ANNUAL PROGRESS REPORT

For the Year 2014-15

Krishi Vigyan Kendra, Angul

Zone - VII

Orissa University of Agriculture & Technology
Bhubaneswar, Odisha

REPORTING PERIOD – April 2014 to March 2015

Summary of KVK Annual Report (Quantifiable Achievement) for the year 2014-15

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
1	**On Farm Testing**			
	Proposed OFT	**20**	229	
	On Going OFT			
	Technologies assessed (Completed OFT)	**20**	229	
	Technologies refined			
	On farm trials conducted	**20**	229	
2	**Frontline demonstrations**			
	Proposed Frontline demonstrations	27	201	
	On Going Frontline demonstrations			
	FLDs conducted on crops	16	134	
	Area under crops (ha.)	31.16	134	
	FLD on farm implement and tools	04	20	
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)			
	FLD on Fisheries - Finger lings	01	3	
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermicompost, IFS etc.)	04	15	
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	02	20	
3	**Training programmes**	**No. of Course**	**Duration (days)**	**Participants**
	Farmers /farm women	39	52	1210
	Farm women	09	13	225
	Rural youth	07	14	105
	Extension personnel/ In service	07	14	70
	Vocational trainings	03	15	35
	Sponsored Training			
	Total	65	108	1645
		No. of programmes	**Participants**	
4	**Extension Programmes**	191	4209	
5	**Production of technology inputs etc**	**Qty**	**Beneficiaries (nos.)**	
	Seed (qt.)	36.40	82	
	Planting material produced (nos.)	316000	188	
6	**Livestock**	**Qty**	**Beneficiaries (nos.)**	
	Livestock strains (Nos)			
	Milk Yield - Cow, Buffelo etc. (in liter)			
	Fish (Kg.)			
	Fingerlings (nos.)			
	Poultry- meat(kg.)	308.2	16	
	Ducks (nos.)			
	Chicks etc. (nos.)	330	10	

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
7	**Bio Products**	**Qty**	**Beneficiaries (nos.)**	
	Bio Agents -Earth worm (Kg.)			
	Trichoderma (kg.)			
	Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)	**1200**	15	
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)			
8	**Any other significant achievement in the Zone**	**Nos.**	**Participants/ beneficiaries**	
	Award (Best KVK award and scientist and farmer's award)	4	4	
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	20	-	
	KVK News letter	3	1400	
	SAC Meetings conducted	2	42	
	Soil sample tested	620	620	
	Water sample tested	-	-	
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)			
	KVK-KMA (Message and beneficiaries)	103	3421	
	Convergence programmes	05	100	
	Sponsored programmes			
	KVK Progressive Farmers interaction	10	455	
	No. of Technology Week Celebrations	01	04	
	Attended HRD activities organized by ZPD	04	04	
	Attended HRD activities organized by DES	04	07	
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc.)	04	06	
9	Current status of Revolving Funds (Amt. in Rs.)		82743.00	
10		**No. of blocks**	**No. of villages**	
	Outreach of KVK in the District	8	176	
11		**ICAR**	**SAU**	**Others**
	No. of important visitors to KVK (nos.)	05	08	04
12		**Working (Yes/No)**	**No. of Update**	
	Status of KVK Website	Yes	18	
13		**Application received**	**Application disposed**	
	Status of RTI (nos.)	Nil	Nil	
14		**Query received**	**Query dissolved**	
	Citizen Charter (nos.)	12	12	
15		**Working (Yes/No)**	**No. of programme viewed**	
	E-connectivity			
16		**Filled**	**Vacant**	
	Staff Position	15	01	
17	Workshop/ Seminar/ Conference attended by staff of KVK (nos)	03		
18	Publication received from ICAR /other organization (nos.)	06		
19		**Particulars**	**Organization**	
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)			

GENERAL INFORMATION

1.1. Staff Position (as on date)

Summary of Staff position in KVKs on March, 2014

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Angul	16	1	1	6	6	3	3	6	5	16	15

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specilization	Pay scale	Present pay	Date of joining	Per./Temp.	Category
Angul	Programme Coordinator	Dr.D.Panigrahi	Plant Protection	Ph. D	Entomology	15600-39100	17800	18.02.2014	Permanent	Others
Angul	SMS	Mr.B.C.Dhir	Plant Protection	M.Sc.(Ag)	Entomology	15600-39100	22220	18.02.2014	Permanent	Others
Angul	SMS	Sri B.Mohanty,	Agril. Engg.	M.Tech.	Soil & water conservation Engineering	15600-39100	22220	14.03.2005	Permanent	Others
Angul	SMS	Dr. B.Satpathy	Agril.Extension	Ph.D	Agri. Extension	15600-39100	22220	12.01.2006	Permanent	Others
Angul	SMS	Sri D.S.Kar	Horticulture	M.Sc.(Ag)	Veg. Science	15600-39100	16920	12.12.2012	Permanent	Others
Angul	SMS	Dr.S. .Acharya	Home Science	Ph.D	Home Science	15600-39100	19050	11.05.2010	Permanent	Others
Angul	SMS	Sri T.K.Samant	Agronomy	M.Sc	Agronomy	15600-39100	16920	12.12.2012	Permanent	Others
Angul	Programme Assistant	Mrs.R. P. Misra	Fishery Science	M.FSc	Fisheries Environment	9300-34,800	10130	30.07.2012	Permanent	Others
Angul	Farm Manager	Dr. T. Sarangi	Plant Protection	Ph.D	Nematology	9300-34,800	9300	04.02.2015	Permanent	Others
Angul	Computer Programmer	Mrs P. Mishra	Computer Science	MCA	-	9300-34,800	13450	27.10.14	Permanent	Others
Angul	Accountant / superintendent	Vacant.	-	-	-	-		-	-	-
Angul	Stenographer	Sri.B. Jena	-	Degree	Secretarial practice	5200-20200	7270	13.10.2006	Cont.	Others
Angul	Driver	Mr. S. K. Mishra	-	Degree	Driving	5200-20200	6380	17.06.2013	Cont.	Others
Angul	Driver	Mr. B. Parida	-	10^{th} pass	Driving	5200-20200	6380	14.07.2014	Cont	Others
Angul	Supporting staff	Sri N. Behera	-	8^{th} pass	-	4,440-7,440	5380	30.07.2008	Cont.	Others
Angul	Supporting staff	Sri R. Parida	-	8^{th} pass	-	4,440-7,440	5380	02.08.2008	Cont.	Others

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

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Angul	Mid-Central Table Land Zone	8	209	1272000	78.9%	SC-196109 ST-132994	141041	1.08 ha

1.3. DETAILS OF ADOPTED VILLAGE during the reporting period (Approved by competent Authority in meetings/workshops)

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Angul	Bouligarh	2011	Banarpal	20 km	250	75
Angul	Thelkonali	2012	Kishorenagar	80 km	600	85
Angul	Sandhapal	2013	Chendipada	24 Km	550	75
Angul	Ragudiapada	2013	Angul	25 Km	501	100
Angul	Kantiapasi	2014	Pallahara	75 km	300	85

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

KVK Name	THRUST AREA
Angul	To increase production and productivity of Paddy ,oilseeds and pulses through integrated crop management
Angul	Varietal substitution in vegetables
Angul	To increase water use efficiency through micro-irrigation system in vegetables and fruits
Angul	To mechanize oilseed and pulse cultivation through improved implements
Angul	To enhance farmers income through Innovative extension approaches
Angul	To reduce crop loss through integrated pest & disease management
Angul	Post harvest management of vegetables and fish
Angul	To develop entrepreneurship through capacity building measures
Angul	To reduce drudgery in farm women
Angul	Soil fertility management
Angul	Knowledge and Information Management
Angul	To enhance productivity of fish and goat through scientific approach
Angul	Increase income opportunities for farm women

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

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
Angul	Low yield from upland Paddy	PRA Tools	Bauligarh (Banarpal), (Sandhapal (Chendipada)
Angul	Severe weed problem in upland Paddy and Kharif groundnut	Diagnostic survey	Bouligarh (Banarpal), Sandhapal (Chendipada), Thelkonali (Kishorenagar)
Angul	No 5knowledge about improved varieties in vegetables and spices like bitter gourd, onion, Ivy gourd, tomato	Group Discussion	Bauligarh (Banarpal), Ragudiapada (Angul), Kantiapasi (Pallahara), Sandhapal (Chendipada)
Angul	Lack of knowledge about nutrient management in groundnut paddy, green gram, groundnut, Mustard	Group Discussion	Balijharan (Chhendipada), Ragudiapada (Angul), Sandhapal (Chendipada), Kanteipasi (Pallahara), Balijharan (Chendipada)
Angul	Inefficient use of water	PRA Tools(Transect walk)	Sandhpal (Chendipada), Ragudiapada (Angul), Bauligarh (Banarpal)
Angul	High Drudgery among farmwomen	Group Discussion	Maranda (Angul), Bargaunia,
Angul	Lack of mechanization in agricultural activities	Group Discussion	Ragudiapada (Angul), Sandhapal, Handiguda, Jamunali (Chendipada)
Angul	Lack of capacity building measures among farmers	Group Discussion(Activity clock)	Ragudiapada (Angul), Dhobapal (Talcher), Balijharan (Chhendipada)
Angul	Lack of knowledge about advanced extension methodologies amongst Extension workers	Focused Group Discussion, Questionnaire	DAO, Office Angul, Consultation with line departments.
Angul	Lack of income opportunities for farm women	PRA Tools (Livelihood mapping)	Mahidharpur (Angul), Kumanada, Kaniaipasi (Pallahara)
Angul	Lack of entrepreneurship	Group Discussion	Mahidharpur (Angul), Ragudiapada (Angul),
Angul	Less production of fish	PRA tools, Group discussion	Kisinda (Angul), Durgapur (Chhendipada)
Angul	Yield loss in field crops and vegetables due to insect pest & diseases	PRA tools, Group discussion	Sandhapal (Chendipada), Ragudiapada (Angul), Bauligada (Banarpal), Handiguda (Chendipada)
Angul	Loss of vegetables due to lack of scientific storage practice	PRA tools, Group discussion	Ragudiapada, Thelkonali

2. On Farm Testing

2.1 Information about OFT

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Thematic Area	Crop/ enterprise	Farming Situations	No. of trials	Results (q/ha)			Net Returns (Rs./ha)			Recommendations
										FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3	
Angul	2014	Kharif	Low yield due to use of old variety	Assessment of HYV upland paddy variety (Satyabhama)	Assessment	Varietal Evaluation	Paddy	Rainfed upland	10	28.56	44.38	-	11224	32720	-	The short duration High yielding variety of paddy (Satyabhama: CR Dhan 100) fits well to the existing rainfed upland farming situation with higher tillering capacity and grain yield.
Angul	2014	Kharif	Low yield due to heavy weed infestation at early stage and scarcity of labour	Assessment of weed management in rainfed transplanted paddy	Assessment	Integrated Weed Management	Paddy	Rainfed medium land	10	52.68	47.26	-	34218	35995	-	Pre-emergence application of Bensulfuron methyl(0.6%)+ Pretilachlor(6%) @ 660g/ha at 3-7 DAT effectively controls the most of the weeds during early stages of transplanted paddy
Angul	2014	Rabi	Low yield due to use of old variety	Assessment of HYV of Toria (Sushree)	Assessment	Varietal Evaluation	Toria	Irrigated medium land	10	8.72	12.64	-	6886	17892	-	The high yielding variety of Toria (Sushree:ORT (m) 7-2) fits well to the existing irrigated medium land farming situation for higher grain yield , non shattering and suitable to late sown condition.

