh	Driver	Mr. S. Rout		Under Matric		PB-1(5200-20200) S-5	5420+1900	22-07-08	Contractual	
Bargarh	Supporting staff	Mr. S. Devta		Under Matric		PB-1(4440-7440)S-5	4620+1300	28-07-08	Contractual	
Bargarh	Supporting staff	Mr.O.Khamari		Under Matric		PB-1(4440-7440)S-5	4620+1300	28-07-08	Contractual	

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

Geographical Area (in Sq.Kms)	<b>5837</b>
No. of Subdivisions	<b>2</b> (Bargarh & Padampur)
No. of Tahasils	<b>10</b> (Attabita, Bargarh, Barpali, Bhatli, Bheden, Padampur, Paikmal, Sohella, Bijepur & Gaisilet)
No. of CD Blocks	<b>12</b> (Ambabhona, Attabira, Bargarh, Barpali, Bhatli, Bheden, Bijepur, Gaisilet, Jharbandh, Padampur, Paikmal & Sohella)
No. of Municipalities	<b>1</b> (Bargarh)
No. of N.A.Cs	<b>2</b> (Barpali & Padampur)
No. of Police Stations	<b>14</b> (Ambabhona, Attabira, Bargarh, Barpali, Bheden, Bijepur, Buden, Gaisilet, Jharbandh, Melchhamunda, Padampur, Paikmal & Sohella)
No. Fire Stations	<b>2</b>
No. of Grampanchayat (GP)	<b>248</b>
No. of Revenue Villages	<b>1208</b>
No. Assembly Constituencies	<b>5</b> (123-Padampur, 124-Melchhamunda, 125-Bijepur, 126-Bhatli, 127-Bargarh)

Production of major crops in MT (2008-09)	
Paddy	3097000
Wheat	990
Maize	2220
Green gram	17380
Black gram	5840
Horse gram	570
Sesame	1890
Groundnut	53180
Sunflower	360
Mustard	1440
Potato	2140
Sugarcane	55930

<b>Livestock Population</b>			
Total Livestock	766028	Total Sheep	57915
Total Cattle	486377	Total Goats	175083
Total C.B. Livestock	96388	Total Pigs	8261
Total Female CB Livestock	56937	Total Poultry	449407
Total Buffaloes	38432	Total Ducks	34287

Land utilisation and irrigation status of Bargarh District		
1	Geographical Area (in Ha)	583200
2	Cultivated Area ( in Ha)	348747
	a. High Land	183318
	b. Medium Land	89395
	c. Low Land	76034
3	Paddy Area ( in Ha)	204247
	a. High Land	40614
	b. Medium Land	87599
	c. Low Land	76034
4	a. Irrigated Area ( in Ha) ( in Kharif)	145514
	b. Irrigated Area (in Ha.) ( in Rabi)	83662
5	Non-irrigated Area ( in Ha)	203233
6	Farm families ( in nos) 2001 census	203550
	a. Small Farmers	73819
	b. Marginal Farmers	76639
	c. Big Farmers	53092
7	Agriculture Labourers ( in nos)	247022

### 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)
Bargarh	Jamtikra	2009	Attabira	26	780	130
Bargarh	Dablong	2009	Bhatli	65	1264	205
Bargarh	M.Gandpali	2008	Bijepur	67	1410	237
Bargarh	Patrapali	2012	Bhatli	55	930	168
Bargarh	Mahulpali	2012	Bheden	16	1150	175

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

KVK Name	THRUST AREA
Bargarh	Crop Diversification
Bargarh	Reclamation of degraded land
Bargarh	Integrated Nutrient Management practices
Bargarh	Integrated Disease and Pest Management Practices
Bargarh	Quality seeds and seedlings production
Bargarh	Income generating activities for rural women/ School dropouts
Bargarh	Value addition in seasonal vegetables
Bargarh	Composite Pisciculture
Bargarh	Integrated fish farming
Bargarh	Proper health management of domestic animals & birds
Bargarh	Market and production strategies
Bargarh	Recycling of farm wastes for vermicompost
Bargarh	Farm mechanization
Bargarh	Off season vegetable cultivation
Bargarh	Promotional of nutritional garden
Bargarh	Introduction of suitable varieties with improved packages of practices
Bargarh	Effective use of family labour through need based livelihood option
Bargarh	Command Area Development with proper Irrigation management
Bargarh	Agro forestry in waste land, Soil & water conservation



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

KVK Name	Problem identified	Methods of problem identification
Bargarh	Low yield of oil seed and pulses due to soil acidity	Soil Analysis
Bargarh	Low family income due to mono cropping in rain fed areas	PRA
Bargarh	Imbalance use of manures and fertilizers in vegetables leading to low productivity	Soil Analysis, PRA
Bargarh	Distress sale of fruits and vegetables due to lack of storage facility	PRA
Bargarh	Severe infestation of insect pest and disease of vegetables	Field Visit, Diagnostic survey
Bargarh	Underutilization and low productivity of fish ponds	PRA
Bargarh	Drudgery of farm women	PRA
Bargarh	Low productivity of country birds	PRA
Bargarh	Low yield of rulling paddy var. Swarna(MTU-7029) due to susceptibility to diseases and pest	PRA, Diagnostic Visit
Bargarh	Low productivity of animal resources	PRA
Bargarh	Collar rot in groundnut	FLD, Diagnostic Visit, Farmer Meeting
Bargarh	Underutilization of paddy straw	PRA

