ANNUAL PROGRESS REPORT
(April 2014-March 2015)

KVK, DHENKANAL

Orissa University of Agriculture & Technology
Bhubaneswar

Contents

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	**28**	266	
	On Going OFT	**6**	44	
	Technologies assessed (Completed OFT)	**22**	222	
	Technologies refined			
	On farm trials conducted	**22**	222	
2	**Frontline demonstrations**			
	Proposed Frontline demonstrations	29	298	
	On Going Frontline demonstrations	8	47	
	FLDs conducted on crops	15	188	
	Area under crops (ha.)	20.918	188	
	FLD on farm implement and tools	4	40	
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)			
	FLD on Fisheries - Finger lings	4.5	12	
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)			
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	4	50	
3	**Training programmes**	**No. of Course**	**Duration (days)**	**Participants**
	Farmers	46	49	1150
	Farm women	11	15	275
	Rural youth	6	12	90
	Extension personnel/ In service	8	16	120
	Vocational trainings	3	19	30
	Sponsored Training			
	Total	74	111	1665
		No. of programmes	**Participants**	
4	**Extension Programmes**	2724	8324	
5	**Production of technology inputs etc**	**Qty**	**Beneficiaries (nos.)**	
	Seed (qt.)	135		
	Planting material produced (nos.)	8020	170	
6	**Livestock**	**Qty**	**Beneficiaries (nos.)**	
	Livestock strains (Nos)			
	Milk Yield - Cow, Buffelo etc. (in liter)			
	Fish (Kg.)			
	Fingerlings (nos.)			
	Poultry-Eggs (nos.)			
	Ducks (nos.)			
	Chicks etc. (nos.)	508	50	

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.)	**620**	22	
	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)	33	33	
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	8	2000	
	KVK News letter	4	1500	
	SAC Meetings conducted	2	46	
	Soil sample tested	640	640	
	Water sample tested	20	20	
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)			
	KVK-KMA (Message and beneficiaries)	135	1294	
	Convergence programmes	1		
	Sponsored programmes			
	KVK Progressive Farmers interaction	4	130	
	No. of Technology Week Celebrations			
	Attended HRD activities organized by ZPD	7	7	
	Attended HRD activities organized by DES	7	7	
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc.)	2	2	
9	Current status of Revolving Funds (Amt. in Rs.)		24658	
10		**No. of blocks**	**No. of villages**	
	Outreach of KVK in the District	8	76	
11		**ICAR**	**SAU**	**Others**
	No. of important visitors to KVK (nos.)	1	3	
12		**Working (Yes/No)**	**No. of Update**	
	Status of KVK Website	Yes	15	
13		**Application received**	**Application disposed**	
	Status of RTI (nos.)			
14		**Query received**	**Query dissolved**	
	Citizen Charter (nos.)	11	11	
15		**Working (Yes/No)**	**No. of programme viewed**	
	E-connectivity			
16		**Filled**	**Vacant**	
	Staff Position	15	1	
17	Workshop/ Seminar/ Conference attended by staff of KVK (nos)	3		
18	Publication received from ICAR /other organization (nos.)			
19		**Particulars**	**Organization**	
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	Hudhud	ZPD, DEE, Agril Dept.	