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Thematic Area	Crop/ enterprise	Farming Situations	No. of trials	Results (q/ha)			Net Returns (Rs./ha)			Recommendations
										FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3	
Angul	2014	Rabi	Low yield due to improper nutrient management	Assessment of Integrated Nutrient Management in sesamum	Assessment	Integrated Nutrient Management	Sesamum	Irrigated medium land	10	6.42	9.26	-	10682	19796		Application of 75% STDF+ Azospirillum, Azotobacter & PSB @ 4 kg each incubated with 300 kg FYM/ha + Sulphur @ 30kg/ha to rabi sesamum crop sustain the productivity of rice based cropping system in mid central table land zone.
Angul	2014	Kharif	Low income from local cariety tomato cultivation	Assessment of performance of tomato var.Swarna sampada	Assessment	Varietal Evaluation	Tomato	upland irrigated	13	246.9	300	-	74000	100800	-	Tomato var. Swarnasampad is preferred by the farmers due to its rich colour and good keeping quality
Angul	2014	Kharif	Low yield due to use of local variety	Assessment of performance of HYV capsicum California Wonder	Assessment	Varietal Evaluation	Capsicum	Medium land irrigated	13	105	125	-	215000	265000	-	-
Angul	14-15	Rabi	Low yield due to use of local variety	Assessment of performance of marigold var. Ceracola	Assessment	Varietal Evaluation	Marigold	Medium land irrigated	13	124	138	-	173000	196000	-	-
Angul	2014	Kharif	Yield loss in pigeon pea due to pod borer infestation	Assessment of IPM practices for management of pod borer in pigeon pea	Assessment	Integrated Pest Management	Pigeonpea	Rainfed upland	5	8.11	14.25	-	16,250	42750	-	Use of pheromone trap and alternate spraying of neem based pesticide and spinosad effectively control pod borers and increase yield
Angul	2014	Kharif	Yield losses due to yellow stem borer infestation in paddy	Assessment of Indoxacarb for control of yellow stem borer in paddy	Assessment	Integrated Pest Management	Paddy	Rainfed medium land	10	43.52	51.3	-	19576	28090	-	Application of indoxacarb once at tillering stage and 2nd at PI stage effectively controlled YSB in paddy

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Thematic Area	Crop/ enterprise	Farming Situations	No. of trials	Results (q/ha)			Net Returns (Rs./ha)			Recommendations
										FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3	
Angul	2014	Rabi	Yield losses due to thrips infestation in onion	Assessment of IPM practices for management of thrips in onion	Assessment	Integrated Pest Management	Onion	Irrigated medium land	10	220.6	276.8	-	77420	108760	-	Basal application of neem cake and alternate spraying of multineem and imidacloprid effectively controlled thripes
Angul	2014	Rabi	Yield loss in sugarcane due to the attack of cane borers	Assessment of egg parasitoids for management of sugarcane borers	Assessment	Integrated pest management	Sugarcane	Irrigated medium land	10	Continuing	-	-	-	-	-	-
Angul	2014-15	Rabi	Depending on others for farm technology	Assessment of effectiveness printed materials in technology dissemination through farmers club in oilseed cultivation	Assessment	Knowledge Management	Oilseed	All	60 farmers	Continuing	-	-	-	-	-	-
Angul	2014	Kharif	More cost, labour and time in case of manual transplanting of paddy	Assessment of T.O. SCF drill for direct seeding of rice in low land condition	Assessment	Farm Mechanization	Paddy	Rainfed, lowland	5	40	42.2		20000	30250	-	-
Angul	2014-15	Rabi	Low yield of green gram due to improper / more plant population in case of broadcasting	Assessment of T.O. SCF drill for sowing of green gram	Assessment	Farm Mechanization	Green gram	Residual moisture, medium land	5	7.5	9.0		25000	30500	-	-

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Thematic Area	Crop/ enterprise	Farming Situations	No. of trials	Results (q/ha)			Net Returns (Rs./ha)			Recommendations
										FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3	
Angul	2014-15	Rabi	Low yield of mustard due to improper / more plant population in case of broadcasting of seed with more cost of land preparation and use of more seed	Assessment of T.O. ZT drill for sowing of mustard	Assessment	Farm Mechanization	Mustard	Residual moisture, medium land	5	6.2	7.0		28400	36000	-	-
Angul	2014-15	Rabi	Low yield of onion in case of flood irrigation with more weed, disease and pest problem	Assessment of drip irrigation in onion	Assessment	Micro irrigation	Onion	Irrigated medium land	1	120	145		54000	61500	-	-

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	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)
Angul	Assessment of HYV upland paddy variety (Satyabhama)	No of EBT/hill No of filled grains/ panicle Length of panicle	8.6 120.2 22.6	16.2 142.4 24.1	31450	32540	32635	42674	65355	-	11224	32720	-	1.36	2.00	-

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	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)
Angul	Assessment of weed management in rainfed transplanted paddy	Weed intensity /m^2 at 60 DAS Weed dry weight/ m^2(g) at 60 DAT WCE(%) at 60 DAT	9.76 32.87 78.44	11.25 35.52 76.7	41500	39862		75718	75857	-	34218	35995	-	1.82	1.90	-
Angul	Assessment of HYV of Toria (Sushree)	Plant height(cm) No of Primary branches/ plant No of siliquae/ plant No of seeds/siliqua	141.6 3.92 138.52 10.45	153.78 4.68 173.19 12.13	20910	22410		27796	40303	-	6886	17892	-	1.33	1.80	-
Angul	Assessment of INM in sesamum	Plant height(cm) Pr branches /plant No of capsules/ plant No of seeds/ capsules	87.5 3.42 17.34 45.23	91.22 4.61 22.51 52.32	19657	23863		30339	43660	-	10682	19796	-	1.54	1.83	-
Angul	Assessment of performance of tomato var. Swarna sampada	Yield	246.9	300	60000	62500	-	123450	150000	-	63450	87500	-	2.06	2.40	-
Angul	Assessment of performance of HYV capsicum California Wonder	Yield	105	125	100000	110000	-	315000	375000	-	215000	265000	-	2.06	3.41	-

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	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)
Angul	Assessment of performance of marigold var. Ceracola	Yield	124	138	75000	80000	-	248000	276000	-	173000	196000	-	3.31	3.45	-
Angul	Assessment of IPM practices for management of pod borer in pigeon pea	Pod damage(%) Seed damage(%)	35.74 17.22	10.84 8.12	24300	28500	-	40550	71250	-	16250	42750	-	1.69	2.50	-
Angul	Assessment of Indoxacarb for control of yellow stem borer in paddy	Dead heart(%) White ear head (%)	6.8 7.3	2.61 1.6	37000	38600	-	56576	66690	-	19576	28090	-	1.52	1.72	-
Angul	Assessment of IPM practices for management of thrips in onion	No of thrips per leaf	28.2	7.8	77000	85000	-	154420	193760	-	77420	108760	-	2.01	2.79	-
Angul	Assessment of egg parasitoids for management of sugarcane borers	Dead heart (%)	7.3	3.9	Continued	-	-	-	-	-	-	-	-	-	-	-
Angul	Assessment of effectiveness printed materials in technology dissemination through farmers club in oilseed cultivation	Content readability, clarity, need based, extent of knowledge dissemination, extent of use of the technology			Continued	-	-	-	-	-	-	-	-	-	-	-

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	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)
Angul	Assessment of T.O. SCF drill for direct seeding of rice in low land condition	Cost of sowing / transplanting (Rs./ha.)	10000	2000	32000	25000	-	52000	55250	-	20000	30250	-	1.63	2.21	-
Angul	Assessment of T.O. SCF drill for sowing of green gram	Seed requirement (Kg./ha.)	20	15	12500	14500	-	37500	45000	-	25000	30500	-	3.00	3.10	-
Angul	Assessment of T.O. ZT drill for sowing of mustard	Cost for land preparation (Rs./ha.)	2000	-	15000	13000	-	43400	49000	-	28400	36000	-	2.89	3.77	-
Angul	Assessment of drip irrigation in onion	-	-	-	30000	40000	-	84000	101500	-	54000	61500	-	2.80	2.54	-

2.3 Information about Home Science OFT:

KVK Name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Thematic Area	Details of Technology Selected for Assessment	Characteristics of Technology / Variety / Product / Enterprise	Farming / Enterprise Situation	No. of trials	Recommendations
Angul	2014-15	Rabi	Weight loss & deterioration in quality in green gram due to infestation of pulse beetle	Assessment of TNAU insect Trap in pulses	Assessment	Storage loss minimization techniques	Insects are trapped through the perforations and in the stem upward and downward movement is restricted.	Suited storage bag 2 or 3 traps can be placed at 15 to 20 cm depth in a bag of 30 to 45 cm diameter and 25 kg capacity for maximum benefit.	Homestead	13	Removal of insect from the trap in a regular interval is needed

KVK Name	Year	Season	Problem diagnose	Title of OFT	Category of technology	Thematic Area	Details of Technology	Characteristics of Technology /	Farming / Enterprise	No. of	Recommendations
Angul	2014	Kharif	Low meat and egg production in Banaraja birds and high mortality due to disease incidence	Assessment of Backyard poultry Var. Rhode Island Red (RIR)	Assessment	Income Generation	Dual purpose high yielding backyard poultry rearing with recommended practices	Rearing of dual purpose high yielding poultry breed weighing between 2-2.5 kgs and laying in excess of 200 large brown eggs.	Backyard	13	Backyard poultry var.RIR with vaccination in semi intensive system is profitable.
Angul	2014-15	Rabi	Lack of knowledge about RTS preparation from raw stone apple	Assessment of preparation of RTS from stone apple.	Assessment	Value addition	RTS from 25kg raw stone apple:12kg pulp+20kg sugar+0.3% citric acid +0.1% KMS produces 500 nos. of bottles of RTS of 200 ml.	Utilization of the raw stone apple and storage life of RTS is 6 month.	Homestead	13	Stone apple RTS is profitable but need to be create awareness among SHGs for commercialization
Angul	2014-15	Rabi	Low output ,time consuming and drudgery involved in manually threshing of sunflower	Assessment of sunflower threshing bench for drudgery reduction of farm women.	Assessment	Drudgery reduction	Use of sun flower threshing bench for reducing drudgery of farm women	Sunflower threshing bench used for separating the seeds from the flower after harvesting with a capacity of threshing 20kg/hr.	Homestead	13	Used safely by farm women separating seed from the dry flower.