## 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	
Bargarh	Kharif-11	Low yield due to moisture stress in upland	Assessment	Varietal Evaluation	Crop	Rainfed	Assessment of yield potential of Sahabhagi dhan in rainfed condition	5	36.5 q/ha	48.5 q/ha	3825	12000	
Bargarh	Kharif-11	Poor/low yield	Assessment	Varietal Evaluation	Crop	Rainfed	Assessment of Groundnut Var. TG-37A in rain fed situation.	3	12.4 q/ha	15.2 q/ha	3700	10300	
Bargarh	Kharif-11	Heavy weed infestation, yield reduction.	Assessment	Weed Managment	Crop	Rainfed	Assessment of Herbicide Imazethapyr 10% SL (DINAMAZ) in Groundnut	4	10.6 q/ha	14.4 q/ha	1200	9400	
Bargarh	Rabi-11-12	Poor/low yield	Assessment	Varietal Evaluation	Crop	Rainfed	Assessment of Black gram variety PU-35	5	7.1 q/ha	9.3 q/ha	7600	13800	
Bargarh	Rabi-11-12	Heavy weed infestation, yield reduction.	Assessment	IWM	Crop	Irrigated	Assessment Herbicide Bispyribac Sodium 10% SC	5	Awaited				
Bargarh	Rabi11-12	Sucking pest like white flies and jassid causes spread of virus diseases like leaf crinkle and YMV in Kharif Blackgram	Assessment	IPM	Crop	Rainfed	Assessment of Imidachloprid against sucking pest of Blackgram during Kharif	5	6.4 q/ha	9.79q/ha	10400	15256	Two sprays of Imidachloprid@3 ml/10lit of water just before flowering and 2 <sup>nd</sup> at pod initiation stage. Weeding before flowering.
Bargarh	Rabi 11-12	sucking pest like white flies causes spread of virus diseases like leaf curl and mosaic	Assessment	IDM	Crop	Irrigated	Assessment of IDM schedule for controlling for controlling leaf curl in Tomato	5	192q/ha	234q/ha	41500	54500	Seed treatment with Imidachoprid and spraying Thiomithoxam @ 5ml/10lit. of water followed by spraying neem oil @5ml/lit.

Bargarh	Rabi11-12	Low yield of Chili due to wilting by root knot nematode	Assessment	IPM	Crop	Irrigated	Assessment of Carbofuran 3G and Neem Cake for root knot nematode management in Chili	5	92.5q/ha	112q/ha	40500	52000	Carbofuran 3G @ 0.3g a.i. per m <sup>2</sup> ( 10g furadon/m <sup>2</sup> ), neem cake @ 500kg/ha
Bargarh	Kharif-11	Low yield of ginger due to use of local varieties which are susceptible to Rhizome rot	Assessment	Varietal Evaluation	Crop	Rainfed	Assessment of ginger variety Suprabha	4	132.4	157.6	121300	165940	Variety Suprabha is very much tolerant to Rhizome rot & yield is better than local var.
Bargarh	Kharif-11	Local var. of Banana having low yield potential and farmer do not practice desucking process regularly	Assessment	Varietal Evaluation	Crop	Irrigated	Assessment of Tissue culture var. Bantala	4	Awaited				
Bargarh	Rabi11-12	More male flower in pumpkin causing yield loss to the farmer	Assessment	INM	Crop	Rainfed	Assessment of Ethral for changing the sex ratio in Pumpkin.	4	Awaited				
Bargarh	Kharif-11	Use of bengalgram powder as feeding material is more expensive	Assessment	Income generating activities	Enterprise	Paddy-Paddy	Assessment of horsegram powder as alternate feeding material for paddy straw mushroom	5	1.45kg/bed	1.42 kg/bed	3600/100 bed	3860/100 bed	Horsegram powder can be used as an substitute feeding material for raising mushroom
Bargarh	Kharif-11	Low yield of bittergourd in nutritional garden due to poor nutrient management	Assessment	Integrated nutrient Management	Bittergourd	Paddy-Vegetable	Assessment of vermicompost on bittergourd production	5	95	113	33400	42900	Apply 2.5 ton/ha of vermicompost on bittergourd for more yield, shiny appearance & better keeping quality
Bargarh	Rabi-11	Drudgery of farm women during Okra plucking	Assessment	Drudgery Reduction	Okra	Paddy-Vegetable	Assessment of drudgery reduction by use of Bhindi plucker	5	840 nos/hr	1200 nos/hr			
Bargarh	Rabi-11	Low income from milk production due to poor feeding management	Assessment	Feeding management	Dairy	Homestead	Assessment of Azolla as supplementary feed stuff for milch cows	5	240 lt./month	270 lt./month	1920 / month	2700 / month	Feed Azolla to the milch cows in a ratio of 1:1 with commercial mixture for more milk yield

## 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 <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> )
Bargarh	Assessment of ginger variety Suprabha	Yield (q/ha)	157.6	132.4	143500	153000		264800	314000		121300	161000		1.83	2.05	
Bargarh	Assessment of Tissue culture var. Bantala	Yield (q/ha)	Awaited													
Bargarh	Assessment of Ethral for changing the sex ratio in Pumpkin.	Yield (q/ha)	Awaited													
Bargarh	Assessment of yield potential of Sahabhagi dhan in rainfed condition	Yield (q/ha)	48.5	36.5	32625	36500		36500	48500		3825	12000		1.11	1.32	
Bargarh	Assessment of Groundnut Var. TG-37A in rain fed situation.	Yield (q/ha)	15.2	12.4	33500	35300		37200	45600		3700	10300		1.11	1.29	
Bargarh	Assessment of Herbicide Imazethapyr 10% SL (DINAMAZ) in Groundnut	Yield (q/ha)	14.4	10.6	30600	33800		31800	43200		1200	9400		1.03	1.27	
Bargarh	Assessment of Black gram variety PU-35	Yield(q/ha)	9.3	7.1	20800	23400		28400	37200		7600	13800		1.36	1.58	
Bargarh	Assessment Herbicide Bispyribac Sodium 10% SC	Yield (q/ha)	Awaited													
Bargarh	Assessment of Imidachloprid against sucking pest of Blackgram during Kharif	Yield (q/ha)	9.79	6.4	13600	19000		22400	34265		10400	15265		1.64	1.80	
Bargarh	Assessment of IDM schedule for controlling for	Yield (q/ha)	234	192	55000	62500		96000	117000		41500	54500		1.74	1.87	

	controlling leaf curl in Tomato																
Bargarh	Assessment of Carbofuran 3G and Neem Cake for root knot nematode management in Chili	Yield (q/ha)	112	92.5													
					52300	60000			92500	112000			40500	52000		1.77	1.86
Bargarh	Assessment of horsegram powder as alternate feeding material for paddy straw mushroom	Yield- Kg/bed	1.42	1.45													
					8000/100 bed	7500/100bed			11600	11360			3600	3860		1.45	1.41
Bargarh	Assessment of vermicompost on bittergourd production	Yield (q/ha)	113	95													
					61600	70100			95000	113000			33400	42900		1.54	1.61
Bargarh	Assessment of drudgery reduction by use of Bhindi plucker	i) Plucking rate no./hr ii) labour mandays/ha iii) heart beat/min	i) 1200 ii) 102 iii) 76	i) 840 ii) 137 iii) 81													
Bargarh	Assessment of Azolla as supplementary feed stuff for milch cows	Yield (lit/month/cow)	270	240													
					2400	2150			4320/m onth	4860/m onth			1920/m onth	2700/m onth		1.8	2.2