GENERAL INFORMATION

1.1. Staff Position (31.03.2015)

Summary of Staff position in KVKs on March, 2015

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

Name of KVK	Sanction post	Name of the incumbent	Discipline	Higist degree	Subject of specilization	Pay scale	Present pay	Date of joiing	Per./Temp.	Category
Dhenkanal	Programme Coordinator	Mr. M. Mohapatra	Agril.Extension	M. Sc. (Ag.)	Extension	15,600-39,100	22220+6000	02.12.13	Permanent	Gen
Dhenkanal	Subject Matter Specialist1	Smt. S. Pal	Home Science	M.Phil	Home Science	15,600-39,100	22220+6000	15.11.07	Temporary	Gen
Dhenkanal	Subject Matter Specialist2	Sri S. Kar	Horticulture	MSc(Ag)	Horticulture	15,600-39,100	19050+6000	01.10.09	Temporary	Gen
Dhenkanal	Subject Matter Specialist3	Sri D Panda	Entomology	M.Sc. (Ag.)	Entomology	15,600-39,100	22220/+6000	06.04.11	Temporary	Gen
Dhenkanal	Subject Matter Specialist4	Smt.D. Paramjita	Agril.Engg	MTech	Soil & Water Conservation Engg	15,600-39,100	18320+6000	07.12.12	Temporary	Gen
Dhenkanal	Subject Matter Specialist5	Sri M.Mohanty	Forestry	MSc (Forestry)	Forestry	15,600-39,100	22220+6000	15.12.12	Temporary	Gen
Dhenkanal	Subject Matter Specialist6									
Dhenkanal	Programme Assistant	Sri. Jashobanta Sahoo	fishery	BFSc.	Fishery	9300-34,800	12930+4200	04.10.09	Temporary	OBC
Dhenkanal	Farm Manager	Sri. Manoj Kumar Pradhan	Seed Technology	Msc(Ag)	Seed Technology	9300-34,800	12930+4200	03.07.12	Temporary	Gen
Dhenkanal	Computer Programmer	Sri. G. D. Moharana	Computer	MCA	Computer	9300-34,800	13450+4200	18.06.12	Temporary	Gen
Dhenkanal	Accountant / superintendent	Sri. K. R. Mohanty	S.O.	BA		9300-34,800	14000+4200	14.02.14	Temporary	Gen
Dhenkanal	Stenographer	Sri G.R. Das	-	B.A.	-	5,200-20,200	7270+2400/-	08.01.07	Temporary	Gen
Dhenkanal	Driver	Sri D.K Pradhan	-	UP	-	5,200-20,200	6350+1900/-	24.07.07	Temporary	Gen
Dhenkanal	Driver	Sri N.M. Sahoo	-	UP	-	5,200-20,200	6860+1900/-	25.07.07	Temporary	Gen
Dhenkanal	Supporting staff	Smt. Ahalya Baral	-	UP	-	4440-7440	5380 + 1300	28.07.08	Temporary	Gen
Dhenkanal	Supporting staff	Sri Kumar Beja	-	UP	-	4440-7440	5790 + 1300	07.10.13	Temporary	Gen

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
Dhenkanal	Mid Central Table Land	08	199	1192801	49.94%	136501 & 197280	108337	1.42 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)
Dhenkanal	Harekrushnapur	2012-13	Dhenkanal Sadar	25 km	1980	95
Dhenkanal	Talabarkota	2014-15	Dhenkanal Sadar	10 km	1660	120
Dhenkanal	Dengobarei	2014-15	Odapada	25 km	506	81
Dhenkanal	Arada	2014-15	Dhenkanal Sadar	12 km	620	88
Dhenkanal	Gurujangulai	2014-15	Kankadahad	65 km	675	75

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

KVK Name	THRUST AREA
Dhenkanal	➢ Cultivation of HYV Rice with improved agro techniques (INM, IWM, IPM)
Dhenkanal	➢ Area expansion and seed production in groundnut
Dhenkanal	➢ Seed replacement in green gram and black gram for higher yield
Dhenkanal	➢ Improved cultivation techniques and area expansion of sugarcane
Dhenkanal	➢ Improved cultivation techniques of vegetables, mango, cashew, spices and tuber crops
Dhenkanal	➢ Composite fish culture, integrated fish farming and ornamental fish culture, polyculture of prawn, magur
Dhenkanal	➢ Back yard poultry rearing, diary, and goatery
Dhenkanal	➢ Mushroom cultivation
Dhenkanal	➢ Bee keeping
Dhenkanal	➢ Soil fertility, vermi-composting
Dhenkanal	➢ Commercial plantation of economically important tree species.
Dhenkanal	➢ Development of Agro-forestry systems

Dhenkanal	➢ Scientific management of minor forest produces

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
Dhenkanal	Poor crop yield due to local varieties, application, inadequate plant population	Through PRA tools and Discussion with the group of farmer	Arada & D. Sadar
Dhenkanal	Imbalance fertilizer management	Through PRA tools and Discussion with the group of farmer	Mahadia & Odapada
Dhenkanal	Yield loss due to insect pest and diseases	Through PRA tools and Discussion with the group of farmer	Majhisahi & Sadar
Dhenkanal	Weed problem	Through PRA tools and Discussion with the group of farmer	Jamujhara & Kamakhyanagar
Dhenkanal	Shortage of quality seeds	Through PRA tools and Discussion with the group of farmer	Bangu & Hindol
Dhenkanal	Low pod yield pulses	Through PRA tools and Discussion with the group of farmer	Deojhar & Gondia
Dhenkanal	Traditional varieties	Through PRA tools and Discussion with the group of farmer	Ekagharia & Odapada
Dhenkanal	Traditional method of sugarcane cultivation	Through PRA tools and Discussion with the group of farmer	Motori & Odapada
Dhenkanal	Lack of proper management practices of winter vegetables	Through PRA tools and Discussion with the group of farmer	Gunadei & Odapada
Dhenkanal	Shortage of planting material	Through PRA tools and Discussion with the group of farmer	Kasiadihi & Odapada
Dhenkanal	Improper management of cashew orchards, un employment problem of rural youths	Through PRA tools and Discussion with the group of farmer	Saptasajya & Sadar
Dhenkanal	Un availability planting material and lack of knowledge about scientific method of cultivation.	Through PRA tools and Discussion with the group of farmer	Gajamara & Sadar
Dhenkanal	Lack of knowledge about scientific method of cultivation.	Through PRA tools and Discussion with the group of farmer	Bhangamal & Sadar
Dhenkanal	Insect pest attack	Through PRA tools and Discussion with	Parbatia & Sadar