2.4 Economic Performance Home Science OFT:

KVK name	OFT Title	Performance Indicator / Parameter																					
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input (Rs.)		Incremental income (Rs.)		Yield(Kg/ha)		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Angul	Assessment of TNAU insect Trap in pulses	-	-	-	-	-	-	-	-	-	-	464 kg	561 kg	18420	19570	17,168	22,440	5.8 q/ ha	5.8 q/ ha	-1252	2870	4122	T1=0.93 T2=1.14
Angul	Assessment of Backyard poultry Var. Rhode Island Red (RIR)	-	-	-	-	-	-	-	-	-	-	170 eggs/ bird/yr 2.0kg/ bird	194 eggs/ bird/yr 2.4kg/ bird	330/ bird	330/ bird	1030/ bird	1186/ bird	-	-	700/ bird.	856/ bird	-	T1=3.12 T2=3.59
Angul	Assessment of preparation of RTS from stone apple.	-	-	-	-	-	-	-	-	-	-	100lt	100lt	1280	2380	1600	5000	-	-	320	2620	2300	T1=1.25 T2=2.10
Angul	Assessment of sunflower threshing bench for drudgery reduction	5.3 kg/hr	19 kg/hr	8.18	9.24	106	113	68	-	263	-	-	-	25400.	23910	43500	43500	11.5 q/ha	11.5 q/ha	18,100	19590	1490	T1=1.71 T2=1.81

2.5 Feedback from KVK to Research System

Name of KVK	Feedback
Angul	The High yielding variety of paddy(Satyabhama) released by CRRI, 2012 is drought tolerant, non lodging, higher tiller bearing capacity and produces 55% & 16% higher grain yield in comparison to the standard local variety(Puni) and HYV(Sahabhagidhan) respectively. The HYV paddy (Satyabhama) can be profitably substituted in the existing farming situation .
Angul	Pre-emergence application of Bensulfuron methyl(0.6%)+ Pretilachlor(6%) @ 660g/ha at 3-7 DAT effectively controls the most of the weeds during early stages of transplanted paddy with weed control efficiency 76.7 % at 60 DAT & higher B:C ratio in comparison to the farmers practices of hand weeding and post-emergence application of Bispyribac sodium .
Angul	The high yielding variety of Toria (Sushree) released by OUAT, 2012 is non shattering, suitable to late sown condition and produces 45 % & 10 % higher grain yield over traditional local variety(Rai shoriso) and HYV(Anuradha) respectively. Thus, can be profitably substituted in the existing farming situation in rice-toria sequence for higher productivity and income.

Name of KVK	Feedback
Angul	Application of 75% STDF+Azospirillum, Azotobacter & PSB @ 4 kg each incubated with 300 kg FYM/ha + Sulphur @ 30kg/ha in rabi sesamum increases the grain yield by 44 % & 21 % over farmers practices and soil test based recommended fertiliser application respectively. Thus can be adopted in the mid central table land zone of Odisha for sustainability and profit maximisation.
Angul	Use of pheromone trap and alternate spraying of neem based pesticide and spinosad effectively control pod borers and increase yield
Angul	Application of indoxacarb once at tillering stage and 2nd at PI stage effectively controlled YSB in paddy
Angul	Basal application of neem cake and alternate spraying of multineem and imidacloprid effectively controlled thripes
Angul	Reading and print materials assessment needs at least one year for studying all parameters needed for communication research
Angul	Infestation 20% in traditional practice and 5% in trial. Quality of grain is also better in trial than traditional practice
Angul	More nos. of egg production than Banaraja variety and colour of birds (mostly red and brown with black, multi colour plumage) are appreciated.
Angul	Storage life of stone apple RTS is 6 month without any loss of vitamins and minerals
Angul	Sunflower Thresher reduces drudgery 263% and increase efficiency 68%

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
Angul	Paddy	Varietal Evaluation	Demonstration of HYV upland paddy(Sahabhagi dhan) with improved agronomic practices	Large scale demonstrations, Campaign for popularization of production technology, Use of mass media	90	185	160
Angul	Paddy	Integrated Nutrient Management	Sowing of Dhanicha seed @15 kg/ha at 3 DAS of rice and application of 2,4-D Ethyl Easter @ 1.0 kg/ha. at 30 DAS in direct seeded rice.	Large scale demonstrations, Campaign for popularization of production technology, Use of mass media	30	65	50
Angul	Paddy, Cattle, Vermi compost, Azolla, Mushroom, Apiary	Integrated Farming System	Crop based integrated farming system with inclusion of vermicompost, Azolla, Mushroom, Apiary	Large scale demonstrations, Campaign for popularization of production technology, Use of mass media	5	8	10
Angul	Groundnut	Integrated Weed Management	Post-emergence application of Quizalofop-ethyl @0.05 kg a.i/ha at 15 DAS and one hand weeding at 25 DAS	Large scale demonstrations, Campaign for popularization of production technology, Use of mass media	25	80	45
Angul	Groundnut	Integrated crop management	Demonstration on cultivation of groundnut var. Devi, RDF seed treatment weedcide (imagethyper), PP measure (Imidachlorpid)	Large scale demonstration, training, personal contact, group discussion	52	965	225
Angul	Sunflower	Integrated crop management	Demonstration on cultivation of Hybrid sunflower var. KBSH 1, RDF, seed treatment, line sowing ,PP measure	Large scale demonstration, training, personal contact, group discussion, liaisoning and convergence approach	23	220	35
Angul	Ground nut	Drudgery Reduction	Stripping groundnut pods from crop vines by using Groundnut Stripper.	Demonstration, Group Discussion ,use of mass media	12	56	-

3.2 Details of FLDs implemented

KVK Name	Year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/ Technology/ Entreprizes	Crop-Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
Angul	2014	Kharif	Varietal Evaluation	Demonstration of HYV upland paddy (Sahabhagidhan)	Paddy	Sahabhagidhan	1.0	26.7	34.8	30.3	1	0	4	0	5
Angul	2014	Kharif	Integrated Nutrient Management	Demonstration of Brown manuring in direct sown paddy	Paddy	Sowing of Dhaincha seed @15 kg/ha at 3 DAS after paddy sowing and application of 2,4-D EE @1.0 kg/ha at 30 DAS for knocking down of Dhaincha	1.0	27.3	31.8	16.5	0	0	5	0	5
Angul	2014	Kharif	Integrated Farming System	Demonstration of Crop based Integrated farming system	Paddy-Brinjal Vermicompost Azolla Mushroom Bee keeping	Inclusion of allied enterprises in crop based farming system like vermicompost, Azolla, Mushroom production and bee keeping provides appropriate urtilisation of human labour, scientific management of available resources and recycling of agricultural waste with employment generation, profit maximisation and sustainable yield	1.0	57.41	168.82	194.1	0	0	1	0	1
Angul	2014	Rabi	Integrated Weed Management	Demonstration of Integrated weed management in *rabi* groundnut	Groundnut	Post-emergence application of Quizalofop ethyl(5% EC) @ 0.05 kg/ha at 15 DAS controls most of the grassy weeds and rest of the weeds are controlled by one hand weeding at 25 DAS	1.0	19.8	22.3	12.6	0	0	4	1	5
Angul	2014	Kharif	HOV	Demonstration of Ivygourd cv Arka Nilachalasabuja	Ivygourd	Arka Nilachala sabuja	0.04	123.2	170.0	37.98	0	0	5	0	5
Angul	2014	Kharif	HOF	Demonstration of high yielding variety Banana G9	Banana	Grandnane	0.04	Cont…	-	-	0	0	5	0	5
Angul	14-15	Rabi	HOS	Demonstration of high yielding var. Chilli , Utkala Ragini	Chilli	Utkala Ragini	0.04	62.8	80.4	28	0	0	5	0	5

KVK Name	Year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/ Technology/ Entreprizes	Crop-Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
Angul	14-15	Rabi	HOO	Demonstration of improved marigold var. Pusa Narangi	Marigold	Pusa narangi	0.04	57.0	81.8	29.61	0	0	5	0	5
Angul	2014	Kharif	Integrated Pest Management	, Use of pheromone trap @ 50 traps/ha & 6 time release of egg parasitoid *T. japonicum* @50000/ha at 10 days interval	Paddy	Pooja	2.0	44.8	51.2	14.2	-	-	10	-	10
Angul	2014	Kharif	Integrated Disease Management	Seed treatment with vitavax power @ 2gm/kg of seed and spraying of validamycin 3L @1.5 lit/ha	Paddy	Pooja	2.0	40.6	47.8	17.7	-	-	4	6	10
Angul	2014-15	Rabi	Integrated Disease Management	Application of lime @500kg/ha, Rhizome treatment with Ridomyl MZ @ 1gm/lit for 20 mints & soil drenching with Ridomyl MZ @ 1gm/ltr 2 times at 2 months interval	Banana	G-9	1.0	Cont…	-	-	-	-	10	-	10
Angul	2014-15	Rabi	Integrated Disease Management	Tuber treatment with Dithane M-45 @4gm/lit & foliar spraying of carbendazim (12%) + mancozeb (63%) @2gm/lit	Potato	Kufri surya	1.0	310.5	348.6	12.3	-	-	10	-	10
Angul	2014-15	Rabi	Integrated Disease Management	Use of yellow sticky trap @ 50 traps/ha and alternate spraying of neem pesticides @2 ltr./ha and Thiamethaxam 25WG @ 125 ml/ha	Okra	Arka Anamika	1.0	Cont…	-	-	-	-	10	-	10
Angul	2014	Kharif	ICM	Improved variety 'ICGV91114',Line sowing, RDF(20-40-40),seed treatment with Rhizobium culture (20g/kg of seed)as a component of INM, Gypsum application@250kg/ha, pesticide application.	Groundnut	ICGV 91114	5.0	14.0	19.5	39.2	3	-	-	10	13