### 2.3 Feedback from KVK to Research System

Name of KVK	Feedback
Bargarh	<ol style="list-style-type: none"> <li>1. Successful control schedule of tungro virus infesting paddy in hirakud command area.</li> <li>2. Best suitable gynocious variety of Papaya for the locality.</li> <li>3. Suitable off season coriander variety for the district.</li> <li>4. Suitability of any other herbicides for Kharif groundnut weed control.</li> </ol>

### 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
Bargarh	Paddy	Integrated Pest Management	Alley planting, alternate wetting and drying, reduced nitrogen application & spraying of imida clopid 50g/ac twice at 15 days interval	Training & demonstrations, radio talk, TV talk	12	60	35
Bargarh	Paddy	Integrated Disease Management	Seed treatment with captan 3g/kg, water management, reduced application of nitrogen & application of propiconazole 400ml/ac twice at tillering & PI stage	Training & demonstrations, radio talk, TV talk	8	34	21
Bargarh	Chilli	Integrated Nutrient Management	Application of 0.3g carbofuran/m <sup>2</sup> nursery area & 500kg neem cake/ha in the main field during final land preparation	Training & demonstrations, radio talk, TV talk	4	32	7
Bargarh	Paddy	Varietal Evaluation	Crop management & yield attributing characters	Training, Interactive demonstration	1	5	0.4
Bargarh	Sweet potato	Production and Management	Production management technology	Training, Interactive demonstration	1	5	0.2
Bargarh	Gladiolus	Small Scale income generating enterprises	Cultivation practices	Training & Demonstration	2	5	0.1
Bargarh	Poultry	Evaluation of Breeds	Feeding, rearing & vaccination practices of Banaraja chick	Training & Demonstration	2	5	250 ft <sup>2</sup>
Bargarh	Mushroom (Oyster)	Mushroom cultivation	Scientific guideline of mushroom cultivation	Training & Demonstration	2	10	150 bottles
Bargarh	Mushroom (paddystraw)	Mushroom cultivation	Scientific guideline of mushroom cultivation	Training & Demonstration	2	10	150 bottles
Bargarh	Fisheries	Production and Management	Intervention of IMC with exotic carps with proper stocking density & ratio	Training, Interactive demonstration, field day	2	4	2.0
Bargarh	Fisheries	Production and Management	Rearing of fish fry to fingerlings	Training, Interactive demonstration, field day	2	3	1.5

### 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/Entre prizes	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Bargarh	Crop Production	Arhar	Kharif-11	Intercropping of Arhar : Groundnut in 2:6 ratio with recommended INM	1.0	Arhar-UPAS-120, Groundnut-Smurti	14.6	12.1	20			5		5
Bargarh	Fodder Production	Hybrid Napier	Rabi-11-12	Variety(co-4),Planting method,fertiliser management(50:40:40 kg/ha and 40kg N /ha after each cut), spacing(50cmx50cm), irrigation management.	0.4	CO-4	Awaited					5		5
Bargarh	Crop Production	Hybrid Maize	Rabi-11-12	Seed 15kg/ ha, spacing 30cmx60cm,fertiliser(4 8:24:24 kg/ha) Irrigation at critical stage.	0.4	Ajay	Awaited					5		5
Bargarh	IPM	Paddy	Kharif-11	Application of Cartap hydrochloride granules @ 1kg a.i./ha during transplanting, fixation of traps @ 8nos per ac., releases of T. japonicum @ 16000/ac, need based application of neem oil and safe pesticides	1.0	MTU-7029	49.5	44.2	12	1		3	2	6
Bargarh	IPM	Paddy	Kharif-11	Alley row planting, alternate drying and flooding, need based application of Buprofezin @ 300ml/ac and repetition of 2 <sup>nd</sup> spraying after 10 days interval	1.0	MTU-1001	41.3	35.2	17.3			5		5

Bargarh	IPM	Cotton	Kharif-11	Fixation of traps @ 10 nos per ac. Release of T.chilonis, alternate application of Neem @5ml/lit and Profenophus @ 2.5ml/lit with intermittent spray of HNPV @ 250 LE/ha	3.0	Tulasi	15.5	11.2	38.4	2	3	1	6
Bargarh	IPM	Cabbage	Rabi-11-12	Planting of 2 rows of mustard after 16 rows of Cabbage, alternate application of Carbosulphan @ 2.5ml/lit and neem oil @ 5ml/lit, fixation of traps @ 8 no./acre	1.0	Golden Acre	265	215	23.25			5	5
Bargarh	Varietal Evaluation	Turmeric	Kharif-11	Introduction of high yielding turmeric var. Roma. Rhizome treated with Ridomil MZ	0.2	Roma	61.5 (Dry Rhizome)	51.75 (Dry Rhizome)	19			4	4
Bargarh	Varietal Evaluation	Chilli	Late Kharif-11	Introduction of wilt tolerant var. Utkal Rashmi. Application of Bio-fertiliser & plant protection measures.	0.2	Utkal Rashmi	118.5	107.25	10			4	4
Bargarh	INM	Tomato	Rabi 11-12	Use of bio-fertiliser like Azotobacter, Phosphobacter & all plant protection measures	0.4	Utkal Raja	278.25	244.75	13			4	4
Bargarh	INM	Cauliflower	Rabi11-12	Foliar application of Boron after 30 days of transplanting	0.4	Barkha	254.5	221.3	15	1		5	6
Bargarh	Varietal Evaluation	Onion	Rabi 2011-12	Supply of Agrifound light red var. seedling, application of bio fertilizer & plant protection measures	0.4	Agrifound light red	Awaited			1		3	4
Bargarh	Small scale income generating activities	Elephant foot yam	Kharif-11	Seed treatment, Use of fertilizer at recommended doses	0.2	Gajendra	183	New				5	5