		the group of farmer	
Dhenkanal	Low income due to traditional method of fish culture	Through PRA tools and Discussion with the group of farmer	Jamujhara & Kamakhyanagar
Dhenkanal	Aquatic Weed	Through PRA tools and Discussion with the group of farmer	Bangu & Hindol
Dhenkanal	Lack of feeding	Through PRA tools and Discussion with the group of farmer	Deojhar & Gondia
Dhenkanal	Diseases	Through PRA tools and Discussion with the group of farmer	Lambador pur & Hindol
Dhenkanal	Non availability of ornamental fishes	Through PRA tools and Discussion with the group of farmer	Harekrusnhapur & Sadar
Dhenkanal	Low milk yield of desi cows	Through PRA tools and Discussion with the group of farmer	Belpada & Odapada
Dhenkanal	Low body weight of desi birds	Through PRA tools and Discussion with the group of farmer	Dengabarei & Sadar
Dhenkanal	Under utilization of Rice straw	Through PRA tools and Discussion with the group of farmer	Lambador pur & Hindol
Dhenkanal	Under utilization of oyster mushroom cultivation	Through PRA tools and Discussion with the group of farmer	Bangursingh & Odapada
Dhenkanal	Improper utilization of family labour and home stead lands	Through PRA tools and Discussion with the group of farmer	Salipur & Kankadahad
Dhenkanal	Problematic soil Low organic matter content in the soil. Llittle knowledge about fertilizer doses	Through PRA tools and Discussion with the group of farmer	Khalibandha & Sadar
Dhenkanal	Shortage of quality timbers	Through PRA tools and Discussion with the group of farmer	Nuagaon & Sadar
Dhenkanal	Unutilization of Waste land	Through PRA tools and Discussion with the group of farmer	Deojhar & Gondia
Dhenkanal	Shortage of quality timbers, unutilized farm bunds	Through PRA tools and Discussion with the group of farmer	Jamujhara & Kamakhyanagar
Dhenkanal	Lack of quality planting material of forest species	Through PRA tools and Discussion with the group of farmer	Bangu & Hindol

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	
Dhenkanal	2014-15	Kharif	Low Income due to lack of management resources.	Assessment of horti-based farming System Model	`Assessment	ICM	Cowpea-Cabbage-Coriander	Irrigated upland	12	302	364	377	179100	221000	231600	Cowpea Base farming system is cost effective and maintain soil health and helpful for second crop. How ever Cow pea –cabbage-coriander with banana & papaya cropping system results well.
Dhenkanal	2014-15	Kharif	Low return from upland rice	Assessment of Kharif onion varieties.	Assessment	ICM	Onion	Up land irrigated	16	119	145	168	134150	169500	206300	Kharif onion varieties has 40% mortality rate, where as late Kharif and pre rabi planting of Bheema Super variety results well.
Dhenkanal	2014-15	Rabi	Low yield and return due to wilting	Assessment of Brinjal varieties	Assessment	Varietal evaluation	Brinjal	Irrigated medium land	13	245	380	365	78750	149000	140750	Tarini variety results well where as Swarna Prativa variety of Brinjal vigorous growth habit and have purple colour fruits. The

																variety has good market demand.
Dhenkanal	2014-15	Rabi	Low profit per unit area due to less number of plants	Assessment of Planting geometry in banana (4:9)	Assessment	Production and management.	Tissue culture Banana	Irrigated medium land	10							Programme is continuing…..
Dhenkanal	2014-15	Rabi	Less fruit and low yield	Assessment of plant growth regulator (PGR) on Bitter gourd	Assessment	ICM	Bitter gourd	Irrigated medium land	07	29	109	91	13888	154580	118640	Application of PGR like Tricontanol 2ml/lit at 2-4 leaf stage and Ethephone 2.5ml./10l of water before 15 Days of flowering has good yield potentiality where as GA application enhance the number of flower and effective fruit setting in adverse situation.
Dhenkanal	2014	Kharif	Yield loss due to heavy infestation of pod borer	Assessment of IPM in pod borer management in pigeon pea	Assessment	IPM	Pigeon pea	Rainfed Medium land	5	9.6	14.44	14.0	31500	51700	50500	
Dhenkanal	2014	Kharif	Low yield of groundnut due to high incidence of collar rot	Assessment of collar rot management in groundnut	Assessment	IDM	Groundnut	Rainfed, upland	7	6.1	8.2	7.9	6200	11400	10700	
Dhenka	2014	Rabi	Low yield	Assessment	Assessment	IPM	Paddy	Irrigated	6	37.5	44.4	41.4	28554	35220	32820	

