

ANNUAL PROGRESS REPORT 2012-13



KRISHI VIGYAN KENDRA, BARGARH
(ORISSA UNIVERSITY OF AGRICULTURE & TECHNOLOGY, BHUBANESWAR)



Contents

Sl. No.	Particular	Page No
	Summary of Annual Report during 1 st April 2012 to 31 st March 2013	
1	General Information	6
2	On Farm Testing	11
3	Frontline Demonstrations	14
4	Feedback System	19
5	Training programmes	21
6	Extension Activities	27
7	Production and supply of Technological products	28
8	Activities of Soil and Water Testing Laboratory	30
9	Rainwater Harvesting System	30
10	Kisan Mobile Advisory	30
11	Details of SAC Meeting	30
12	Literature to be Developed/Published	30
13	Convergence with Agricultural Schemes	31
14	Utilization of Farmer Hostel	32
15	Utilization of Staff Quarter	32
16	Details of KVK Agro-technological Park	32
17	Farm Innovators	33
18	KVK Progressive farmer interaction	33
19	Outreach of KVK	34
20	Technology Demonstrations under TDHPP/Tribal Sub Plan/QPM	34
21	KVK Ring	34
22	Important visitors to KVK	34
23	Status of KVK Website	35
24	Status of RTI	35
25	E-Connectivity (E- Linkage Lab)	35
26	Details of Technology Week Celebrations	35
27	Interventions on Drought Mitigation	36
28	Activities Under NICRA	38
29	Activities under NAIP	40
30	Status of Revolving Funds	40
31	Awards & Recognitions	40
32	Case study / Success Story	40
33	Well labeled photographs of various activities in JPEG format	43

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 mentioning “Additional Information”**
- 9. 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.**

PERIOD – April 2012 to March, 2013
Summary of the activities

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	16	80	12	60	
Bargarh	FLDs – Oilseeds (activity in ha)	10	30	10	30	
Bargarh	FLDs – Pulses (activity in ha)	10	30	20	57	
Bargarh	FLDs – Maize (activity in ha)	12	15	6	15	
Bargarh	FLDs – Other than Oilseed and pulse crops(activity in ha)	8	70	8	40	
Bargarh	FLDs – Other than Crops (activity in no. of Unit/Enterprise)	4	30	3	25	
Bargarh	Training-Farmers and farm women	58	1450	37	925	
Bargarh	Training-Rural youths	10	150	10	145	
Bargarh	Training- Extension functionaries	7	105	7	167	
Bargarh	Extension Activities	1139			825	
Bargarh	Seed Production (Number of activity as seeds in quintal)	720		346.4+ Rabi produce yet to be harvested		
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)	50000		52200		
Bargarh	Sapling Production (Number of activity as number of sapling in numbers)	600				
Bargarh	Other Bio- products (No. of quantity)	6000kg		5180kg		
Bargarh	Live stock products (Banaraja Chicks)	100				
Bargarh	Activities of Soil and Water Testing Laboratory	150				
Bargarh	Rainwater Harvesting System					
Bargarh	Kisan Mobile Advisory (KVK-KMA)	160		102	412	
Bargarh	SAC Meeting (Date & no. of core/ official members)	2		27.06.12	40	
Bargarh	Literature to be Developed/Published	4		3	750	

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	Convergence programmes / Sponsored programmes	-	-	-	-	
Bargarh	Utilization of Farmers Hostel	-	-	-	-	
Bargarh	Utilization of Staff Quarters	-	-	-	-	
Bargarh	Details of KVK Agro-technological Park	-	-	-	-	
Bargarh	Crop Cafeteria-	-	-	-	-	
Bargarh	Farm Innovators- list of 10 farm innovators from the District	-	-	-	-	
Bargarh	Status of Revolving Funds					
Bargarh	Awards and Recognitions	1	1	1	1	
Bargarh	Case study / Success Story to be developed	2	2	2	2	
Bargarh	KVK Progressive Farmers interaction					
Bargarh	Outreach of KVK in the District (No. of blocks, no. of villages)	10	84	8	74	
Bargarh	Technology Demonstration under Tribal Sub Plan					
Bargarh	KVK Ring			3	3	
Bargarh	Important visitors to KVK	4	4	4	4	
Bargarh	Status of KVK Website					
Bargarh	Status of RTI					
Bargarh	E-connectivity					
Bargarh	Details of Technology Week Celebrations	-	-	-	-	
Bargarh	Interventions on Drought Mitigation	-	-	-	-	
Bargarh	Proposal of NAIP	-	-	-	-	
Bargarh	Proposal of NICRA	-	-	-	-	
Bargarh	Well labeled photographs	-	-	-	-	
Bargarh	Other Activities	-	-	-	-	

1. GENERAL INFORMATION

1.1. Staff Position (31.03.2013)

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	37400-67000 AGP-9000	40240+9000	27-10-09	Permanent	Others
Bargarh	Subject Matter Specialist1	Mrs S. Sahu	Home Science	MSc	Food & Nutrition	15600-39100 AGP-6000	17610+6000	22-12-2009	Permanent	Others
Bargarh	Subject Matter Specialist2	Sri N. C. Barik	Nematology	M.Sc.	Nematology	15600-39100 AGP-6000	16920+6000	30-04-2010	Permanent	Others
Bargarh	Subject Matter Specialist3	Vacant								
Bargarh	Subject Matter Specialist4	Vacant								
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)	9710+4200	26-09-2011	Permanent	Others
Bargarh	Computer Programmer	Mr. S.K. Behera	Computer	MCA		9300-34800 (GP-4200)	12430+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	5870+1900	23-07-08	Contractual	
Bargarh	Driver	Mr. S. Rout		Under Matric		PB-1(5200-20200) S-5	5870+1900	22-07-08	Contractual	
Bargarh	Supporting staff	Mr. S. Devta		Under Matric		PB-1(4440-7440)S-5	4990+1300	28-07-08	Contractual	
Bargarh	Supporting staff	Mr.O.Khamari		Under Matric		PB-1(4440-7440)S-5	4990+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)	5837
No. of Subdivisions	2 (Bargarh & Padampur)
No. of Tahasils	10 (Attabita, Bargarh, Barpali, Bhatli, Bheden, Padampur, Paikmal, Sohella, Bijepur & Gaisilet)
No. of CD Blocks	12 (Ambabhona, Attabira, Bargarh, Barpali, Bhatli, Bheden, Bijepur, Gaisilet, Jharbandh, Padampur, Paikmal & Sohella)
No. of Municipalities	1 (Bargarh)
No. of N.A.Cs	2 (Barpali & Padampur)
No. of Police Stations	14 (Ambabhona, Attabira, Bargarh, Barpali, Bheden, Bijepur, Buden, Gaisilet, Jharbandh, Melchhamunda, Padampur, Paikmal & Sohella)
No. Fire Stations	2
No. of Grampanchayat (GP)	248
No. of Revenue Villages	1208
No. Assembly Constituencies	5 (123-Padampur, 124-Melchhamunda, 125-Bijepur, 126-Bhatli, 127-Bargarh)