Bargarh	Small scale income generating activities	Mushroom	Kharif-11	Scientific method of bed preparation, plucking & packaging	150 nos	<i>V. volvacea</i>	1.45kg/bed	New			4	4	2	10
Bargarh	Small scale income generating activities	Mushroom	Rabi-11-12	Cleaning cutting of straw, scientific method of bed preparation, plucking	100	<i>P. sajarcaju</i>	2.25kg/bed	New		2		8		10
Bargarh	Small scale income generating activities	Poultry	Rabi-11-12	Housing and feeding management with vaccination practices	100	Banaraja	Continuing			2	2	1		5
Bargarh	Drudgery reduction	Mandwa weeder	Kharif-11	Weeding by mandua weeder	5	Mandua weeder	working capacity 0.020 ha/hr	working capacity 0.017 ha/hr		2	3			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
Bargarh	Arhar	Intercropping of Arhar : Groundnut in 2:6 ratio with recommended INM	Yield (q/ha)	14.6	12.1	32200	31200	43800	36300	11600	5100	1.36	1.15
Bargarh	Hybrid Napier	Variety(CO-4),Planting method,fertiliser management(50:40:40 kg/ha and 40kg N /ha after each cut), spacing(50cmx50cm), irrigation management.	Yield (q/ha)	Awaited									
Bargarh	Hybrid Maize	Seed 15kg/ ha, spacing 30cmx60cm,fertiliser(48:24 :24 kg/ha) Irrigation at critical stage.	Yield (q/ha)	Awaited									

Bargarh	Paddy	Application of Cartap hydrochloride granules @ 1kg a.i./ha during transplanting, fixation of traps @ 8nos per ac., releases of T. japonicum @ 16000/ac, need based application of neem oil and safe pesticides	i) Yield (q/ha) ii) No. of dead hearts / sq. mtr	i) 49.5 ii) NIL	i) 44.2 ii) 5	38500	36000	54450	48950	15950	12950	1.41	1.36
Bargarh	Paddy	Alley row planting, alternate drying and flooding, need based application of Buprofezin @ 300ml/ac and repetition of 2 <sup>nd</sup> spraying after 10 days interval	Yield (q/ha)	41.3	35.2	37750	35600	45430	38720	7680	3120	1.20	1.09
Bargarh	Cotton	Fixation of traps @ 10 nos per ac. Release of T.chilonis, alternate application of Neem @ 5ml/lit and Profenophus @ 2.5ml/lit with intermittent spray of HNPV @ 250 LE/ha	Yield (q/ha)	15.5	11.2	32500	31200	54250	39200	21750	8000	1.66	1.26
Bargarh	Cabbage	Planting of 2 rows of mustard after 16 rows of Cabbage, alternate application of Carbosulphan @ 2.5ml/lit and neem oil @ 5ml/lit, fixation of traps @ 8 no./acre	Yield (q/ha)	265	215	42000	35200	106000	86000	64000	50800	2.52	2.44
Bargarh	Turmeric	Seed rate 20q/ha, seed treatment with Ridomil, use of mulches, appropriate nutrients and plant protection measures	Yield (q/ha)	61.5 (Dry Rhizome)	51.75 (Dry Rhizome)	138625	133250	307500	258750	168875	125375	2.21	1.95
Bargarh	Chilli	Seedling treated with Bavistin, use of biofertiliser and plant protection measures	Yield (q/ha)	118.5	107.25	63600	57600	144950	128700	81325	71100	2.28	2.23

Bargarh	Tomato	Seedling treated with Ridomil, application of 5kg azotobacter and 5 kg phosphobacter / ha, use of plant protection measures	Yield (q/ha)	278.25	244.75	61825	59450	166950	146850	105125	87400	2.70	2.47
Bargarh	Cauliflower	Application of Boron after 30 days of transplanting and repeat application after 15 days	Yield (q/ha)	254.5	221.3	60500	55900	178150	143870	117650	87970	2.95	2.57
Bargarh	Onion	Seedling treated with Ridomil , appropriate use of manure and fertiliser and plant protection measures	Yield (q/ha)	Awaited									
Bargarh	Elephant foot yam	C.V. Gajendra, Seed treatment, Use of fertilizer at recommended doses	Yield (q/ha)	183	New intro.	132000		274500		142500		2.08	
Bargarh	Mushroom	Scientific method of bed preparation, plucking & packaging	Yield (kg/bed)	1.45kg/bed	New intro.	8000/100bed		11600/100bed		3600/100bed		1.45	
Bargarh	Mushroom	Cleaning cutting of straw, scientific method of bed preparation, plucking	Yield (kg/bed)	2.25kg/bed	New intro.	3200/100bed		9000/100bed		6800/100bed		2.8	
Bargarh	Poultry	Housing and feeding management with vaccination practices	Live body wt. in Kg, Egg prodn./annum	Continuing									
Bargarh	Mandua weeder	Weeding by Mandua weeder	i) Working capacity (ha/hr) ii) heart rate (beat/min) iii) Energy expenditure rate(kj/min)	i) 0.020 ii)120 iii)17.6	i) 0.017 ii)110 iii)16.1								

### 3.4 Feedback of the Farmers

Name of KVK	Feedback
Bargarh	<ol style="list-style-type: none"> <li>1. Farm women are happy as they are getting good profit in quick succession through proper utilization of their paddy straw &amp; leisure time.</li> <li>2. Physical stress is comparatively less by mandua weeder as it is lighter in weight than cono weeder</li> <li>3. Application of micro nutrient like Boron increases the yield upto 15% as well as the fruit size.</li> <li>4. Bio-fertilizer like Azotobacter and phosphobacter enhances the yield upto 13% as well as the fruit colour and size are richer than the normal practices</li> </ol>

### 3.5 Training and Extension activities under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Bargarh	Chilli	Field days			
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Bargarh	Turmeric	Field days			
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Bargarh	Tomato	Field days			
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Bargarh	Cauliflower	Field days			
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries	1	25	
Bargarh	Hybrid Maize	Field days			
		Farmers Training	2	50	
		Media coverage			
		Training for extension functionaries			