KVK Name	Year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/ Technology/ Entreprizes	Crop-Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
Angul	2014	Kharif	ICM	Improved variety TAU 1,Line sowing(25 cm x 10 cm), RDF (40-20-20),spraying of Triazophus 40 EC 2.5 l/ha and imidachlorpid 200 S.L (80 ml/ltr)	Black gram	TAU 1	5.0	5.8	8.00	38.00	-	-	-	12	12
Angul	2014-15	Rabi	ICM	Improved variety Parbati, Line sowing(30 x 10 cm), RDF (40-20-20 kg/ha),spraying with neem based pesticides (300 ppm) @ 2.0-2.5 l/ha at 10-15 days interval	Mustard	Parbati	5.0	7.8	10.9	39.00	2	-	-	10	12
Angul	2014-15	Rabi	ICM	Improved variety SML 668,Line sowing(25 cm x 10 cm), RDF (40-20-20), Seed treatment with Ammonium Molybdate @ 100 ml / kg of seed along with 20 g Rhizobium culture and need based pesticide application	Greengram	SML 668	5.0	5.6	8.1	43.00	-	-	-	12	12
Angul	2014-15	Rabi	IFS	Demonstration of pond based farming system with addition of banana in embankment plantation and poultry	Fish feed, Banana, Poultry	GNOC, Grandnane, Chhabro	1.0	Cont…	-	-	2	2	-	-	2
Angul	2014	Kharif	Farm Mechanization	Demonstration of T.O. rotavator for secondary tillage	Black gram	PU-31	2 ha.	7.2	8.5	18.1	0	0	5	0	5
Angul	2014	Kharif	Farm Mechanization	Demonstration of twin wheel hoe for weeding in groundnut	Groundnut	Devi	2 ha.	11.5	11.8	2.6	0	0	5	0	5
Angul	2014-15	Rabi	Farm Mechanization	Demonstration of T.O. multi crop planter for sowing of groundnut	Groundnut	Devi	2 ha.	11.5	13.2	14.8	0	0	5	0	5
Angul	2014-15	Rabi	Farm Mechanization	Demonstration of T.O. SCF drill for sowing of mustard	Mustard	Parbati	2 ha.	6	7.2	20.0	0	0	5	0	5

KVK Name	Year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/ Technology/ Entreprizes	Crop-Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
Angul	2014	Kharif	Feed management	Demonstration of FCR of slow sinking crumbled feed in fingerling production	Enterprise	Sinking feed	(1ha.) / (3no.)	1 lakh fingerlings	1.6 lakh fingerlings	60 %			2	1	3

3.3 Economic Impact of FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	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	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
Angul	Demonstration of HYV upland paddy (Sahabhagidhan)	Paddy	Plant height(cm) No of EBT/hill No of filled grains/panicle	83.6 8.6 119.7	88.2 14.4 131.4	31300	32586	39292	51138	7992	18552	1.26	1.57
Angul	Demonstration of Brown manuring in direct sown paddy	Paddy	Organic Carbon content(%) Available Nitrogen (Kg/ha) No of EBT/hill	0.58 283.0 12.4	0.69 320.2 17.5	29450	30430	39998	46648	10548	16218	1.36	1.53
Angul	Demonstration of Crop based Integrated farming system	Paddy-Brinjal Cattle Vermicompost Azolla Mushroom Bee keeping	Rice Equivalent yield(q/ha) Employment generation	57.41 170	168.82 286	43130	77505	78088	231350	36858	156145	1.81	2.98
Angul	Demonstration of Integrated weed management in *rabi* groundnut	Groundnut	Weed intensity /m^2at 60 DAS Weed dry weight at harvest (g/m^2) Weed control efficiency at harvest (%)	38.2 101.4 63.4	29.6 79.2 71.4	40803	43553	89250	99800	48447	56247	2.19	2.29
Angul	Demonstration of Ivygourd cv Arka Nilachalasabuja	Ivygourd	Yield	123.2	170.0	80,000	92,000	1,45,000	1,98,000	65,000	1,06,000	1,81	2.15

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	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	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
Angul	Demonstration of high yielding variety Banana G9	Banana	Cont…	-	-	-	-	-	-	-	-	-	-
Angul	Demobstration of high yielding var. Chilli , Utkala Ragini	Chilli	Yield	62.8	80.4	76,700	92,800	1,85,000	23,000	108300	137200	2.4	2.47
Angul	Demonstration of improved marigold var. Pusa Narangi	Marigold	Yield	57.0	81.8	60,000	75,000	1,76,000	2,40,000	1,16,000	1,65,000	2.9	3.2
Angul	, Use of pheromone trap @ 50 traps/ha & 6 time release of egg parasitoid *T. japonicum* @50000/ha at 10 days interval	Paddy	Dead heart (%) White ear head (%)	5.8 6.4	2.8 1.8	37000	58240	58240	66560	21240	26160	1.57	1.64
Angul	Seed treatment with vitavax power @ 2gm/kg of seed and spraying of validamycin 3L @1.5 lit/ha	Paddy	Infected plant (%)	10.4	3.6	36000	37520	52780	62140	16780	24620	1.46	1.66
Angul	Application of lime @500kg/ha, Rhizome treatment with Ridomyl MZ @ 1gm/lit for 20 mints & soil drenching with Ridomyl MZ @ 1gm/ltr 2 times at 2 months interval	Banana	Infected plant (%)	3.8	-	Cont…	-	-	-	-	-	-	-
Angul	Tuber treatment with Dithane M-45 @4gm/lit & foliar spraying of carbendazim (12%) + mancozeb (63%) @2gm/lit	Potato	Infected plant (%)	7.8	2.8	84000	87000	186300	209160	102300	122160	2.22	2.40
Angul	Use of yellow sticky trap @ 50 traps/ha and alternate spraying of neem pesticides @2 ltr./ha and Thiamethoxam 25WG @ 125 ml/ha	Okra	Infected plant (%)	24.6	8.2	Cont…	-	-	-	-	-	-	-

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	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	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
Angul	Improved variety 'ICGV91114',Line sowing, RDF(20-40-40),seed treatment with Rhizobium culture (20g/kg of seed)as a component of INM, Gypsum application@250kg/ha, pesticide application.	Groundnut	Grain yield, No. of pods/plant	14.0 16.0	19.5 25.0	33,000/-	40,400/-	60,500/-	80,800/-	27,500/-	40,400/-	1.83	2.00
Angul	Improved variety TAU 1,Line sowing(25 cm x 10 cm), RDF (40-20-20),spraying of Triazophus 40 EC 2.5 l/ha and imidachlorpid 200 S.L (80 ml/ltr)	Blackgram	Grain yield, No.of pods/plant, No. of seeds/pod, 1000 seed wt.(gm)	5.80 10.00 4 38.5	8.00 17.5 5 40.2	12,900/-	16,800/-	20,400/-	31,900/-	7,500/-	15,100/-	1.58	1.90
Angul	Improved variety Parbati, Line sowing(30 x 10 cm), RDF (40-20-20 kg/ha),spraying with neem based pesticides (300 ppm) @ 2.0-2.5 l/ha at 10-15 days interval	Mustard	Grain yield, No.of siliquae/plant No.of seeds/siliqua	7.8 3.86 10.45	10.9 4.42 11.12	20,900/-	22,600/-	26,890/-	35.200/-	5,990/-	12,600/-	1.28	1.55
Angul	Improved variety SML 668,Line sowing(25 cm x 10 cm), RDF (40-20-20), Seed treatment with Ammonium Molybdate @ 100 ml / kg of seed along with 20 g Rhizobium culture and need based pesticide application	Greengram	Grain yield, No.of pods/plant, No. of seeds/pod, 1000 seed wt.(gm)	5.6 26 5 28	8.1 37 7 31	11,300/-	15,100/-	18,220/-	32,500/-	6,920/-	17,400/-	1.61	2.15
Angul	Demonstration of pond based farming system with addition of banana in embankment plantation and poultry	Fish feed-GNOC Banana – G-9 Poultry – Chhabro	Mandays, Yield economics,	Cont…	-	-	-	-	-	-	-	-	-
Angul	Demonstration of T.O. rotavator for secondary tillage	Black gram	Cost of tillage (Rs./ha.)	2500	2000	13000	15000	36000	42500	23000	27500	2.77	2.83
Angul	Demonstration of twin wheel hoe for weeding in groundnut	Groundnut	Cost of weeding (Rs./ha.)	3250	975	40000	36000	57500	59000	17500	23000	1.44	1.64
Angul	Demonstration of T.O. multi crop planter for sowing of groundnut	Groundnut	Cost of sowing (Rs./ha.)	5000	1500	40000	33000	57500	66000	17500	33000	1.44	2.00

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	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	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
Angul	Demonstration of T.O. SCF drill for sowing of mustard	Mustard	Seed requirement (Kg./ha.)	10	7.5	15000	17000	36000	43200	21000	26200	2.40	2.54
Angul	Demonstration of FCR of slow sinking crumbled feed in fingerling production	Enterprise	Length(mm) Weight(gm) Duration(month) FCR	63 6 3 3.8	94 11 3 3.11	95,700	1,51,200	2,00,120	3,41,500	1,04,420	1,90,300	2.09	2.26

3.4 Information about Home Science FLDs

KVK name	Year	Season	Thematic Area	Problem Identified	Technology to be Demonstrated as Solution to the Identified Problem	Crop/ Enterprise (In which crop Enterprise or Farming Activity)	Name of Variety/ Technology/ Entreprizes	Farming Situation	Proposed area (ha)	No. of Beneficiaries
Angul	2014	Kharif	Nutritional Security	Non availability of green fodder and excess cost of commercial feed	Multiplication of Azolla (Variety. *Azolla caroliniana)*in low cost tank /pit of size 2mX1.5mX20cm and feeding 1-1.5kg Azolla per cow per day	Cow	*Azolla caroliniana*	Homestead	10 nos.	10
Angul	2014	Kharif	Drudgery reduction	High drudgery due to manual stripping	Stripping groundnut pods from crop vines by using groundnut stripper	Groundnut	Groundnut stripper	Homestead	2 units	10
Angul	2014-15	Rabi	Income Generation		Use of sand in regulating temperature(25-38^0 C and humidity(80-85%) inside low cost poly house with U.V polythene	Mushroom	*Volvorella volvaceae*	Homestead	2units	02
Angul	2014-15	Rabi	Mushroom production	Low yield of *P. sajarcaju* in extreme cold climatic condition	Cultivation of *Hypsizygous ulmarius* following bagging method	Mushroom	*Hypsizygous ulmarius*	Homestead	10 units(40 bags/unit)	10