Production of major crops in MT (2011-12)	
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

Livestock Population			
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 1.4.2012 to 31.3.2013 (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	Kharmunda	2013	Attabira	35	1030	500
Bargarh	Dablong	2009	Bhatli	65	1264	205
Bargarh	M.Gandpali	2008	Bijepur	67	1410	237
Bargarh	Padhantikira	2009	Bheden	55	930	168
Bargarh	Raisobha	2013	Bhatli	60	2500	620
Bargarh	Patrapali	2010	Bhatli	65	800	326

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	Promotion of nutritional garden
Barg0arh	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

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

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

2. On Farm Testing

2.1 Information about OFT conducted during 2012-13

KVK name	Year/season	Problem diagnose	Category of technology (Assessment / Refinement)	Thematic Area	Crop/enterprise	Farming Situations	Target (ha)	No. of trials	Title of OFT	Results (with parameter)		Net Returns (Rs./ha)	
										Farmer practice T1	Rec. Tech T2	T1	T2
Bargarh	2012-13 Kharif	Low yield in paddy due to moisture stress in rainfed uplands	Assessment	Varietal Evaluation	Crop	Rainfed	0.4	5	Assessment of Rice variety JALDIDHAN 6	24q/ha	32q/ha	4500	7000
Bargarh	2012-13 Kharif	Low yield in cotton due to heavy infestation of sucking pest at the later part of crop growth	Assessment	IPM	Crop	Rainfed	1	5	Assessment of Clothianidin for control of sucking pest in cotton	11.5q/ha	13.2q/ha	8500	12800
Bargarh	2012-13 Kharif	Low yield of Onion due to severe incidence of purple blotch disease	Assessment	IPM	Crop	Rainfed	0.4	5	Assessment of Chlorothalonil for control of Onion purple blotch disease	173q/ha	195q/ha	6920 0	10220 0
Bargarh	Summer-2013	Discolouration of paddy leaves in nursery followed by rotting of roots	Assessment	IPM	Crop	Irrigated	1.0	5	Assessment of Ridomyl MZ 72 for control of Foot Rot diseases in summer paddy	43q/ha	51q/ha	1125 0	18750
Bargarh	2012-13 Kharif	Low yield of Brinjal due to incidence of fruit and shoot borer problem	Assessment	IPM	Crop	Rainfed	0.4	5	Assessment of Chlorantraniliprole for control of Shoot and Fruit borer in Brinjal	240q/ha	292q/ha	6900 0	98000
Bargarh	2012-13 Kharif	Production of tomato is restricted to a very limited area in Kharif though the price is high	Assessment	Varietal Evaluation	Crop	Rainfed	0.4	5	Assessment of Tomato variety "Utkal Kumari" in Kharif	110q/ha	230q/ha	5500 0	11500 0
Bargarh	2012-13 Kharif	Because of lack of suitable varieties Practicing of Kharif Onion is not adopted though the price of Onion is high	Assessment	Varietal Evaluation	Crop	Rainfed	0.4	5	Assessment of Onion variety N-53 during Kharif	107q/ha	142q/ha	4980 0	80000
Bargarh	2012-13 Kharif	Low yield of sweet potato due to cultivation of local varieties	Assessment	Varietal Evaluation	Crop	Rainfed	0.4	5	Assessment of Sweet Potato variety "Kishan"	170q/ha	234q/ha	7150 0	12100 0

Bargarh	2012-kharif	Low income from rearing of local poultry bird	Assessment	Income Generation	Enterprise	-	100 nos	5	Assesment of rainbow rooster breed of poultry	1.75 kg in 6 months, 8 eggs/month	3.25 kg in 6months, 17 eggs / month	1150	3075
Bargarh	2012-kharif	Use of bengalgram powder as feeding material is more expensive	Assessment	Mushroom Production	Enterprise	-	50 bed	5	Assesment of wheat bran as alternative feeding material for paddy straw mushroom	1.4 kg./bed.	1.35 kg./bed.	3500	3700
Bargarh	2012-rabi	Low income from local variety of marigold cultivation	Assessment	Income Generation	Crop	Irrigated	0.2	5	Assesment of Pusa Basanti variety of marigold	130q/ha	145 q/ha	7500	92500
Bargarh	2012-rabi	High degree drudgery on farm women during sugarcane trashing	Assessment	Drudgery Reduction	crop	Rainfed	0.4	5	Assesment of sugarcane stripper for drudgery reduction	37kg/hr 126beats/min	45kg/hr 93beats/min	-	-

2.1a Recommendations of OFTs

Recommendations		
Title of OFT	For Farmers	For Deptt. Personnel
Assessment of Rice variety JALDIDHAN 6	Well performed under rainfed situation, suitable for WCTL zone as <i>Nuakhai</i> harvest	Well performed under rainfed situation, suitable for WCTL zone as <i>Nuakhai</i> harvest
Assessment of Clothianidin for control of sucking pest in cotton	Better than Acephate and is also recommended for cotton growing areas of the district	Better than Acephate and is also recommended for cotton growing areas of the district
Assessment of Chemicals Chlorothalonil for control of Onion purple blotch	Decreased damage of onion bulbs, increases marketability. Two sprays of Chlorothalonil at 10 days interval is recommend after appearance of the disease in summer	Decreased damage of onion bulbs, increases marketability. Two sprays of Chlorothalonil at 10 days interval is recommend after appearance of the disease in summer
Assessment of Ridomil for control of Foot Rot diseases in summer paddy	Early recovery was noticed after 3 days of application of fungicide.	Early recovery was noticed after 3 days of application of fungicide.
Assessment of Chlorantraniliprole 18.5 SC (Coragen) for control of Shoot and Fruit borer in Brinjal	Recommended as alternate spray with neem based pesticides as Chlorantraniliprole (Coragen) develops toughness of fruits and leaves	Recommended as alternate spray with neem based pesticides as Chlorantraniliprole (Coragen) develops toughness of fruits and leaves
Assessment of Tomato variety "Utkal Kumari"	Utkal Kumari is best suited for upland of Bargarh	Utkal Kumari is best suited for