Bargarh	Paddy	Field days			
Bargarh		Farmers Training	5	125	
Bargarh		Media coverage			
Bargarh		Training for extension functionaries			
Bargarh	Blackgram	Field days			
Bargarh		Farmers Training	1	25	
Bargarh		Media coverage			
Bargarh		Training for extension functionaries			
Bargarh	Groundnut	Field days			
Bargarh		Farmers Training	4	100	
Bargarh		Media coverage			
Bargarh		Training for extension functionaries			
Bargarh	Tomato	Field days	1	50	
Bargarh		Farmers Training	1	25	
Bargarh		Media coverage			
Bargarh		Training for extension functionaries			
Bargarh	Paddy	Field days			
Bargarh		Farmers Training	1	25	
Bargarh		Media coverage			
Bargarh		Training for extension functionaries			
Bargarh	Chilli	Field days			
Bargarh		Farmers Training	1	25	
Bargarh		Media coverage			
Bargarh		Training for extension functionaries			
Bargarh		Field days			
Bargarh		Farmers Training			
Bargarh		Media coverage			
Bargarh		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
<b>Bargarh</b>	Vocational training for farmer & farm women	Group discussion. Feedback as received from line department officials.PRA survey.	03-07-2010,Baipali	25
<b>Bargarh</b>	Training for farmer & farm women	Group discussion. Feedback as received from line department officials.PRA survey.	21-06-2010,M.Gandpali	25
Bargarh	PRA Survey	Through participatory mode	20-12-2010,Jamtikra	25
Bargarh	Bench mark survey	Through participatory mode	14-01-2011.Kulitatukura	20

## 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	Agril. Engineering
PLP	Plant Protection
FIS	Fisheries
PIS	Production of Inputs at site
CBD	Capacity Building and Group Dynamics
AGF	Agro-forestry
OTH	Others
RYH	Rural Youth
EXP	Extension Personnel

## 5. TRAINING PROGRAMMES

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

**Table 5.1.** Details of Training programmes conducted by the KVKs

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants								
							General		SC		ST		Others		
							M	F	M	F	M	F	M	F	
1	2	3	4	5	7	8	9	10	11	12	13	14			
Bargarh	FW	ONC	CRP	Pulse based cropping systems for higher profit	1	1			5					20	
Bargarh	FW	OFC	IWM	Integrated weed management (IWM) in Kharif Groundnut	1	1			9		1			15	
Bargarh	FW	OFC	CRP	Integrated Crop management for Rabi Maize	1	1	2		5		8			10	
Bargarh	FW	OFC	IWM	Integrated weed management (IWM) in Kharif Paddy	1	1	4		3		5			13	
Bargarh	FW	OFC	CRP	Integrated Crop management for Pulses	1	1	4		5		5			11	
Bargarh	FW	OFC	CRP	Suitable fodder crops for Rabi Season.	1	1			6		5			14	
Bargarh	FW	OFC	CRP	Improved cultivation practices for Hybrid Napier	2	2	12		14		10			14	
Bargarh	FW	OFC	CRP	Methods of fodder preservation for off season use	1	1	8		2		3			12	
Bargarh	FW	OFC	CRP	Package and practices of hybrid paddy cultivation	2	2	10		8		18			36	
Bargarh	RY	ONC	CRP	Scientific seed production technique in paddy	1	2			1					14	
Bargarh	RY	ONC	CRP	Scientific seed production technologies for Groundnut	1	2			1		1			13	
Bargarh	IS	OFC	CRP	Integrated weed management in Cereals, Pulses & Oilseed crops.	1	1			5		10			10	
Bargarh	IS	OFC	CRP	Improved techniques of fodder production and its preservation	1	1	14				1				
Bargarh	FW	OFC	PLP	Integrated Pest management for paddy stem borer	1	1	2		4					19	
Bargarh	FW	OFC	PLP	Integrated disease management for control of Blast in Kharif paddy	1	1			3					22	
Bargarh	FW	OFC	PLP	IPM for Kharif paddy	1	1			3					22	
Bargarh	FW	OFC	PLP	Management of BLB in flood effected paddy areas	1	1	8		5	2				10	
Bargarh	FW	OFC	PLP	Management of BPH in Kharif paddy	1	1	1		3		2			19	
Bargarh	FW	OFC	PLP	Management of leaf curl disease in Tomato	1	1	1		2					22	
Bargarh	FW	OFC	PLP	IPM in sugarcane	1	1			1					24	
Bargarh	RY	ONC	PLP	Bee keeping for self employment	1	2	2		2					11	
Bargarh	IS	OFC	PLP	Use of Bio-pesticides for disease pest management	1	1	11		3		1	1		5	
Bargarh	IS	OFC	PLP	IPDM in pulses	1	2		1	1		4	2		15	2
Bargarh	FW	OFC	PLP	Seed treatment techniques in vegetable	1	1	1				1			23	
Bargarh	FW	OFC	PLP	Use of Neem in pest control	1	1					20			5	