3.5 Economic Performance Home Science FLDs:

KVK name	Technology to be Demonstrated	Performance Indicator / Parameter																				
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input (Rs.)		Incremental income (Rs.)		Yield(Kg/ha)		Net Return (Rs.)		Saving in (Rs.)	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Angul	Azolla as feed supplement to milch cow	-	-	-	-	-	-	-	-	-	-	218.4 lt/ month/ cow	253.2 lt/ month/ cow	3,931/ month/ cow	4,051/ month/ cow	6,552/ month/ Cow	8862/ month/ cow	-	-	2,620/ month/ cow	4,810/ month/ cow	2190/ month/ cow	T1=1.66 T2=2.18
Angul	Use of groundnut stripper	6.2 kg	11.3 kg	9.56	6.22	115	94	63	-	82	-	-	-	39,300	36,780	60,000	60,000	15q	15q	20,700	23,180	2,480	T1=1.52 T2=1.62
Angul	Paddy straw mushroom cultivation in poly house	-	-	-	-	-	-	-	-	-	-	1.75 kg/bag	0.9 kg/bed	37/ bag	52/ bed	87.50/ bag	135/ bed	-	-	50.50/ bag	83/ bed	-	T1=2.36 T2=2.59
Angul	Cultivation of Oyster mushroom var. *Hypsizygous ulmarius*	-	-	-	-	-	-	-	-	-	-	71.6 kg/unit	96.0 kg/unit	1,480/ unit	1,480/ unit	3,580/ unit	4,800/ unit	-	-	2,100/ unit	3,320/ unit	1,220/ unit	T1=2.41 T2=3.24

3.6 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Angul	Paddy	Training on Farmers/ Farmwomen Field day	1 1	25 35	
Angul	Paddy	Training on Farmers/ Farmwomen Field day	1 1	25 35	
Angul	Paddy-Brinjal, Cattle, Vermicompost Azolla, Mushroom, Bee keeping	Training on Farmers/ Farmwomen Field day	1 1	25 35	
Angul	Groundnut	Training on Farmers/ Farmwomen	1	25	
Angul	Paddy	Training on Farmers/ Farmwomen Field day	1 1	25 35	
Angul	Paddy	Training on Farmers/ Farmwomen Field day	1 1	25 35	
Angul	Banana	Training on Farmers/ Farmwomen	1	25	

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Angul	Potato	Training on Farmers/ Farmwomen	1	25	
	Okra	Training on Farmers/ Farmwomen	1	25	
Angul	Groundnut	Training, field day	2	60	Farmers showed interest to replace traditional variety
Angul	Black gram	Group meeting, field visit	2	25	TAU 1 variety performed well
Angul	Mustard	Training, field visit, meeting	2	35	Seed availability may be a problem
Angul	Green gram	Training, field visit, meeting	2	35	Horizontal expansion is assured
Angul	Livestock	Training, field visit, meeting	2	50	Horizontal expansion is assured
Angul	Mushroom	Training, field visit, meeting	2	40	Horizontal expansion is assured
Angul	Fish	Training, field visit	1	25	Horizontal expansion is assured

3.7 Details of FLD on crop hybrids.

S. No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.

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
Angul	-	Cultivation of HYV paddy (Sahabhagidhan)	Farmers appreciated the HYV paddy Sahabhagidhan as it produced 30.3% higher yield in comparision to existing age old variety Khandagiri and higher tiller with drought tolerant capacity during dry spell situation	Farmers were convinced with for its adoption and decided to cultivate in large scale in next Kharif' 2015. They are also in regular contact with KVK for the source and availability of HYV Sahabhagidhan
Angul	-	Sowing of Dhaincha seed @15 kg/ha at 3 DAS after paddy sowing and application of 2,4-D EE @1.0 kg/ha at 30 DAS for knocking down of Dhaincha	Farmers appreciated the Brown manuring in direct sown paddy as it produced 4.5q/ha higher yield with increase in organic carbon content 0.11% and available Nitrogen 37.2 kg/ha for the next crop.	Farmers were convinced with for its adoption of this practice and decided to cultivate the direct sown paddy through brown manuring practice in large scale in next Kharif' 2015.

Name of KVK	Feedback			
	Technology appropriations	**Methodology used**	**Benefits of OFT/FLD**	**Future Adoption**
Angul	-	Inclusion of allied enterprises in crop based farming system like vermicompost, Azolla, Mushroom production and bee keeping provides appropriate urtilisation of human labour, scientific management of available resources and recycling of agricultural waste with emplomen generation, profit maximisation and sustainable yield	Farmers appreciated inclusion of allied enterprises in crop based farming system like vermicompost, Azolla, Mushroom production and bee keeping as it provides appropriate urtilisation of human labour, scientific management of available resources and recycling of agricultural waste with emplomen generation, profit maximisation and sustainable yield	Farmer convinced with for its adoption of this crop based integrated farming system and decided to contue this farming system as it gave a sustainable income with employment generation.
Angul	-	Post-emergence application of Quizalofop ethyl(5% EC) @ 0.05 kg/ha at 15 DAS controls most of the grassy weeds and rest of the weeds are controlled by one hand weeding at 25 DAS	Farmers appreciated the technology as it controls the weed effectively during early stage and they could also save Rs.3000/ha towards cost of weeding and get 12.3% higher yield in comparision to the traditional practice of sole hand weeding.	Farmers were convinced with the technology as they get higher yield with reduced cost of cultivation and decided to use Quizalofop ethyl in groundnut in large scale in next Kharif' 2015.

4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
Angul	The High yielding variety of paddy(Satyabhama) released by CRRI, 2012 is drought tolerant, non lodging, higher tiller bearing capacity and produces 55% & 16% higher grain yield in comparison to the standard local variety(Puni) and HYV(Sahabhagidhan) respectively. The HYV paddy (Satyabhama) can be profitably substituted in the existing farming situation .
Angul	Pre-emergence application of Bensulfuron methyl(0.6%)+ Pretilachlor(6%) @ 660g/ha at 3-7 DAT effectively controls the most of the weeds during early stages of transplanted paddy with weed control efficiency 76.7 % at 60 DAT & higher B:C ratio in comparison to the farmers practices of hand weeding and post-emergence application of Bispyribac sodium .
Angul	The high yielding variety of Toria (Sushree) released by OUAT, 2012 is non shattering, suitable to late sown condition and produces 45 % & 10 % higher grain yield over traditional local variety(Rai shoriso) and HYV(Anuradha) respectively. Thus, can be profitably substituted in the existing farming situation in rice-toria sequence for higher productivity and income.
Angul	Application of 75% STDF+Azospirillum, Azotobacter & PSB @ 4 kg each incubated with 300 kg FYM/ha + Sulphur @ 30kg/ha in rabi sesamum increases the grain yield by 44 % & 21 % over farmers practices and soil test based recommended fertiliser application respectively. Thus can be adopted in the mid central table land zone of Odisha for sustainability and profit maximisation.
Angul	The High yielding variety of paddy(Satyabhama) released by CRRI, 2012 is drought tolerant, non lodging, higher tiller bearing capacity and produces 55% & 16% higher grain yield in comparison to the standard local variety(Puni) and HYV(Sahabhagidhan) respectively. The HYV paddy (Satyabhama) can be profitably substituted in the existing farming situation .
Angul	Pre-emergence application of Bensulfuron methyl(0.6%)+ Pretilachlor(6%) @ 660g/ha at 3-7 DAT effectively controls the most of the weeds during early stages of transplanted paddy with weed control efficiency 76.7 % at 60 DAT & higher B:C ratio in comparison to the farmers practices of hand weeding and post-emergence application of Bispyribac sodium .

Name of KVK	Feedback basic of OFT on Technology Tested
Angul	The high yielding variety of Toria (Sushree) released by OUAT, 2012 is non shattering, suitable to late sown condition and produces 45 % & 10 % higher grain yield over traditional local variety(Rai shoriso) and HYV(Anuradha) respectively. Thus, can be profitably substituted in the existing farming situation in rice-toria sequence for higher productivity and income.
Angul	Application of 75% STDF+Azospirillum, Azotobacter & PSB @ 4 kg each incubated with 300 kg FYM/ha + Sulphur @ 30kg/ha in rabi sesamum increases the grain yield by 44 % & 21 % over farmers practices and soil test based recommended fertiliser application respectively. Thus can be adopted in the mid central table land zone of Odisha for sustainability and profit maximisation.
Angul	Use of TNAU trap without any use of chemical can manage stored grain and environment friendly.
Angul	Egg production of RIR var.(194 eggs/bird) is more than Banaraja var.(170eggs/bird) and hence preferred by landless
Angul	Raw stone apple RTS with a good taste and long self life is profitable enterprise
Angul	The drudgery in manual threshing is minimized up to required extent & improves efficiency of farm women up to 68% over traditional practice due to use of Sun flower Thresher in Angul District.