in Kharif	district if planted in pre rabi season	upland of Bargarh district if planted in pre rabi season
Assessment of Onion variety N-53 During Kharif	Suitable for rainfed uplands of Bargarh district to meet market demand during Oct – Nov	Suitable for rainfed uplands of Bargarh district to meet market demand during Oct – Nov
Assessment of Sweet Potato variety “Kishan”	It is an alternate crop to colocassia, can be grown and harvested earlier in uplands during Kharif	It is an alternate crop to colocassia, can be grown and harvested earlier in uplands during Kharif
Assessment of Rainbow rooster breed of poultry	It is capable of sustaining under the backyard rearing condition for dual purpose	It is capable of sustaining under the backyard rearing condition for dual purpose
Assessment of wheat bran as alternative feeding material for paddy straw mushroom	Wheat bran can be used as an substitute feeding material for raising mushroom	Wheat bran can be used as an substitute feeding material for raising mushroom
Assessment of Pusa Basanti variety of marigold	Pinching of the apical shoot thrice at 15 days interval to get better yield	Pinching of the apical shoot thrice at 15 days interval to get better yield
Assessment of sugarcane stripper for drudgery reduction	Working output can be increased and drudgery reduced due to stripping leaves from both sides of canes simultaneously.	Working output can be increased and drudgery reduced due to stripping leaves from both sides of canes simultaneously.

2.2 Economic Performance

KVK name	OFT Title	Parameters			Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)		
		Name and unit of Parameter	Demo	Check	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP(T ₂)	FP (T ₁)	RP (T ₂)		
Bargarh	Assessment of Rice variety JALDIDHAN 6	Yield(q/ha)	32	24	25500	33000	30000	40000	4500	7000	1.17	1.21		
Bargarh	Assessment of Clothianidin for control of sucking pest in cotton	Yield(q/ha)	13.2	11.5	35200	40000	43700	52800	8500	12800	1.24	1.32		
Bargarh	Assessment of Chlorothalonil for control of Onion purple blotch	Yield(q/ha)	195	173	86500	92800	155700	195000	69200	102200	1.8	2.1		
Bargarh	Assessment of Ridomyl	Yield(q/ha)	51	43	42500	45000	53750	63750	11250	18750	1.26	1.41		

	MZ 72 for control of Foot Rot diseases in summer paddy														
Bargarh	Assessment of Chlorantraniliprole 18.5 SC (Coragen) for control of Shoot and Fruit borer in Brinjal	Yield(q/ha)	292	240	92000	98000	161000	196000	69000	98000	1.75	2.0			
Bargarh	Assessment of Tomato variety "Utkal Kumari" in Kharif	Yield(q/ha)	230	162	75000	88000	130000	203000	55000	115000	1.7	2.3			
Bargarh	Assessment of Onion variety N-53 during Kharif	Yield(q/ha)	142	107	65300	72700	115100	152700	49800	80000	1.76	2.1			
Bargarh	Assessment of Sweet Potato variety "Kishan"	Yield(q/ha)	234	170	89000	100000	160500	221000	71500	121000	1.8	2.2			
Bargarh	Assessment of rainbow rooster breed of poultry	1. Body weight in 6 months, 2. Egg production/month	1) 3.25 kg in 6 months, 2) 17 eggs / month	1) 1.75 kg in 6 months, 2) 8 eggs / month	1150/10 poultry	2200/10 poultry	2650/10 poultry	5275/10 poultry	1150	3075	1.76	2.39			
Bargarh	Assesment of wheat bran as alternative feeding material for paddy straw mushroom	kg./bed.	1.35	1.4	7700/100bed	7100/100bed	11200/100bed	10800/100bed	3500	3700	1.4	1.5			
Bargarh	Assesment of Pusa Basanti variety of marigold	Yield(q/ha)	145 q/ha	130q/ha	120000	125000	195000	217500	75000	92500	1.62	1.74			
Bargarh	Assesment of sugarcane stripper for drudgery reduction	1. Work output (kg/hr) 2. Heart rate(beat/min)	1)45kg/ hr 2)115beats/m in	1)37kg/hr 2)126beats/min					-	-	-	-			

3. Frontline Demonstrations

3.1. Follow-up for results of FLDs implemented during previous years (upto 2011-12)

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

KVK Name	Crop/	Thematic Area	Technology demonstrated	Details of popularization	Horizontal spread of technology
----------	-------	---------------	-------------------------	---------------------------	---------------------------------

	Enterprise			methods suggested to the Extension system	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 Pest 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 Pest Management	Application of 0.3g Carbofuran/m ² 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	Production and Management	Crop management & yield attributing characters	Training, Interactive demonstration	2	5	0.4
Bargarh	Sweet potato	Production and Management	Production management technology	Training, Interactive demonstration	4	5	0.2
Bargarh	Gladiolus	Small Scale income generating enterprises	Cultivation practices	Training & Demonstration	3	5	0.1
Bargarh	Poultry	Evaluation of Breeds	Feeding, rearing & vaccination practices of Banaraja chick	Training & Demonstration	5	5	250 ft ²
Bargarh	Mushroom (Oyster)	Mushroom cultivation	Scientific guideline of mushroom cultivation	Training & Demonstration	4	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	3	4	2.0
Bargarh	Fisheries	Production and Management	Rearing of fish fry to fingerlings	Training, Interactive demonstration, field day	4	3	1.5

3.2 Details of FLDs implemented during 2012-13

KVK Name	Thematic area	Name of	Season and	Technology demonstrated	Crop-	Name of	Results (q/ha)	%	No. of farmers
----------	---------------	---------	------------	-------------------------	-------	---------	----------------	---	----------------

		Crop/ Enterprise	year		Area (ha) / Entrep - No.	Variety / Entreprizes	Demo ns	Check	change	SC	ST	OBC	Others	Total
Bargarh	Varietal Evaluation	Paddy	Kharif 2012- 13	Short duration(100 days) drought tolerant ,tolerant to blast,leaf spot,sheath rot & leaf roller, rainfed upland paddy, Avg. yield 40 qtl/ha	1.0	Sahabhagi Dhan	37	23	60	1		4		5
Bargarh	IPM	Groundnut	Kharif 2012- 13	Popularisation of seed treatment with Trichoderma viridae for control of collar rot disease of Groundnut	1.0	TMV-2	11.2	9.8	14.2		1	3	1	5
Bargarh	IPM	Sugarcane	Kharif 2012-13	Popularisation of water traps for management of sugarcane shoot borer	1.0	CO-86032	Await ed					5		5
Bargarh	Integrated Diseases Management	Tomato	Rabi 2012- 13	Management of Phytopthera blight in Tomato	1.0	Utkal Raja	306	272	12.5			3	2	5
Bargarh	IPM	Paddy	Kharif-2012	Management of BPH in Kharif paddy	1.0	MTU-7029	48	43	11.6	1	1	3		5
Bargarh	Varietal Evaluation	Crop	Kharif, 2012-13	The improved cultivation practices of ginger var. Suprabha @ 15q/ha of seed rate with proper INM & plant protection practice	Ginger, 04 ha	Suprabha	220	160	37.5			5		5
Bargarh	Varietal Evaluation	Crop	Rabi 2012- 13	Popularisation of Capsicum var. California Wonder	Capsicum, 0.4 ha	California Wonder	163	New				4	1	5
Bargarh	Income Generation	Duckery	Kharif,2012	Rearing management of Khaki Campbell breed of duck	100 no.	Khaki Campbell	Conti ning				1	4		5
Bargarh	Income Generation	Mushroom	Kharif,2012	Scientific method of raising paddy straw mushroom	100 no.	V.volvacea	1.4kg/ bed	New				10		10
Bargarh	Fodder production	Azolla	Rabi,2012	Use of azolla as an supplementary feed stuff for milch cows	5 no.	A.Pinnata	300lt/ month	270lt/ month	11			5		5
Bargarh	Income Generation	Mushroom	Rabi,2012	Scientific method of raising oyster mushroom	100 no.	P.Sajarcaju	2.3kg/ bed	New		1	3	6		10