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			
Bargarh	FW	OFC	PLP	IPM in Cotton	1	1			4		6			15	
Bargarh	IS	OFC	PLP	Recent advances in implementable pest management technology	1	2	6		2	3	2			8	4
Bargarh	RY	ONC	PLP	Use of ITKs for stored grain pest control	1	2				12					
Bargarh	IS	OFC	PLP	IPDM in paddy	1	1	2				1	1		8	8
Bargarh	FW	ONC	PLP	Use of ITK in stored grain pest control	1	1					7			18	
Bargarh	FW	OFC	PLP	IPM in cucurbits	1	1	1		1		3	1		18	1
Bargarh	FW	OFC	PLP	IPM in Brinjal	1	1	5		3		1			16	
Bargarh	FW	OFC	HOS	Cultivation technique of Ginger	1	1			2					23	
Bargarh	FW	OFC	HOS	Cultivation technique of Chilli	1	1			5					20	
Bargarh	FW	OFC	HOF	Cultivation technique of Banana	1	1			7					18	
Bargarh	FW	OFC	HOV	Integrated Nutreint management in pointed gourd	1	1			3					22	
Bargarh	FW	OFC	HOV	Micronutrient application in cole crops	1	1			2		4			19	
Bargarh	FW	ONC	HOV	INM in Tomato	1	1	2		6		2			15	
Bargarh	FW	OFC	HOS	Cultivation technique of Onion and its storage	1	1			4					21	
Bargarh	FW	OFC	HOV	Use of hormone in cucurbits	1	1			4					21	
Bargarh	FW	OFC	HOV	Off season vegetable cultivation techniques	1	1			3		1			21	
Bargarh	FW	OFC	HOV	Physiological disorder of Cauliflower & its control measures	1	1			5					20	
Bargarh	FW	OFC	HOV	Use of Bio-fertiliser in solanaceous vegetables	1	1			8		3			14	
Bargarh	FW	ONC	HOF	Fruit drop of Mango and its effective control measures	1	1			4					21	
Bargarh	FW	ONC	HOF	Cultivation technique of Papaya	1	1	2		7					16	
Bargarh	FW	OFC	HOV	Use of micro nutrient in summer Okra	1	1			2					23	
Bargarh	FW	OFC	HOV	Cultivation technique of Sweet Corn	1	1								25	
Bargarh	RY	ONC	HOV	Nursery raising techniques in vegetables	1	3			5					10	
Bargarh	RY	ONC	HOF	Planning and layout of orchards	1	3			2					13	
Bargarh	RY	ONC		Commerical cultivation of marigold	1	2			3					12	
Bargarh	IS	OFC	HOV	Use of hormone in vegetable crops	1	1	7	4	1	1	1	1		6	4
Bargarh	FW	OFC	WOE	Usage of vermicompost in Kitchen garden	1	1							10		15
Bargarh	FW	OFC	WOE	Value addition to Mango	1	1							11		14
Bargarh	FW	OFC	WOE	Cultivation of Elephant foot yam	1	1							5		20
Bargarh	FW	OFC	WOE	Paddy straw mushroom cultivation	1	1		5		1			6		13
Bargarh	FW	ONC	WOE	Planning, layout & crop rotation in Kitchen garden	1	1				1			7		17
Bargarh	RY	ONC	WOE	Paddy straw mushroom cultivation for gainful employment	1	2				3			5		7
Bargarh	FW	OFC	WOE	Value addition to mushroom	1	1				1					24



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		
Bargarh	FW	OFC	WOE	Use of different weeders for drudgery reduction	1	1				1				24
Bargarh	FW	OFC	WOE	Storage of cereal and pulses by ITKs	1	1		2				8		15
Bargarh	FW	OFC	WOE	Gender sensitization through WSHGs	1	1						25		
Bargarh	FW	ONC	WOE	Use of azolla as supplementary feed stuff for cows	1	1				6				19
Bargarh	FW	OFC	WOE	Value addition to lemon	1	1		2				4		19
Bargarh	RY	ONC	WOE	Popularization of marigold cultivation for income generation	1	2				15				
Bargarh	IS	OFC	WOE	Preparation of low cost weaning food	1	1		1		6				8
Bargarh	FW	OFC	WOE	Rearing management of dual purpose backyard poultry	1	1				25				
Bargarh	RY	ONC	WOE	Techniques of oyster mushroom cultivation for self employment	1	2								15
Bargarh	FW	OFC	WOE	Value addition to tomato	1	1		2				3		20
Bargarh	FW	OFC	WOE	Oyster mushroom cultivation techniques	1	1		4		5		1		15
Bargarh	RY	ONC	WOE	Preparation of flower bouquet	1	2				8				7
Bargarh	IS	OFC	WOE	Balanced diet for anaemic women	1	1		1		4				10
Bargarh	FW	OFC	WOE	Use of women friendly tools for drudgery reduction	1	1								

**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
Bargarh	Commercial propagation method of fruit plants	Crop	Non availability of good planting material	5	0	0	1	0	9	0
Bargarh	Value addition to fruits & vegetables			5						10

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

Name of KVK	Training title	Self employed after training			Number of persons employed else where
		Type of units	Number of units	Number of persons employed	

**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		
Bargarh	Capacity building programme on vermicompost			FW	1	6	72		48		30		ATMA	30000/-
Bargarh	Capacity building programme on mushroom production			FW	1	6							ATMA	30000/-

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

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/ RY/ IS)	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	
Bargarh	Training on Integrated management of Swarming Caterpillar of Paddy	25	34	66	28	35	22400	28000	1. 54ha 2. Out of 25 trainees, 14 farmers adopted the practice of chemical control of Swarming caterpillar 3. (i) Knowledge:.56% (After-Before)/Before *100 (ii) Production:40% (ii) Income: 25%
Bargarh	Integrated disease management of paddy	25	39	69	32	38	25600	30400	1 . Area expanded 66ha 2 Out of 25 farmer 17 adopted the Technology of IDM 3. Knowledge68%, Production19%. Income 18.75%

Bargarh	Insect pest Management in groundnut	25	23	49	7	9	17500	22500	1 Area expanded 22 ha 2. Out of 25 farmers 14 farmers adpted the technology 3. Knowledge 56%, Production change 29%, Income change 28%
Bargarh	Mgt. of phomopsis fruit rot in brinjal	25	12	37	200	220	1,00,000	110000	1. Area Expanded 14 Ha 2. Out of 25 farmers 13 farmer adopted the technology 3. Knowledge 52%, Production change 10%,. Income 10%
Bargarh	Mgt. of stem borer in paddy	25	43	74	32	36	25600	28800	1. Area expanded 48 ha 2.Out of 25 farmers 18 farmer adopted the technology. 3. knowledge 72%, Production change 12.5%, Change in income 12.5%
Bargarh	Poultry management	25	45	78	100	100	12000	30000	1. Area expanded 35 farm families 2. Out of 25 farmer 17 adopted the technology. .3. Change in income 150%
Bargarh	Paddy straw/Dhingri	50	24	56	New	1.5Kg Per bed (90 Bed		10800	1. Area Expanded 60 farm families 2. Out of 50 farmers 30 adopted the practice. 3. Change in knowledge60%