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
Angul				

Abbreviation Used

FW	(A) Farmers & Farm Women
RY	(B) Rural Youths
IS	(C) Extension Personnel
ONC	On Campus Training Programme
OFC	Off Campus Training Programme
M	Male
F	Female
T	Total
Thematic Areas for Training	
CRP	Crop Production
HOV	Horticulture – Vegetable Crops
HOF	Horticulture-Fruits
HOO	Horticulture- Ornamental Plants
HOP	Horticulture- Plantation crops
HOT	Horticulture- Tuber crops
HOS	Horticulture- Spices
HOM	Horticulture- Medicinal and Aromatic Plants
SFM	Soil Health and Fertility Management
LPM	Livestock Production and Management
WOE	Home Science/Women empowerment
AEG	Agril. Engineering
PLP	Plant Protection
FIS	Fisheries
PIS	Production of Inputs at site
CBD	Capacity Building and Group Dynamics
AGF	Agro-forestry
OTH	Others
RYH	Rural Youth
EXP	Extension Personnel

5. TRAINING PROGRAMMES

Table 5.1. Details of Training programmes conducted by the KVKs

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		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
Angul	FW	ONC	CRP	Remunerative cropping system in medium land farming situation	1	2	0	0	0	0	0	0	24	1
Angul	FW	ONC	CRP	Fruit based Agroforesty system for livelihood security	1	2	0	0	0	0	0	0	15	10
Angul	FW	OFC	CRP	Improved Agronomic practices in rainfed upland paddy	1	1	19	0	2	0	0	0	4	0
Angul	FW	OFC	CRP	Weed management in transplanted medium land paddy	1	1	10	2	3	5	1	1	2	1
Angul	FW	OFC	CRP	Integrated nutrient management in upland paddy	1	1	0	0	0	0	0	0	22	3
Angul	FW	OFC	CRP	Crop based Integrated farming system	1	1	0	0	0	0	0	0	17	18
Angul	FW	OFC	CRP	Improved Agronomic practices in irrigated toria	1	1	7	2	5	0	1	1	6	3
Angul	FW	OFC	CRP	Paira cropping of greengram/blackgram in rice based cropping system	1	1	18	0	4	0	0	0	3	0
Angul	FW	OFC	CRP	Integrated weed management in *rabi* groundnut	1	1	0	0	0	0	0	0	17	8
Angul	FW	OFC	CRP	Integrated nutrient management in sesamum	1	1	5	3	5	0	0	0	9	3
Angul	IS	ONC	CRP	Crop diversification in rice based cropping system for sustainable agriculture	1	2	7	3	0	0	0	0	0	0
Angul	IS	ONC	CRP	Crop contigency neasures for different types of drought management	1	2	6	4	0	0	0	0	0	0
Angul	FW	ONC	HOM	Improved cultivation practices of médicinal & Aromatic plant	1	2	25	15	5	2	3	0	0	0
Angul	FW	ONC	HOO	Commercial cultivation of Gladioli, Tuberoses & Marigold	1	2	25	10	5	8	2	0	0	0
Angul	FW	ONC	HOS	Seed production technology in vegetable crop	1	2	25	10	5	8	2	0	0	0
Angul	FW	ONC	HOO	Commercial Marigold cultivation	1	2	25	10	5	8	2	0	0	0
Angul	FW	ONC	HOV	Technology for Kharif tomato cultivation	1	2	25	10	5	8	2	0	0	0
Angul	FW	ONC	HOV	Commercial cultivation of leafy vegetable throughout the year	1	2	25	10	5	8	2	0	0	0
Angul	RY	OFC	HOV	Propagation technique for commercial tools for raising vegetable & flowers	1	1	15	10	5	0	0	0	0	0
Angul	FW	OFC	HOF	Nursery management of fruit crop	1	1	25	10	5	8	2	0	0	0
Angul	FW	OFC	HOF	Improved technology of banana cultivation	1	1	25	10	5	8	2	0	0	0
Angul	FW	OFC	HOS	Improved cultivation practices of onion production	1	1	25	10	5	8	2	0	0	0
Angul	FW	OFC	HOV	Production technology of Ivy guord	1	1	25	10	5	8	2	0	0	0
Angul	FW	OFC	PLP	Seed treatment for insect pest & disease management	1	1	13	-	12	-	-	-	-	-

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		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
Angul	FW	ONC	PLP	Integrated pest management in kharif paddy	1	2	-	-	-	-	--	-	13	12
Angul	FW	OFC	PLP	Integrated disease management in kharif paddy	1	1	-	-	1	-	-	-	11	13
Angul	FW	OFC	PLP	Integrated pest & disease management of Kharif vegetables	1	1	-	-	-	-	-	-	2	23
Angul	FW	ONC	PLP	Integrated pest & disease management in kharif groundnut	1	2	-	-	-	-	-	-	7	18
	FW	OFC	PLP	Nursery management for raising of healthy vegetable seedling	1	1	-	-	13	-	-	-	12	-
	FW	OFC	PLP	Wilt management in solanaceous vegetables	1	1	-	-	3	3	-	-	11	8
Angul	FW	OFC	PLP	Disease management in banana	1	1	-	-	13	-	-	-	12	-
Angul	FW	ONC	CBD	Agroecosystem analysis for village adoption	1	2	14	10	1	0	0	0	0	0
Angul	FW	ONC	IFS	Farming system development	1	1	16	9	0	0	0	0	0	0
Angul	FW	ONC	KM	Information networking among workers	1	1	20	4	1	-	-	-	-	-
Angul	FW	ONC	CBD	Post harvest technology for marketing of vegetable products	1	2	12	5	7	1	-	-	-	-
Angul	FW	ONC	CBD	Secondary agriculture for sustainable development	1	1	24	-	-	1	-	-	-	-
Angul	FW	ONC	ICM	Improved groundnut cultivation	1	1	16	2	6	1	-	-	-	-
Angul	FW	ONC	ICM	Improved mustard cultivation	1	1	10	2	13	-	-	-	-	-
Angul	FW	ONC	ICM	Improved green gram cultivation	1	1	21	-	4	-	-	-	-	-
Angul	RY	ONC	CBD	Household food security through primary and secondary processing	1	2	15	-	-	-	-	-	-	-
Angul	RY	ONC	CBD	Participatory technique for watershed development	1	2	14	0	1	0	0	0	0	0
Angul	RY	ONC	CBD	Income generation activities for employment of rural mass	1	2	11	-	4	-	-	-	-	-
Angul	IS	ONC	CBD	Planning and management for sustainable agricultural livelihood	1	2	8	-	1	-	-	-	1	-
Angul	IS	ONC	CBD	Orientation of capacity building of Extension workers	1	2	7	2	1	-	-	-	-	-
Angul	IS	ONC	CBD	Development and sustainability of IFS	1	2	10	-	-	-	-	-	-	-
Angul	IS	ONC	CBD	Climate change and adaptive agriculture	1	2	7	3	-	-	-	-	-	-
Angul	IS	ONC	AEG	Mechanization in paddy cultivation	1	2	1	0	0	0	0	0	5	4
Angul	FW	OFC	AEG	Training cum awareness programme on farm mechanization	2	2	0	0	0	0	0	0	53	47
Angul	FW	ONC	WOE	Semi intensive management practices for backyard poultry	1	2	0	25	0	0	0	0	0	0
Angul	FW	ONC	WOE	Off season mushroom cultivation in low cost poly house	1	2	0	25	0	0	0	0	0	0
Angul	FW	ONC	WOE	Location specific women friendly drudgery reducing tools	1	2	0	25	0	0	0	0	0	0
Angul	FW	ONC	WOE	Storage loss minimization techniques	1	1	0	25	0	0	0	0	0	0
Angul	FW	ONC	WOE	Kitchen garden for nutritional security of farm family	1	2	0	25	0	0	0	0	0	0
Angul	FW	OFC	WOE	Use of groundnut stripper for drudgery reduction	1	1	0	25	0	0	0	0	0	0
Angul	FW	OFC	WOE	Use of TNAU insect trap in controlling store grain pests in pulses	1	1	0	25	0	0	0	0	0	0

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		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
Angul	FW	OFC	WOE	Use of okra plucker for drudgery reduction	1	1	0	25	0	0	0	0	0	0
Angul	FW	OFC	WOE	Azolla cultivation for milch cow	1	1	0	22	0	0	0	0	0	3
Angul	RY	ONC	WOE	Paddy straw mushroom cultivation in poly house	1	2	0	15	0	0	0	0	0	0
Angul	RY	ONC	WOE	Value addition in Raw mango	1	2		15	0	0	0	0	0	0
Angul	RY	ONC	WOE	Oyster mushroom cultivation	1	2		15	0	0	0	0	5	0
Angul	F/FW	ONC	FIS	Construction of new Fish culture Ponds and their management	1	2	20	-	5	-	-	-	-	-
Angul	F/FW	OFC	FIS	Supplementary feeding and its importance	1	1	24	-	-	-	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							
					Gen		SC		ST		Others	
					M	F	M	F	M	F	M	F
Angul	Organic farming and vermi composting	Vermi compost	Organic farming	2	9	0	2	0	0	0	4	0
Angul	Seed production & certification in paddy	Paddy	Seed production	6	3	0	0	0	0	0	7	0
Angul	Improved agril. implements for land preparation and line sowing of different crops	Enterprise	Farm Mechanization	7	4	0	0	0	0	0	6	0

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

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

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.)
							Gen		Others		SC		ST			
							M	F	M	F	M	F	M	F		

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.)
							Gen		Others		SC		ST			
							M	F	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	
Angul	Information networking and management	25	210	301	-	-	-	-	1.Knowledge change -68% 2.No.of KMAs user- 21%

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			
Angul	Field Day	05	03	100	5	3	-	10	2	Wider dissemnation	ICM in groundnut, INM in Paddy	Maturity
Angul	Kisan Mela	01	01	1768	230	25	12	16	8	Wider dissemnation and adoption	Sustainable Agriculture, Rural Marketing	
Angul	Kisan Ghosthi	04	04	86	23	12	09	2	1	Group approach	Mango, Mushroom	
Angul	Exhibition	03	04	345	102	21	1	8	2	Wider dissemnation	All technologies	
Angul	Film Show	06	06	34	2	6	1	2	-	Increase extent of adoption	Mushrrom, Poultry, vermicompost, drudgery, Paddy cultivation	
Angul	Method Demonstrations	07	07	124	32	15	5	7	-	Awareness	Mechanization	
Angul	Farmers Seminar	-	-							-	---	
Angul	Workshop	-	-							-	-	
Angul	Group meetings	08		79	23	3	-	-	-	Interaction	Pest management, Village survey, SHG	
Angul	Lectures delivered as resource persons	20	20	Mass						Capacity building		

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			
Angul	Newspaper coverage	09	09	Mass						Popularization	SAC, Women Day, W.Food Day, Kissan Mela	
Angul	Radio talks	07	07	Mass						Awareness		
Angul	TV talks	02	02	Mass						Awareness		
Angul	Popular articles	10	10	Mass						Awareness		
Angul	Extension Literature	08	08	Mass						Reading materials, Popularization of technology	Medicinal ploant, Brinjal, IFS, INM Sesamum, Weed management	
Angul	Farm advisory Services	32	32	132	21	12	2	1	1	Related to mandate	Diagnostic, enterprise development, Market	
Angul	Scientific visit to farmers field	28	28	109	43	21	12	4	1	Diagnostic visit	Plant protection, Enterprise	
Angul	Farmers visit to KVK	01	01	2367	431	32	18	10	9	Traininh, awareness, Input collection	Farmers club member capacity building	
Angul	Diagnostic visits	27	27	100	23	21	07	01	01			
Angul	Exposure visits	-	-	-	-	-	-	-	-			
Angul	Ex-trainees Sammelan	02		32	8	1	-	1	-	Impact assessment		
Angul	Soil health Camp											
Angul	Animal Health Camp											
Angul	Agri mobile clinic											
Angul	Soil test campaigns	01	01	43	7	-	-	-	-	Awareness	Soil test	
Angul	Farm Science Club conveners meet	10	10	380	21	5	5	10	1	Capacity building, Demonstration	Oilseed, Vegetables, Rural market, Agroservice centre	
Angul	Self Help Group conveners meetings	08	08	26	61	12	3	--	4	Economic viability	Commodity wise advisory	
Angul	Mahila Mandals conveners meetings											
Angul	Celebration of important days	03	03	140	14	5	7	8	2	Observation and awareness	World Food day,Women in Agriculture Day,Vanamahatsav	NA