3.3 Economic Impact of FLD

KVK Name	Name of Crop/ Enterprise	Technology demonstrated	Parameters			Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	Demo	Check	Demo	Check	Demo	Check	Demo	Check	Demo	Local Check
Bargarh	Paddy	Short duration(100 days) drought tolerant ,tolerant to blast,leaf spot,sheath rot & leaf roller, rainfed upland paddy, Avg. yield 40 qtl/ha	Yield (q/ha)	37	23	35000	25000	46250	28750	16250	3750	1.32	1.15
Bargarh	Groundnut	Popularisation of seed treatment with Trichoderma viridae for control of collar rot disease of Groundnut	Yield (q/ha)	11.2	9.8	36200	32300	50400	44100	14200	11800	1.4	1.36
Bargarh	Sugarcane	Popularisation of water traps for management of sugarcane shoot borer	Yield (q/ha)		Awaited								
Bargarh	Tomato	Management of Phytopthera blight in Tomato	Yield (q/ha)	306	272	89000	84000	306000	272000	217000	188000	3.43	3.2
Bargarh	Paddy	Management of BPH in Kharif paddy	Yield (q/ha)	48	43	43000	40000	60000	53750	17000	13750	1.4	1.34
Bargarh	Ginger	The improved cultivation practices of ginger var. Suprabha @ 15q/ha of seed rate with proper INM & plant protection practice	Yield (q/ha)	220	160	152300	140000	264000	192000	111700	52000	1.73	1.37
Bargarh	Capsicum	Popularisation of Capsicum var. California Wonder	Yield (q/ha)	163	New	70000		195600		125600	New	2.8	
Bargarh	Duckery	Rearing management of Khaki Campbell breed of duck			Continuing								
Bargarh	Mushroom	Scientific method of raising paddy straw mushroom	kg/bed	1.4	New	7700/100bed		11200/100bed		3500 / 100 bed	New	1.4	
Bargarh	Azolla	Use of azolla as an supplementary feed stuff for milch cows	Milk in lt/month	300	270	3100/m onth	2450/ month	5400/m onth	6000/m onth	3550 / month	2300 / month	2.4	1.7

Bargarh	Mushroom	Scientific method of raising oyster mushroom	kg/bed	2.3	New	3400/10 0bed		9200/10 0bed		5800 / 100 bed	New	2.7	
---------	----------	--	--------	-----	-----	-----------------	--	-----------------	--	----------------------	-----	-----	--

3.4 Training and Extension activities under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Bargarh	Ginger	Field days			
Bargarh	Ginger	Farmers Training	1	25	
Bargarh	Ginger	Media coverage			
Bargarh	Ginger	Training for extension functionaries			
Bargarh	Capsicum	Field days			
Bargarh	Capsicum	Farmers Training	1	25	
Bargarh	Capsicum	Media coverage			
Bargarh	Capsicum	Training for extension functionaries			
Bargarh	Blackgram	Field days	1	50	
Bargarh	Blackgram	Farmers Training	1	25	
Bargarh	Blackgram	Media coverage			
Bargarh	Blackgram	Training for extension functionaries			
Bargarh	Paddy	Field days	1	50	
Bargarh	Paddy	Farmers Training	1	25	
Bargarh	Paddy	Media coverage			
Bargarh	Paddy	Training for extension functionaries			
Bargarh	Groundnut	Field days	1	50	
Bargarh	Groundnut	Farmers Training	1	25	
Bargarh	Groundnut	Media coverage	1	Mass	
Bargarh	Groundnut	Training for extension functionaries			
Bargarh	Paddy	Field days	1	50	
Bargarh	Paddy	Farmers Training	1	25	
Bargarh	Paddy	Media coverage			
Bargarh	Paddy	Training for extension functionaries			
Bargarh	Azolla	Field days			
Bargarh	Azolla	Farmers Training	1	25	

Bargarh	Azolla	Media coverage			
Bargarh	Azolla	Training for extension functionaries			
Bargarh	Mushroom	Field days			
Bargarh	Mushroom	Farmers Training	2	50	
Bargarh	Mushroom	Media coverage	1	500	
Bargarh	Mushroom	Training for extension functionaries			
Bargarh	Duckery	Field days			
Bargarh	Duckery	Farmers Training	1	25	
Bargarh	Duckery	Media coverage			
Bargarh	Duckery	Training for extension functionaries			

3.5 Details of FLD on crop hybrids.

Sr.No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.
1.	Bargarh	Maize	Nirmal -51	Nirmal Seeds	15	6

4. Feedback System

4.1. Feedback of the Farmers to KVK

Name of KVK	Feedback			
	Technology appropriations	Methodology used	Benefits of OFT/FLD	Future Adoption
Bargarh	Fixation of proper date of transplanting of Capsicum in the district	Group meeting		

4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
Bargarh	Marigold with high flowering capacity may be developed

Bargarh	Rice bran may be trialed as starter for production of paddy straw mushroom
Bargarh	Uniform and regular shape of tubers may be developed for sweet potato
Bargarh	Onion var. with proper maturing by Nov with intact neck is to be done, methodology to avoid drying of skin during storage is to be evolved
Bargarh	Research to avoid toughness of fruits after application of Chlorantraniliprole 18.5 SC (Coragen) to be developed for shoot and fruit borer management of Brinjal
Bargarh	Effect of sulphur on control of foot rot disease of paddy need to be studied

Abbreviation Used

FW	(A) Farmers & Farm Women
RY	(B) Rural Youths
IS	(C) Extension Personnel
ONC	On Campus Training Programme
OFC	Off Campus Training Programme
M	Male
F	Female
T	Total
Thematic Areas for Training	
CP	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
RY	Rural Youth
IS	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, use abbreviations only.