## 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			
Bargarh	Field Day	4	4	80	64	10	20	2	2			
Bargarh	Kisan Mela	1	1	65	10	20	5					
Bargarh	Kisan Ghosthi	12	9	75	15	20	10	20	15	1Controlling collar rot in G.nut, 2.seed treatment in blackgram,3protection from tungro virus in paddy,4 marketing in mushroom,5 vegetable nursery raising	1Disease management in G.nut 2 ,seed treatment methodology 3 ,vector control methodology, 4 preservation methodology5nursery raising techniques	1Seedling. 2Seed sowing. 3Vegetative stage. 4Harvesting. 5 Sowing
Bargarh	Exhibition	3	3	Mass								
Bargarh	Film Show	10	10	83	11	22	15	14	5			
Bargarh	Method Demonstrations	12	7	62	22	11	7					
Bargarh	Farmers Seminar	1	1	16	7	9	4	3	1			
Bargarh	Workshop	1	1	10	2	5	11	12	5			
Bargarh	Group meetings	15	13	60	34	14	8	4				
Bargarh	Lectures delivered as resource persons	12	10	90	20	32	18	8	3			
Bargarh	Newspaper coverage	5	3	mass								
Bargarh	Radio talks	7	6	mass								
Bargarh	TV talks	6	6	mass								
Bargarh	Popular articles											
Bargarh	Extension Literature	1	1	50	60	40	20					
Bargarh	Farm advisory Services	42	45									
Bargarh	Scientific visit to farmers field	100	90	245	55	70	32					
Bargarh	Farmers visit to KVK	700	700	498	102	52	48					
Bargarh	Diagnostic visits	28	28	125	25	30	8					
Bargarh	Exposure visits	5	5	5								
Bargarh	Ex-trainees Sammelan	4	3	20	15	25	15					
Bargarh	Soil health Camp											
Bargarh	Animal Health Camp	1	1	22	4	8	2					
Bargarh	Agri mobile clinic											
Bargarh	Soil test campaigns											
Bargarh	Farm Science Club conveners meet	4	12	150		100						
Bargarh	Self Help Group conveners meetings	6	6		60		30		20			
Bargarh	Mahila Mandals conveners meetings											
Bargarh	Celebration of important days	3	3	44	26	32	18					

## 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
Bargarh	Newsletter	Spt-dec-2011	200	185
Bargarh	Newsletter	Jan-mar-2012	200	35

### 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
Bargarh		Banya Prapidita Anchala pain roga poka parichalana	Dr. M K Tripathy	200
Bargarh				
Bargarh				
Bargarh				

### 7.3 Details of Electronic Media Produced

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

## 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(Qt)	Unit for quantity of produces (qtl for SD and Nos for PM)	Value (Rs.)	Provided to No. of Farmers
Bargarh	Cereals	Paddy	MTU-7029,MTU-1001	SD	387.95	Qtl	Unprocessed	Sold to OSSCL
Bargarh	Pulses	Arhar	Asha	SD	1.5	Qtl	3750	
Bargarh	Oilseed	Groundnut	Smruti	SD	Standing crop 0.4 ha			
Bargarh	Fruits	mango	Amrapali,Nilam,Banganpali,Langra		11	Qtl	12000	
Bargarh	Spices	Turmeric	Roma	SD	3.0		15000	

KVK Name	Major group/class	Crop	Variety	Type of produce (for Seed produced type hear SD; For Planting Material type here PM)	Quantity(Qt)	Unit for quantity of produces (qtl for SD and Nos for PM)	Value (Rs.)	Provided to No. of Farmers
Bargarh	Oilseed	Sesame	Tilottama		Standing crop 1.0 ha			
Bargarh	Oilseed	Mustard	Parvati		0.5	Qtl	1000	

### 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	
Bargarh	Seedlings	Tomato, Brinjal, Chilli, Onion						89000		17000	

### 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	
Bargarh	<b>BIOAGENTS(Earth worm )</b>				
Bargarh	<b>BIOFERTILIZERS( vermi compost )</b>	27.5	5200	19180	
Bargarh	<b>BIO PESTICIDES</b>				
Bargarh	<b>Mushroom</b>	2.2 qtl	8500	13600	

### 8.4 Livestock and fisheries production

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

## 9. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : YES/NO, Yes Year of establishment : -2006

### 9.1 Details of soil & water samples analyzed so far :

KVK Name	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
K.V.K.Bargarh	Soil sample				
	Water sample				

## 10. Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

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

## 11. Utilization of Farmers Hostel facilities

Accommodation available (No. of beds) :

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)
Bargarh							
Bargarh							
Bargarh							
Bargarh							
Bargarh							
Bargarh							
Bargarh							
Bargarh							

## 12. Utilization of Staff Quarters facilities

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
Bargarh	1992	1994	1	0	

### 13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Bargarh	09-08-11	35	Floriculture, organic farming of vegetables, production of button mushroom, popularisation of Gir breed of cattle, Jamunapari of goat, azolla as animal feed, popularization of seed village; formation of kishak club, adopting IPM through participatory mode, preservation & popularization of good quality high yielding local varieties.

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

KVK Name	No. of messages sent	No. of beneficiary		Major recommendations
		Farmers	Ext. Pers.	
Bargarh	65	320	52	Fertilizer management in paddy, Hormone application in vegetables, Timely pest & disease management, Varietal recommendation etc.

### 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
Bargarh	ATMA	State	60000	Training, Exhibition	Bargarh	
Bargarh	MNREGA					
Bargarh	NHM					
Bargarh	RKVY					
Bargarh	DRDA					
Bargarh	Zila Panchyat					
Bargarh	Seed village					
Bargarh	NAIP					
Bargarh	Climate Change					
Bargarh	Others (Plz. Specify)RKVY	Central	100000	Crop Production		

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

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Bargarh	30163765041	94662	3913	3913



## 17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Bargarh	Sagar Pradhan	State Level Award	OUAT	Certificate

## 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 Story-1

#### **Title : Successful Ginger grower**

**Introduction:** Patrapali, a small village of Bhatli block is famous for its vegetable cultivation in the Bargarh district. The farmer of this village are normally growing vegetables like Tomato, Cabbage, Cauliflower and spices like ginger, turmeric and Chilli etc. in their field along with paddy. Saroj Patra, a young farmer of this village had shown his interest towards ginger cultivation after watching a programme on TV based on profitable ginger cultivation as they were growing local pahadi var in traditional method on a small scale basis. Out of his own interest, he had come to KVK, Bargarh for making a more remunerative one. So KVK has taken an initiative steps towards high yielding Ginger cultivation in this village.

**Intervention:** KVK has provided high yielding var.. Suprabha which is resistant towards Rhizome rot to him through OFT. He has learnt the techniques of Rhizome treatment with fungicide like Ridomil MZ through KVK training programme. KVK scientist strictly instructed him for mulching which is essential for weed control and moisture conservation in soil. He has also followed the timely INM and IPM practices as per the KVK suggestion.