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
Angul	2007	Quarterly	1500	1400

a. Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Angul	Leaflet	Integrated Weed Management in field crop	T.K.Samant	500
Angul	Leaflet	Integrated Farming System for small holder farmers	Dr.B.Satpathy, Dr.D.Panigrahi	500
Angul	Training manual	Rice production Technologies	Dr.B.Satpathy, Mr.T.K Samanta, Er.B.Mohanty	500
Angul	Leaflet	Mushroom cultivation , medicinal plants, Azolla cultivation	Dr.S.Acharya, Dr.D.Panigrahi, Mr.D.S.kar	1500
Angul	Leaflet	Commercial onion cultivation	Dr.D.Panigrahi, Mr.D.S.kar ,Mr. B.C.Dhir, Dr.S.Acharya,	500
Angul	Leaflet	Disease & Pest management in fruit crops	Dr.D.Panigrahi, Dr.B.Satpathy , T.K.Samant,	500
Angul	Research paper	Evaluation of front line demonstration on rice (Manaswini)	T. K. Samant	9(3): 2014 PP:311-315
Angul	Research paper	Evaluation of growth and yield parameters of Greengram (*Vigna radiata* L.)	T. K. Samant	9(3): 2014 PP: 427-430
Angul	Research paper	Impact of front line demonstration on yield and economics of hybrid rice (Rajalaxmi)	T. K. Samant	49(1): 2015 PP: 88-91
Angul	Research paper	Weed growth ,yield components, productivity, economics and nutrient uptake of maize as influenced by hervicide application under rainfed condition	T. K. Samant ,B.C Dhir,B.Mohanty	2(IB)79-83,2015
Angul	Research paper	Efficacy of Post-emergence herbicide Quizalofop ethyl for controlling grassy weeds in groundnut	T.K. Samant and K.N. Mishra	48(6): 2014 PP: 488-492
Angul	Research paper	Evaluation of growth and yield parameters of rice hybrids in table lands of Odisha	T.K.Samant, A.Mishra and D. Panigrahi	5(5): 2014 PP:972-975
Angul	Research paper	Assessment of HYV greengram Durga(OGGG 52) under mid central table land zone of Odisha	T. K. Samant, D. Panigrahi and B. C. Dhir	31(1 & 2):2013 PP: 30-32
Angul	Research paper	Effect of weed management on yield, economics and nutrient uptake in tomato (*Lycopersicum esculentum* Mill.)	T.K. Samant and M. Prusty	5(2):2014 PP: 144-188
Angul	Research paper	Record on Phytophagus mites associated with important vegetables in Angul district of Orissa	D.Panigrahi,T.K Samanta,B.C Dhir	5(6):1316

KVK Name	Type	Title	Author's name	Number of copies
Angul	Research paper	Knowledge on Health and Nutrition among Self Help Groups affects the Nutritional status	S. Acharya	Vol.9, Issue.2,Dec-14 pp:530-534
Angul	Research paper	Market orientation through entrepreneurial behavior in secondary agriculture: An assessment study	B.Satpathy	Vol.51,Issue 1 & 2Jan-2015, Pg.no 21-26
Angul	Research paper	Immunological response in Labeorohita exposed to fish processing	R.P.Mishra	33(2A),2015, Pg 860-862
Angul	Research paper	Limnochemistry of Richer pagladia	R.P.Mishra	33(2A),2015, Pg 863-866
Angul	Research paper	Assessment of suitability of processing effluent discharged from quality Indian seafood Expert Shimp,	R.P.Mishra	5(1)2015

7.3 Details of Electronic Media Produced

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
Angul	CD	Farmers Fair	4

8. Production and supply of Technological products

8.1 SEED production

KVK Name	Major group/class	Crop	Variety	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Angul	Cereal	Paddy	Sahabhagidhan	7.80	20257	20	16
Angul	Cereal	Paddy	Naveen	28.60	69612	62	58

8.2 Planting Material production

KVK Name	Major group/class	Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Angul	Vegetables	Tomato	Chiranjibi, Swarna sampad	18000	18000	52	0.4
Angul	Vegetables	Brinjal	Tarini Hyb	2000	2000	10	0.05
Angul	Vegetables	Onion	Bhima super	250000	15000	15	0.5
Angul	Vegetables	Chilli	Utkal ragini	15000	15000	40	0.3
Angul	Vegetables	Cabbage	Syngenta 1195 Hyb	500	500	5	0.02
Angul	Vegetables	Cauliflower	Kimiya	500	500	6	0.02
Angul	Flower	Marigold	Ceracola, Pusa narangi	30000	30000	60	0.5

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

KVK Name	Major Group Bio agent/ Bio fertilizers/ Bio Pesticides	Name of the Product	Qty (In Kg)	Qty (In No)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Angul	Bio feriliser	Vermi compost	1200	-	6000	15	0.6
Angul	Bio feriliser	Azolla	30	-	1200	6	-
Angul	Others	Paddy straw Mushroom	134.0	-	9380	32	-
Angul	Others	Oyster Mushroom	110.8	-	5540	28	-
Angul	Others	Mushroom Spawn	-	2600	.31200	104	-
Angul	Bio feriliser	Vermi compost	1200	-	6000	15	0.6

8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Breed	Type of Produce	Qty. (kg/qt./litre)	Value (Rs.)	No. of Beneficiaries
Angul	Poultry	RIR, Chhabro, Banaraja	Nos	510	47722	26

9. Activities of Soil and Water Testing Laboratory

9.1 Details of soil samples analyzed so far:

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Soil report distributed to the farmers (Nos)
Angul	Functioning	`2009		620	620	45	3100	620

9.2 Details of water samples analyzed so far :

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Water report distributed to the farmers (Nos)
Angul	-	-	-	-	-	-	-	-

10. Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

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

11. Utilization of Farmers Hostel facilities

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)	Accommodation available (No. of beds)
Angul	April	2014-15	Remunerative cropping system in medium land farming situation	2	25	1		25
Angul	August	2014-15	Fruit based Agroforesty system for livelihood security	2	25	1		25
Angul	August	2014-15	Organic farming and vermi composting	2	15	1		15
Angul	October	2014-15	Seed production & certification in paddy	6	10	5		10
Angul	November	2014-15	Improved agril. implements for land preparation and line sowing of different crops	7	10	6		10
Angul	May	2014-15	Agro ecosystem analysis for village adoption	2	25	1		25
Angul	November	2014-15	Post harvest technology for marketing of vegetable products	2	25	1		25
Angul	August	2014-15	Household food security through primary and secondary processing	2	15	1		15
Angul	June	2014-15	Participatory technique for watershed development	2	15	1		15
Angul	October	2014-15	Income generation activities for employment of rural mass	2	15	1		15
Angul	July	2014-15	Semi intensive management practices for backyard poultry	2	25	1		25
	May	2014-15	Kitchen garden for nutritional security	2	25	1		25
Angul	September	2014-15	Location specific women friendly drudgery reducing tools	2	25	1		25
Angul	July	2014-15	Paddy straw mushroom cultivation in poly house	2	15	1		15
	February	2014-15	Storage loss minimization techniques	2	25	1		25
Angul	June	2014-15	Value addition in Raw mango	2	15	1		15
Angul	November	2014-15	Oyster mushroom cultivation	2	15	1		15

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
Angul	2010	2010-12	03	Nil	-

13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Angul	20.9.14	25	• Two nos. of rural youth trainings and 1 no. of vocational training per quarter may be organized • Extension materials on adoption of relevant technologies need to be published • Thrust on crop diversification in the district • Refinement in Front Line Demonstration under Oilseed & Pulses need to be emphasized & assessment to be done to bridge the productivity gap. • Pond and crop based farming system to be standardized for the betterment of the farming community. • Awareness on contract farming need to be popularized in the district • Service providers in the Farm Mechanization sector may be developed by encouraging the entrepreneurs undertaking training on farm mechanisation • Soil samples before and after FLD & OFT may be done to assess the change in soil status. • Technology on climate resilience need to be transmitted for the agriculture sector. • A study to be made to assess the market information structure in the district. • Entrepreneurs in livestock may be promoted. • Women entrepreneurs to be promoted
Angul	18.12.14	27	• Rural youth and vocational training in each quarter • Extension materials on adoption of technology need to be published • Pond and crop based farming system to be standardized • Assessment and refinement in oilseed and pulse crops • Crop diversification in the district • Service providers on farm mechanization sector may be developed • Soil fertility status may be assessed before and after conducting FLD & OFT through soil testing • Rural entrepreneurship may be promoted • Climate resilient technology needs to be diffused to the agriculture sector

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

KVK Name	No. of messages sent	No. of beneficiary		Sponsoring agency (NIC, Farmers Portal, etc.)	Major recommendations
		Farmers	Ext. Pers.		
Angul	250	2258	58	NTIER Solution, Bhubaneswar	Crop management, Pest management, Awareness, Marketting, Enterprise development

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
Angul	ATMA	Central	-	Training, Demonstration	Adopted villages	Federation members
Angul	ATMA	Central		Purchase of Dal Mill	Campus	Entrepreneurship development

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Angul	30160005025	2,44,833/-	82743.00	82743.00

17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Angul	Best farmer	Farmer	OUAT	-
	Best farmer (20 nos.)	Farmer	KVK,ATMA	-

18. Details of KVK Agro-technological Park .

a) Have you prepared layout plan, where sent?

S .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	Cereals, Pulse, Oilseed, Vegetables	1

19. 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.

20. KVK interaction with progressive farmers

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers to be participated
Angul	18th of every month	Average 40 farmers each month

21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Angul	8	6	27	149

Intensive- OFTS, FLDS etc; Extensive- Literatures, Publications, Awareness programmes etc.