Table 5.1: 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 to be involved
Bargarh	Farmer/Farm Women	PRA		250
Bargarh	RY	PRA, GD, Questionair		50
Bargarh	In Service	GD, Seminar, Workshop		25

Table 5.2. Details of Training programmes to be conducted by the KVKs.

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16	17
Bargarh	FW	ONC	HOV	Mulching in ginger	1	1	25								25
Bargarh	FW	OFC	HOV	Offseason vegetable cultivation	1	1	25	13		1				11	
Bargarh	FW	OFC	HOV	Use of bio fertilizer in solanaceous vegetables	1	1	25			5				20	
Bargarh	FW	OFC	HOV	INM in brinjal	1	1	25							25	
Bargarh	FW	OFC	HOV	Management of citrus orchard	1	1	25	3				5		17	
Bargarh	FW	OFC	HOO	Cultivation technique of Hybrid papaya	1	1	20			2				18	
Bargarh	FW	ONC	HOT	Cultivation techniques of sweet potato	1	1	25	1						24	
Bargarh	FW	ONC	HOT	Cultivation techniques of onion and its storage	1	1	25	3		6				16	
Bargarh	RY	ONC	HOV	Nursery raising techniques of vegetables	1	3	15			1				14	
Bargarh	FW	ONC	WOE	Cultivation of tuber crop in kitchen garden	1	1	25								25
Bargarh	FW	OFC	WOE	Value addition of mango	1	1	25		3		4		1		17
Bargarh	FW	OFC	WOE	Raising of vegetable seedlings in nursery	1	1	25				4		8		13

Krishi Vigyan Kendra, Bargarh

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16	17
Bargarh	FW	OFC	WOE	Techniques of paddy straw mushroom cultivation	1	1	25		4						21
Bargarh	FW	OFC	WOE	Value addition of chilli	1	1	25		1				6		18
Bargarh	FW	ONC	WOE	Usages of different weeder for drudgery reduction	1	1	25								25
Bargarh	FW	OFC	WOE	Rearing management of dual purpose poultry bird in backyard	1	1	25				6		5		14
Bargarh	FW	OFC	WOE	Value addition to mushroom	1	1	25				1		8		16
Bargarh	FW	OFC	WOE	Use of small agricultural implements for drudgery reduction	1	1	25				1				24
Bargarh	FW	OFC	WOE	Storage of cereal & pulses by use of ITKs	1	1	25		4						21
Bargarh	FW	OFC	WOE	Planning layout and crop rotation in the nutritional garden	1	1	25						7		18
Bargarh	FW	OFC	WOE	Gender sensitization through women self help group	1	1	25								25
Bargarh	FW	OFC	WOE	Cultivation technology of marigold for income generation	1	1	25								25
Bargarh	FW	OFC	WOE	Techniques of oyster mushroom cultivation	1	1	25				2		6		17
Bargarh	FW	WOE	WOE	Use of azolla as supplementary feed stuff for milch cows	1	1	25				1		7		17
Bargarh	RY	ONC	WOE	Paddy straw mushroom cultivation for self employment	1	2	15						2		13
Bargarh	RY	ONC	WOE	Preparation of vermicopost unit For additional income	1	2	15				3		1		11
Bargarh	RY	ONC	WOE	Oyster mushroom cultivation for self employment	1	2	15						4		11
Bargarh	IS	OFC	WOE	Preparation of low cost weaning food	1	1	15				2		1		12
Bargarh	FW	ONC	PLP	IPM for stem borer in paddy	1	1	25			10		2		13	
Bargarh	FW	OFC	PLP	IPM for BPH in Kharif	1	1	25	3		3		2		17	
Bargarh	FW	OFC	PLP	Management of Leaf folder in Kharif paddy	1	1	25	6		7		2		10	
Bargarh	FW	OFC	PLP	IPM for chilli	1	1	25							25	
Bargarh	FW	OFC	PLP	IPM for cole crops	1	1	25	6				9		10	
Bargarh	FW	ONC	PLP	IPM for leaf curl virus management in	1	1	25	4		2		1		18	

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16	17
				Tomato											
Bargarh	FW	OFC	PLP	Management of Tikka & collar rot disease in groundnut	1	1	25	3	2	1	-	-	-	19	
Bargarh	FW	OFC	PLP	IPM for Kharif pulses	1	1	25			7		6		12	
Bargarh	FW	OFC	PLP	IDM for winter vegetable	1	1	25					2		23	
Bargarh	FW	ONC	PLP	Management of storage pest in pulses	1	1	25	9		1		3		12	
Bargarh	FW	OFC	PLP	Management of Onion purple blotch disease	1	1	25			7		3		15	
Bargarh	FW	OFC	PLP	Management of foot rot diseases in Rabi paddy	1	1	25	7		9				9	
Bargarh	FW	OFC	PLP	IPM for Rabi groundnut	1	1	25	1				7		17	
Bargarh	FW	OFC	PLP	IPM for BPH in summer paddy	1	1	25	3		2		1		19	
Bargarh	RY	ONC	PLP	Organic Farming the new way of income generation	1	2	15	7		4		2		2	
Bargarh	RY	ONC	PLP	Production & use of bio pesticides	1	2	15	4		3		4		4	
Bargarh	RY	OFC	PLP	Self employment through LAC cultivation	1	2	15	2		2		3		8	
Bargarh	RY	OFC	PLP	Bee keeping for income generation	1	2	15			3		2		10	
Bargarh	IS	OFC	PLP	Concept of pest surveillance, pest monitoring and ETL fixation	1	2	30	23	3			3	1		
Bargarh	IS	OFC	PLP	Insecticide resistance management	1	2	25	1	2			4	1	15	2
Bargarh	IS	OFC	PLP	Recent advances in biological control	1	2	25	5		6		4		10	
Bargarh	IS	OFC	PLP	IPDM in vegetable	1	2	22	4		3		2		13	
Bargarh	IS	OFC	PLP	New generations pesticides	1	2	25	1	1	7	2	6	2	6	
Bargarh	IS	OFC	PLP	Use of botanicals and pheromones in pest control	1	2	25	1		6		8		10	

Table 5.3. Details of Vocational training programmes for Rural Youth to be 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	Repair, maintenance and operation of all types of plant protection equipments	Enterprise	Income Generation through self employment	5	1		1		13	
Bargarh	Value addition of different fruits & vegetables	Enterprise	Value addition of Seasonal vegetables	5				4		6

Table 5.4. Details of training programme to be 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 5.5. 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/RV/IS)	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		
Bargarh	Use of different tools and implements used for agricultural operation	Farm Mechanisation		FW	16	8	156	65	98	22	42	17	CIAE, Bhopal	62800/-

Table 5.6 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/RV/IS)	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		