**Output:** He is now able to earn a gross income of Rs 55,000/- by investing Rs 30000/- for ginger cultivation in half acre of land. Besides that he is also storing 5qtls of yield ginger for seed purpose for coming year.

**Outcome:** He is over pleased with this income from ginger cultivation as he could be able to buy a power tiller on subsidy basis through his other crop cultivation cost can be reduced.

**Impact:** After observing the success of Mr. Patra the farmers of this and nearby villages are now self convinced and motivated to adopt the ginger cultivation in larger area.

## Success Story – 2

### **Title: Onion red lighten Pradhan’s House**

- Introduction:** Once Mr. Biswanath Pradhan, a farmer of vill. M. Gandapali mainly depends on paddy cultivation for maintaining his 7 membered family. He faced very difficult situation to meet his daily ends. Later he changed his mind towards crop diversification for animal. He started to grow groundnut & greengram in his 6 acres of land with vegetables in two acres of land. Usually he cultivates vegetable like Brinjal and Pumpkin. But once after attending a training programme of KVK, Bargarh he has again set up his mind for profitable Onion cultivation.
- Intervention:** He started to cultivate Agrifound Dark Red var. of Onion in half acre of land under KVK guidance. He followed the techniques of seed treatment with Bavisatin @ 2gm/Kg. He has also spread chlorothalonil @ 2gm/lit (KAVACH ) and Imidachloprid (CONFIDOR) @ 4.5 ml/10 lit of water to control Onion blotch and thrips respectively as per the KVK suggestion.
- Output:** He totally spent a sum of Rs 30000/- for half acre of onion cultivation. In return he produced 190 quintal/acre. He was able to earn Rs 68500/- by selling the produce at Rs 7/ kg in local and nearby market. In this way he got an net profit of Rs 38500 from half acre of onion cultivation.
- Outcome:** He is very much satisfied with this additional income as he could able to send one of his son to Bargarh town for higher education. He has also not forgotten express his obligation towards KVK efforts for enlightening his house through red onion.
- Impact:** The people of nearby villages have also shown their interest to produce onion on a large scale basis for the coming year after observing the yield and income of Pradhan from Onion cultivation.

## **19. Details of KVK Agro-technological Park**

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

## 20. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	Remarks
Bargarh	Prof. D. P. Ray, Hon'ble Vice Chancellor	27-02-2012	
Bargarh	Prof. S.N. Nanda, DEE	26.02.2012	
Bargarh	Prof. R. K. Raj, JDEE, DEE, OUAT	09.08.2011	

21. Status of KVK Website: Available/Not Available      **Available**

[www.kvkbargarhdpdvii.org](http://www.kvkbargarhdpdvii.org)

## 22. E-CONNECTIVITY

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

## 23. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Bargarh	Gosthies	7	140	
Bargarh	Lectures organized	5	120	
Bargarh	Exhibition			
Bargarh	Film show	3	150	
Bargarh	Fair			
Bargarh	Farm Visit	6	30	
Bargarh	Diagnostic Practical's	5	30	
Bargarh	Distribution of Literature (No.)	100	100	
Bargarh	Distribution of Seed (q)	5kg	10	
Bargarh	Distribution of Planting materials (No.)	250	5	
Bargarh	Bio Product distribution (Kg)	50 kg	10	
Bargarh	Bio Fertilizers (q)			
Bargarh	Distribution of fingerlings (No)			
Bargarh	Distribution of Livestock specimen (No.)			
Bargarh	Total number of farmers visited the technology week	50	50	

## 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	202.20	630
	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	5	119
	Disease management		
	Feed and fodder technology		
	Poultry management		

Animal health camps organised

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

Seed distribution in drought hit states

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

## Seedlings and Saplings distributed

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

## Bio-control Agents

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

## (e) Bio-Fertilizer

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

## (f) Verms Produced

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

## (g) Large scale adoption of resource conservation technologies

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






## (h) Awareness campaign

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

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

[www.kvkbargarhdpdvi.org](http://www.kvkbargarhdpdvi.org)

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

		
<p>Assessment of yield potential of Sahabhagi dhan in rainfed condition</p>	<p>Assessment of Groundnut Var. TG-37A in rain fed situation.</p>	<p>Assessment of Herbicide Imazethapyr 10% SL (DINAMAZ) in Groundnut</p>
		
<p>Assessment of Black gram variety PU-35</p>	<p>Assessment of Imidachloprid against sucking pest of Blackgram during Kharif</p>	<p>Assessment of IDM schedule for controlling leaf curl in Tomato</p>





**Assessment of Ginger variety “Suprabha”**



**Assessment of Tissue Culture Banana var. Bantala**



**Assessment of Ethrel for changing the sex ratio in Pumpkin**



**Assessment of horse gram powder as alternative feeding material for paddy straw mushroom production**



**Assessment of vermi compost on bitter melon production**



**Assessment of drudgery reduction by using lady's finger plucker**





**Assessment of Azolla as supplementary feed stuff for milch cows**



**Arhar Groundnut intercropping system for rainfed areas**



**Bio intensive pest management strategy for yellow stem borer infesting Kharif paddy**



**Bio intensive pest management of Boll worm of Cotton**



**Management of DBM in cabbage**



**Improved cultivation techniques of turmeric**





Introduction of wilt resistant chilli var. "Utkal Rashmi"



Effect of Bio-fertilizer in tomato



Effect of Boron in Cauliflower



Popularisation of Onion var. Agrifound Light Red



Introduction of elephant foot yam



Paddy straw mushroom cultivation





Oyster mushroom cultivation



Rearing management of Banaraja birds



Use of mandwa weeder for drudgery reduction of farm women



FLD on Oilseed-Groundnut var. Smruti



FLD on Pulse- Arhar



FLD on Oilseed – Mustard



**FLD on Pulse (NFSM) – Blackgram var. PU-35**



**Visit of Dignitaries from US Embassy, New Delhi**



**Value addition of Mushroom – Mushroom Badi**



**Diagnostic Visit to damaged paddy nursery**



**Deworming during Animal Health Camp**



**Kissan Mela cum Exhibition at Campus**