22. 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
-	-	-	-	-

23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1	KVK, Dhenkanal, Deogarh	Knowledge sharing	Dissemination process varies from situation to situation

24. **Important visitors to KVK**

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Angul	Prof.M.Kar, Hon'ble V.C.,OUAT	7.2.15 & 26.2.15		SAU		Chief Guest of Farmer Fair Reviewed KVK, Activities
Angul	Prof.S.S.Nanda, Dean (Ext.Education) OUAT	20.9.14 & 7.2.15		SAU		Review
Angul	Dr.R.Agarwal, Senior Scientist, IGFRI, Jhansi	30.12.15 & 31.12.15	ICAR			Monitoring of fodder demonstration
Angul	Mr.Sachin R. Yadav, Hon.Collector & DM, Angul	18.12.14 & 8.2.15			District	Attend SAC and Farmers Fair
Angul	Dr.T.R.Athare, Senior Scientist, ZPD, Jabalpur	3.2.15	ZPD			Review
Angul	Dr.P.K.Sarangi, ADR, RRTTS	20.9.14,18.12.14 & 7.2.15		SAU		Attend SAC, farmer fair
Angul	Dr.L.M Garnaik, Chief Agronomist, OUAT	16.10.2015		SAU		To attend World Food Day
Angul	Dr.S.C.Sahoo, Jt.Director, Extension, DEE, OUAT	18.12.14		SAU		Attend SAC
Angul	Dr.G.A.A Kumar, Principal Scientist, CRRI	18.12.14	ICAR			Attend SAC
Angul	Dr.K.B.Mohapatra, Professor	8.02.15		SAU		Attend farmers fair/ Scientist interaction
Angul	Dr.N.C.Rath, Principal Scientist CRRI	8.02.15		SAU		Attend farmers fair/ Scientist interaction
Angul	Dr. D.K.Dora, scientist ,OUAT	8.02.15		SAU		Attend farmers fair/ Scientist interaction
Angul	Dr.A.Mohapatra, OUAT	8.02.15		SAU		Attend farmers fair/ Scientist interaction

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Angul	Dr. B.K.Das, Principal Scientist, CIFA	8.02.15		SAU		Attend farmers fair/ Scientist interaction

25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Angul	02.05.11	12	860

26. 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			
Angul	NA						

27. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks
	Angul	No	No	No

28. Status of Citizen Charter

Sr. No.	Name of KVK	Query received(Nos)	Query Disposed(Nos)	Remarks
	Angul	10	10	-

29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Angul	Dr.Bineeta Satpathy	SMS(Agril.Extension)	1	At CIFA, On farm testing areas and capacity building of Extension experts were discussed
Angul	Dr.Bineeta Satpathy	SMS(Agril.Extension)	1	At IGKVV, Raipur Discussion on Market led Extension ,ICT and Convergence approach should be given priority
Angul	T.K.Samant	SMS(Agronomy)	1	Weed management
Angul	B.Mohanty	SMS(Engg.)	1	Principles and practices of direct seeded rice

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
Angul	02	04

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Angul	T.K.Samanta	SMS(Agronomy)	DEE ,OUAT	Emerging trend in agricultural production system and creative thinking for better transfer of technologies
Angul	Dr.B.Satpathy	SMS(Agrl.Extn.)	DEE ,OUAT	Emerging trend in agricultural production system and creative thinking for better transfer of technologies
Angul	Dr. S.Acharya	SMS(Home Science**)**	DEE,OUAT	Recent advances in H.Sc,animal science and fishery discipline for rural development
Angul	B.C.Dhir,Er.B.Mohanty, D.S.Kar,T.Sarangi	SMS	DEE,OUAT	Farm management

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
Angul	7	4

31. Attended HRD Programmes by KVK Staff (Refresher course, Short course, Training programme etc.)

Name of KVK	Name of Staff	Post held	Programmes attended (Nos)	Remarks
Angul	Dr. S.Acharya	SMS(Home Science)	1	Short Course at DRWA
Angul	Dr. B.Satpathy	SMS(Agril.Extn.)	1	National Seminar of ISEE,IARI at RVSKVV, Gwalior

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
Angul	2	2

32. Agri alert report (Epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)

Name of KVK	Alert observed	Particulars	Reported to organization

33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Angul	Method demonstration of seed drill	01	25	Pulse crops
Angul	Preservation techniques	01	25	Tomato
Angul	ICT tools for rural youth	01	15	AGMARKNET,farmers portal,Agri portals
Angul	Farmer scientist interaction	01	50	Weed management in field crops
Angul	Method demonstration	01	25	Mango grafting techniques
Angul	Road Show	01	100	Organic plant protection methods

34. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries
Angul	Sahabhagi dhan	160	135
Angul	Pigeon pea	360	1900
Angul	Sesamum	1120	486

Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
Angul	Paddy(upland)	9149	4500
Angul	Pigeon pea	9610	5100
Angul	Sesamum	15310	7200

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No. of participants
Angul	Poultry	1	30

Animal health camps organized

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

Seed distribution in drought hit states

Name of KVK	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Angul	Paddy	3.0	35	10

Seedlings and Saplings distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
Seedlings				
Angul	Tomato	900	0.15	12
Angul	Brinjal	1000	0.2	14
Angul	Onion	12000	1.2	50
Angul	Chilli	7000	1.0	500
Angul	Cabbage	200	0.5	10
Angul	Cauliflower	200	0.5	15
Angul	Marigold	15000	1.0	450

Bio-control Agents

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

Bio-Fertilizer

Name of KVK	Bio-Fertilizer	Quantity (kg)	Coverage of Area (ha)	No. of farmers
Angul	Vermi compost	650	0.3	12

Verms Produced

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

Large scale adoption of resource conservation technologies

Name of KVK	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Angul	Cultivation of greengram after harvest of paddy in Zero- till condition	20 ha	35

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
Angul	1	75	-	-	2	70	1	200	1	200	1	25

35. 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	Any Special Remark by Visitors

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

- Farmers appreciated the HYV paddy Sahabhagidhan as it produced 30.3% higher yield in comparision to existing age old variety Khandagiri and higher tiller with drought tolerant capacity during dry spell situation
- Farmers appreciated the Brown manuring in direct sown paddy as it produced 4.5q/ha higher yield with increase in organic carbon content 0.11% and available Nitrogen 37.2 kg/ha for the next crop.
- Farmers appreciated inclusion of allied enterprises in crop based and pond farming system like vermicompost, Azolla,poultry, Mushroom production and bee keeping as it provides appropriate urtilisation of human labour, scientific management of available resources recycling of agricultural waste with emploment
- Farmers appreciated the groundnut variety ICGV-91114 because of its high yield and quality pods

36. Proposed works under NAIP (in NAIP monitoring format)

37. Case study / Success Story

SUCCESS STORY

BACKYARD POULTRY CREATES EXCELLENT IMPACT ON LIVELIHOOD

Name :Mrs. Sarojini Pradhan
Address: Mrs. Sarojini Pradhan
c/o-Prakash Pradhan
Village- Ragudiapada , Grampanchayat: Talagada
Block-Angul ,Dist. Angul
Profile:-
Age : 32 years
Education: Class VIII
Landholding: 2 acres
Farming experiences:
Participated in KVK activities like
Group Discussion ,Farmer's Fair, training programmes, OFT and FLD
KVK intervention: Training , Frontline demonstration

Description of enterprises:

Crop	Area (ac.)	Gross Income(Rs)	Expenditure (Rs.)	Net Return(Rs.
Backyard poultry(Var. Banaraja, R.I.R)	110 birds	1,12,000/-	30,000/-	82,000/-
Kitchen Garden(Coriander)	0.5	30,000/-	11,600/-	18,400/-
Tomato	1	40,141/-	20,141/-	20,000/-
Grocery Shop	-	86,000/-	50,000/-	36,000/-
Total		2,68,141	1,11,741	1,56,400/-

NET INCOME: Rs.1,56,400/-

Impact: Mrs. Sarojini Pradhan purchased 50 more chicks from Angul Poultry Farm. She has also started hatching 10-12 eggs at a time by using local broody hens and sells chicks to other fellow farmers thus making a horizontal dissemination of the technology. Mrs. Pradhan has become a role model for the rural youths and farm women for taking improved backyard poultry as a potential practice for agro-preneurship development leading to sustainable livelihood security. Thus KVK, Angul could make an excellent impact in improving the livelihood status of farming community of the region through relevant intervention of climate resilient technology.

Farm Visit

Kitchen garden

Senior scientist's visit

CASE STUDY

MAKING MARKET WORK FOR THE FARMER: *A CASE STUDY*

Name :Mrs. Kabita Sahu
Address:C/o-Mr. Santosh Pradhan
Village- Jarasingha , Grampanchayat: Kosala
Block-Chendipada ,
Dist. Angul

Profile:-

Age : 37 years
Education: Class IX
Landholding: 2 acres
Farming experiences:
Participated in KVK activities like Group Discussion ,Farmer's Fair, training programmes,exhibition and other mandatory activities

KVK Interventions :

- Motivating her to avoid over-reliance on single crop
- Improved crop production practices
- Practical action on market and livelihood programme
- Supplementing income through various market initiatives like packaging and labelling
- Helping her to identify new market opportunities like making her products more marketable, product promotion activities

Before status:

Mrs. Kabita's condition was worse during 2011-14 by :
Growing single crop (groundnut local variety), repeated droughts and other environmental issues, unjust behaviour of his family members, competition from own people, falling crop and increase cost of inputs.
Hardly made a net earning of Rs 20,000/-

Future Plans include :

- Strengthening her small processing unit
- Processing all types of pulses (Dal processing unit Proposal in her mind)
- Engage in more wider market related activity like linkage with ORMAS
- Registering her federation under producer company act.

AN ECONOMIC OVERVIEW

Crop/Enterprise	**Area (ac.)**	**Gross Income(Rs)**	**Expenditure (Rs.)**	**Net Return(Rs.**
Groundnut (var.ICGV 91114)	2.0	54,000/-	22,500/-	31,,500/-
Scientific packaging of value added products of groundnut, gram and sesamum	Daily selling of 5000 packets @ Rs 10/pkt	50,000/-	11,300/-	38,700/-
Total		**1,04,000/-**	**33,800/-**	**70,200/-**

NET INCOME: Rs.70,000/-

AN ADDITIONAL INCOME OF Rs.50,000/- WITH MARKET RELATED ORIENTATION IN ITSELF A SUCCESSFUL CASE AND SHOWED HOPES TO EXPAND HER OWN SMALL BUSINESS.

			
Crop field	Use of sealing machine for economy food packets	Scientific Packaging for better marketability of products	Product Labeling

Sr. no.	Name of KVK	No. of success stories	No. of case studies
1.	**Angul**	**04**	**02**