Table 5.7 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
			Before	After	Before	After	Before	After	
Bargarh	Training on control of BPH in paddy	25	38	67	30	37	13750	17000	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income 1. 58ha 2. Out of 25 trainees, 16 farmers adopted the practice of chemical control of Swarming caterpillar 3. (i) Knowledge: .76% (After-Before)/Before *100 (ii) Production: 23% (ii) Income: 23.6%

Bargarh	Integrated disease management for Kharif paddy	25	34	56	32	38	12750	16250	<ol style="list-style-type: none"> 1 . Area expanded 64ha 2 Out of 25 farmer 16 adopted the Technology of IDM 3. Knowledge 64%, Production 25%. Income 27.5%
Bargarh	Insect pest Management in groundnut	25	26	49	18	25	11800	14200	<ol style="list-style-type: none"> 1 Area expanded 26 ha 2. Out of 25 farmers 16 farmers adpted the technology 3. Knowledge 88%, Production change 38%, Income change 20%
Bargarh	INM in brinjal	25	41	72	200	220	69000	98000	<ol style="list-style-type: none"> 1. Area Expanded 16 Ha 2. Out of 25 farmers 14 farmer adopted the technology 3. Knowledge 75%, Production change 10%,. Income 42%
Bargarh	Mulching in ginger	25	37	58	160	220	87000	110000	<ol style="list-style-type: none"> 1. Area expanded 8 adopted village 2.Out of 25 farmers 18 farmer adopted the technology. 3. knowledge 56%, Production change 27%, Change in income 67%
Bargarh	Poultry management	25	45	78	3.2 kg body weight, 60 egg per annum	5.5 kg body weight, 160 egg per annum	12000	22000	<ol style="list-style-type: none"> 1. Area expanded 37 farm families 2. Out of 25 farmer 18 adopted the technology. 3. Change in knowledge 73% 4. Change in production 71% 5. Change in income 83%

Krishi Vigyan Kendra, Bargarh

Bargarh	Paddy straw/Dhingri	80	32	58	New	1.4Kg Per bed		11200	<ol style="list-style-type: none"> 1. Area Expanded 65 farm families 2. Out of 80 farmers 60 adopted the practice. 3. Change in knowledge 80%
Bargarh	Marigold cultivation	25	38	62	130	145	30000	37000	<ol style="list-style-type: none"> 1. Area expanded 21 farm families 2. Out of 25 farmer 17 adopted the technology. .3. Change in knowledge 63% 4. Change in production 11% 5. Change in income 23%
Bargarh	Mandwa weeder for drudgery reduction	25	42	76	0.017 ha /hr	0.02 ha/ hr	12000	16000	<ol style="list-style-type: none"> 1. Area expanded 52 ha 2. Out of 25 farmer 21 adopted the technology. .3. Change in knowledge 80% 4. Change in production 17% 5. Change in income 33%

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	82	48	53	17	3	1			
Bargarh	Kisan Mela	1	1	64	11	21	4	2	1			
Bargarh	Kisan Ghosthi	10	10	73	17	22	8	8	2			
Bargarh	Exhibition	3	4	Mass								
Bargarh	Film Show	15	15	90	21	32	18	14	5			
Bargarh	Method Demonstrations	10	8	64	20	11	5	2	1			
Bargarh	Farmers Seminar	1	1	16	7	8	4	3	1			
Bargarh	Workshop	3	1	10	4	5	5	3	1			
Bargarh	Group meetings	12	12	60	54	24	8	14				
Bargarh	Lectures delivered as resource persons	10	10	90	20	32	18	8	2			
Bargarh	Newspaper coverage	5	4	Mass								
Bargarh	Radio talks	6	6	Mass								
Bargarh	TV talks	8	8	Mass								
Bargarh	Popular Articles	1	1	60	24	22	12	5	2			
Bargarh	Extension Literature	2	2	1000								
Bargarh	Farm Advisory Services	100	102	125	88	98	78	12	11			
Bargarh	Scientific visit to farmers field	160	166	179	67	95	37					
Bargarh	Farmers Visit to KVK	330	395	216	49	108	22					
Bargarh	Diagnostic Visits	50	59	73	34	37	18					
Bargarh	Exposure Visits	2	0									
Bargarh	Ex-trainees Sammelan	2	2	20	15	12	3	2	1			
Bargarh	Soil Health Camp	4	0									
Bargarh	Animal Health Camp	2	0									
Bargarh	Agri Mobile Clinic		0									

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	Soil Test Campaigns	2	0									
Bargarh	Farm Science Club conveners meet	6	6	150	82	47	21	5				
Bargarh	Self Help Group conveners meetings	8	8		82		22		16			

7. Production and supply of Technological products

7.1 SEED production

KVK Name	Major group/class	Crop	Variety	Type of produce (for Seed produced type here 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
Bargarh	Cereals	Paddy	Lalat	SD	28	Qtl		
Bargarh		Paddy	MTU-7029	SD	318.4	Qtl		
Bargarh								
Bargarh	Oilseed	Groundnut	Smruti	SD	4.15	Qtl		
Bargarh	Pulses	Blackgram	PU-31	SD	1.51	Qtl		
Bargarh		Arhar	Asha	Non seed	0.5	Qtl		
Bargarh	Cereals	Paddy	Lalat	SD	Standing crop			
Bargarh		Paddy	MTU-1001	SD	Standing crop			
Bargarh	Oilseed	Groundnut	Smurti	SD	Standing crop			
Bargarh		Mustard		Non seed	0.75	Qtl		

7.2 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	Seedling	Onion,	10.9.2012	13.10.12	0.004	N-53 & AFDR	Seedling	20000	1640	2000	
	Seedling	Capsicum,	11.10.2012	02.02.12	0.004	California Wonder Utkal	Seedling	15000	6050	7500	
	Seedling	Tomato,	02.11.2012	04.12.12	0.004		Seedling	10617	2450	3185	
	Seedling	Brinjal	24.1.2013	1.3.13	0.004	Raja BB-44	Seedling	6666	1430	2000	

7.3 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	BIOAGENTS				
Bargarh	BIOFERTILIZERS (Vermicompost)	51.8 qtl			
Bargarh	BIO PESTICIDES				

7.4 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	
Bargarh	Cattle						
Bargarh	Buffalo						
Bargarh	Sheep and Goat						
Bargarh	Poultry						
Bargarh	Fisheries		Fingerlings		1500	3500	
Bargarh	Others (Specify)						

8. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : YES/NO, If yes, then

Year of establishment : - 2007

8.1 Details of soil & water samples analyzed so far :

KVK Name	Type	No. of Samples	No. of Farmers	No. of Villages	Amount released	Resources to be generated
Bargarh	Soil Sample	Nil	Nil	Nil	Nil	
Bargarh	Water Sample					

9. Rainwater Harvesting, if available. NOT AVAILABLE

Training programmes to be 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/ST Participants		
					Male	Female	Total	Male	Female	Total

10. Kisan Mobile Advisory (KVK-KMA)

KVK Name	No. of messages to be sent	No. of beneficiaries		Major recommendations
		Farmers	Ext. Pers.	
Bargarh	102	398	14	

11. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Bargarh	27.06.12	40	

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

12.1 KVK Newsletters

KVK Name	Date of start	Periodicity	Number of copies to be printed	Number of copies to be distributed
Bargarh	Jun-12	Half yearly	250	250
Bargarh	Mar-13	Half yearly	250	250

12.2 Details of Electronic Media Produced

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

12.3 PUBLICATIONS

Category	Number	Date of start	Periodicity	Number of copies to be printed	Number of copies to be distributed
Research Paper	2	Type	Title	N. C. Barik, M. K. Tripathy	
Technical bulletins	2			500	500
i) Improved method of cultivation of groundnut				By Dr. M. K. Tripathy, N. C. Barik and B. C. Swain	
ii) Improved method of cultivation of blackgram & greengram					
Technical reports	1				
Popular article	5				
News paper coverage	5				
Year Planner	1				
Others (pl. specify) Success Story of KVK Bargarh 2009-12	1			Dr. M. K. Tripathy, Mrs S. Sahu	250

13. Convergence with various agricultural schemes (Central & State sponsored)

KVK Name	Name of scheme	Name of Agency	Funds received	Activities	Operational	Remarks
----------	----------------	----------------	----------------	------------	-------------	---------

		(Central/state)	(Rs.)	organized	Area	
Bargarh	ATMA	STATE				
Bargarh	MNREGA					
Bargarh	NHM					
Bargarh	RKVY	CENTRE				
Bargarh	DRDA	STATE				
Bargarh	Zila Panchyat					
Bargarh	Seed Village					
Bargarh	NAIP					
Bargarh	Climate Change					
Bargarh	Others (Plz. Specify)					

14. Utilization of Farmers Hostel.

Accommodation available (No. of beds): 6

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							

15. Utilization of Staff Quarters.

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
Bargarh	1995	1998	Completely Damaged	1	DAMAGED

16. Details of KVK Agro-technological Park – Proposed**a) Have you prepared layout plan, where sent?**

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

b) Details about Technology Park

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

c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1.	Tuber crop for rainfed upland	Elephant foot yam, Yam, Colocacea, Sweet Potato
2.	Commercial Spices crop	Ginger, Turmeric, Onion, Garlic
3.	Orchard crop	Mango, Pineapple, Pomegranate, Litchi
4.	Medicinal Plant	Aloe vera, Stevia, Safed Musli, Amla
5.	Floriculture	Tube rose, Gladioli, Rose, Jasmine
	Area 2.0 acre each 0.4 acre	Area under individual item 0.1 acre

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

Sr. No.	Name of kvk	Name of Farm Innovator	Name of the Innovation	Address of the farmer with Mobile No.
1	Bargarh	Sri Chakradhar Pradhan	Use of Stethoscope in Agriculture	At: Janhapada, Attabira, Mob: 9861697336

18. KVK interaction with progressive farmers-

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers to be participated
1.	May-12	25
2.	Jul-12	25
3.	Sep-12	25
4.	Nov-12	25
5.	Jan-13	25

19. Outreach of KVK

Name of KVK	Number of Blocks	Number of Villages
-------------	------------------	--------------------

	Intensive	Extensive	Intensive	Extensive
Bargarh	6	4	22	52

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, Awareness programmes etc.

20. Technology Demonstration under Tribal Sub Plan on Pulses/ Programme on Harnessing Pulses/ Quality Protein Maize, if applicable.

Sr. No.	Name of crop under Technology demonstration	Area under the programme	No. of Extension Activities	Remarks / Lessons learnt
1.	Blackgram	2.0	1	Training / Timely supply of quality seed
2.	Greengram	5.0	1	Training / Timely supply of quality seed

21. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1.	Bargarh, Sambalpur, Sonapur	Manpower, Machinery, Critical Input	

22. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	Remarks
Bargarh	Dr. Prem Chand, Scientist, ZPD	Oct-2012	Monitoring purpose
Bargarh	Prof. S. S. Nanda, DEE, OUAT	26.06.2012	Advocated for IFS system in district

23. Status of KVK Website: www.kvkbargarhpdvii.org

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1.	Bargarh	02-04-2011	76	1566

24. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals
1.	Bargarh	NIL	NIL

25. E-CONNECTIVITY (ERNET Lab)

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	31.10.12	2	Nil	Nil			
Bargarh	30.04.13	3	Nil	Nil			

26. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Bargarh	Gosthies	2		
Bargarh	Lectures organized	4		
Bargarh	Exhibition	1		
Bargarh	Film show	18		
Bargarh	Fair			
Bargarh	Farm Visit	56		
Bargarh	Diagnostic Practical's	16		
Bargarh	Distribution of Literature (No.)	500		

Bargarh	Distribution of Seed (q)	0.5		
Bargarh	Distribution of Planting materials (No.)	500		
Bargarh	Bio Product distribution (Kg)			
Bargarh	Bio Fertilizers (q)	50		
Bargarh	Distribution of fingerlings (No)			
Bargarh	Distribution of Livestock specimen (No.)			
Bargarh	Total number of farmers visited the technology week	1000		

27. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

Sl. No.	Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries

Major area coverage under alternate crops/varieties

Sl. No.	Name of KVK	Crops	Area (ha)	Number of beneficiaries
		Oilseeds		
		Pulses		
		Cereals		
		Vegetable crops		
		Tuber crops		
		Fruits		
		Spices		
		Cotton		
		Total		

Farmers-scientists interaction on livestock management

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

		Dairy Management		
		Disease management		
		Feed and fodder technology		
		Poultry management		

Animal health camps to be organized

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

Seed distribution in drought hit states

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

Seedlings and Saplings to be distributed

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

Bio-control Agents

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

Bio-Fertilizer

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

Verns Produced

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

Large scale adoption of resource conservation technologies

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

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

28. Proposal of NICRA**1. Technologies to be Demonstrated**

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

2. Proposed Extension Activities in NICRA Village

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

3. Proposed Training Activities in NICRA Village

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

4. Proposed Activities for Fodder Bank

Established (Years)	Capacity	Current Status

5. Proposed Activities for Seed Bank

Established (Years)	Capacity	Current Status

6. Public Representative/District Administration Visited in NICRA Village

Name of Representative/Officer	Designation	Date of Visit

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

8. Good Action Photographs after work progress (step-wise)

29. Proposed works under NAIP (in NAIP monitoring format)**30. Status of Revolving Funds (Rs.)**

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Bargarh	30163765041	446485	38850	38850

31. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Bargarh	Sri Dineswar Sahu, Vill: Purena, Block: Padampur	Felicitated by OUAT in University Foundation Day	OUAT	Nil

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

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

Profitable Vanaraja Rearing – A boon for rural women

It has been recognised that, backbone of the rural poor women economy is backyard poultry rearing. One can able to earn daily income by sale of egg and periodical income by sale of bird with a little investment. However, the profit from rearing of local poultry bird is very low owing to its poor egg yield potential and body weight.

So, KVK, Bargarh has carried out demonstration on rearing management on Vanaraja poultry for higher profit owing to its rapid growth and more egg laying capacity. Through this programme a rural girl Miss Bijli Kumbhar D/o Sri Makardwaja Kumbhar of village Tamparsara was convinced to rear Vanaraja poultry as after leaving school she had engaged herself in local poultry rearing. So, she has been provided with 20 nos of 21 days old chicks and trend on proper feeding and rearing management with timely vaccination schedule.

By following KVK advice she could able to earn a gross income of Rs 12800/- from both meat and egg with a minimum maintenance expenditure of Rs 3500/- for these birds. Being influenced by this success now she has been rearing 200 birds in a unit from which she is earning Rs 7500/- per month. She has nearly saved Rs 70,000/- for her marriage in near future. She is also planned to make a poultry unit with capacity of 500 birds. By observing the success from rapid growth and more egg lying potential of Vanaraja poultry the other local poultry rearers have shown their interest for this profitable Vanaraja breed.



Gaining popularity through Ginger cultivation

Sri Jasobanta Budhia, a progressive farmer of village Raisobha of Bhatli block is normally growing vegetables like Cauliflower, Cabbage, Brinjal and spices like ginger, turmeric, chilli etc. in his field along with paddy and sugarcane. But he was not satisfied with the return of ginger cultivation owing to the poor yield potential of the local regenerated variety. Once after attending a training on profitable ginger cultivation of KVK, Bargarh he had contacted with the KVK to adopt the new technology for making this a more remunerative one.

So, looking towards his interest KVK has provided him Rhizome rot resistant HYV “*Suprabha*” through FLD. He has followed the mulching techniques for weed control and moisture conservation in soil. KVK scientist also advised him to go for seed treatment with fungicides like Ridomil 72 MZ, maintaining appropriate plant population, drip irrigation with timely INM and IPDM practices.

After following KVK guidelines he is able to earn a gross income of Rs 58,000/- by investing Rs 32,000/- for ginger cultivation in half acre of land. By observing his success the other nearby farmers are interested to adopt the ginger cultivation in larger area. So, he is now playing a key role to provide his own produce of this Suprabha var. to the other farmers of the district through ATMA by which he is now gaining popularity among the farming community of the Bargarh district.



Drip irrigation in ginger field



KVK Intervention in farmer field

33. 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>Application of Coragen for control of Shoot & fruit borer in Brinjal</p>	<p>Application of Coragen for control of Shoot & fruit borer in Brinjal</p>	<p>FLD on Pulses (Greengram-Kharif)</p>
		
<p>FLD Oilseed- (Groundnut)</p>		

		
<p>Celebration of World Food Day at KVK campus</p>	<p>Celebration of Women In Agriculture at Naikenpali village of Attabira block</p>	<p>Exhibition at Dhanuyatra Utsav at Bargarh</p>
		
<p>Management of foot rot disease in summer paddy</p>	<p>Popularisation of marigold var. Pusa Basanti</p>	



Demonstration of Oyster mushroom cultivation



Management of Phytophthora disease in tomato



Diagnostic visit to aborted hybrid paddy field of Attabira block



Interaction with stack holders of NGO Debadatta Club, Gaisilet



Diagnostic visit to Cotton field of Padampur block



Popularisation of ginger var. Suprabha as intercrop



Vocational training on plant propagation



Field Day on management of BPH in Kharif paddy

Additional Information**FLD Oilseed & Pulse Programme**

Sl.No.	Title	Intervention	Village	Area (ha)	No. of beneficiaries	FLD yield(q/ha)	Local yield (q/ha)	% increase in yield
Kharif-12								
1.	Improved production technology of Groundnut	Variety- Smruti, Seed treatment with Vitavax power followed by Rhizobium, application of weedicide.	Patrapali	5.0	15	18.75	13.35	40.4%
2.	INM in Kharif greengram	Seed treatment with Vitavax power followed by Rhizobium, PMS application @ 5t/ha. Fertiliser application @ 20:40:40. Micronutrient application @ 15kg/ha	Brahmanipadar	5.0	13	6.75	4.32	56.25
Rabi-12-13								
1.	Improved production technology of Groundnut	Variety- Smruti, Seed treatment with Vitavax power followed by Rhizobium, application of weedicide.	Kharmunda	5.0	15	21.25	14.32	48.39
2.	Improved production technology of Blackgram	Variety-PU31, Seed treatment, need based pesticide application along with balanced fertilizer application.	Bandhapali	5.0	15	6.32	3.95	60

FLD Pulse Programme under NFSM

Sl.No.	Title	Intervention	Village	Area (ha)	No. of beneficiaries	FLD yield (q/ha)	Local yield (q/ha)	% increase in yield
1.	IPM in Kharif greengram (NFSM Kharif)	Installation of sticky trap, application of eco friendly pesticide after appearance of ETL of key pests.	Purena	5.0	10	6.55	4.62	41.77%
2.	Improved cultivation practices of Blackgram (NFSM Rabi)	Use of seed PU-31 alongwith Rhizobium and other seed treatments.	Patrapali	5.0	19	6.34	4.11	54.25%

FLD Maize

Sl.No.	Title	Intervention	Village	Area (ha)	No. of beneficiaries	FLD yield (q/ha)	Local yield (q/ha)	% increase in yield
1.	Popularisation of intercropping of maize in pumpkin during Rabi	Pumpkin: Maize = 1:2,	Kujapali	2.0	5	10.3q – Maize 283q- Pumpkin	20q/ha – Maize	22% increase in income
2.	Popularisation of intercropping of maize in groundnut during Rabi	Groundnut : Maize = 6:2	Kujapali	2.0	5	6.75q- Maize 14.25q- Groundnut	20.4q/ha- Maize	73% increase in income
3.	Popularisation of hybrid maize cultivation during Rabi	Hybrid var. NIRMAL , fertilizer dose 100:50:50	Chakarkend	2.0	5	47q/ha	22q/ha	113%



Intercropping Maize with Cucumber



Intercropping Maize with Groundnut



**Programme Coordinator
KVK, Bargarh**