nal	-15		of summer paddy due to high infestation of stem borer	of broad spectrum pesticide and bio agent for controlling stem borer in summer paddy				medium land		8						
Dhenkanal	2014-15	Rabi	Low yield of cowpea due to high infestation of aphids	Assessment of aphid management in cow pea in rainfed cow pea cropping system	Assessment	IPM	Cowpea	Paddy cowpea cropping system	6	67.55	84.43	82.28	61660	79416	78136	
Dhenkanal	2014-15	Rabi	Low yield of cucumber due to high incidence of downey mildew	Assessment of carbendazim with mancozeb for controlling downey mildew of cucumber	Assessment	IDM	Cucumber	Rainfed, upland, paddy – veg	6	138.6	175.5	171.5	165140	214100	192310	
Dhenkanal	2014	Kharif	Low yield due to improper nutrient management	Assessment of INM in sesamum	Assessment	INM	Sesamum	Rainfed Upland	13	3.5	5.2	4.1	4400	10800	6900	Soil test besed recommended fertilizer dose along with bio fertilizer @ 4kg each and sulphur 20kg/ha increases yield
Dhenkanal	2014	Kharif	Low yield and poor quality curd formation	Assessment of biofertilizer management in Cauliflower	Assessment	INM	Cauliflower	Rainfed Medium land	13	197	260	233	66000	136500	107800	Soil test based fertilizer and biofertilizer application improves quality and yield of product.
Dhenkan	2014	Rabi	Small head	Assessment	Assessment	INM	Cabbage	Irrigated	13	210.	297	254	49000	90200	55200	Vermicompost

al	-15		size and low yield	of application of vermin-compost and boron in Cabbage				Medium land		3						and Boron application improves the head size and weight
Dhenkanal	2014-15	Rabi	Low yield due to imbalance use of fertilizer	Assessment of foliar spray of DAP and Boron in Greengram	Assessment	INM	Greengram	Irrigated Medium land	5	5.4	7	6	4300	10900	6000	INM increases the yield
Dhenkanal	2014	Kharif	High labour cost and time involved in manual random transplanting and line transplanting	Assessment of 8-row self propelled Rice Transplanter	Assessment	Farm Mechanization	Paddy	Rainfed Medium land	13	39.7	44.06	43.5	30892	38922	34060	Line transplanting of Paddy through transplanter reduces labour cost but require skill in operation and nursery raising.
Dhenkanal	2014	Kharif	High labour intensive & cost involved in manual weeding	Assessment of Paddy Power Weeder	Assessment	Farm Mechanization	Paddy	Rainfed Medium land	13	42.5	43.8		31800	34068	-	Weeding in Paddy through Paddy power weeder increases yield and reduces labour cost. It is easy to operate
Dhenkanal	2014-15	Rabi	High labour cost and more time involved in large area groundnut sowing, improper plant population	Assessment of Power Tiller operated 5-row seed cum fertilizer drill in sowing groundnut	Assessment	Farm Mechanization	Paddy	Rainfed Upland	13	15.3	17.4	17.1	34800	45000	43350	Line sowing through seeddrill increases yield but requires proper field preparation before sowing.
Dhenkanal	2014-15	Rabi	Low yield, disease infestation	Assessment of Drip Irrigation in	Assessment	Micro Irrigation	Crop	Irrigated Upland	01	236	292.5		69380	90435		Since River is the source of water supply,

			and scarcity of water throughout the cropping season	Watermelon												filter needs regular maintenance.
Dhenkanal	2014	Kharif	Less kernel produced by traditional method (5kg seed / man day)	Assessment of manually operated mahua seed decorticator	Assessment	Value addition	Mahua seed decorticator	Rainfed upland	13							Result awaited
Dhenkanal	2014-15	Rabi	Incorporation of partially decomposed FYM in excess into mother bed, excess watering and full time shade leading to withering of seedlings at collar region and hence large scale casualty	Assessment of systemic fungicide along with cultural practices to check damping off eucalypt mother bed	Assessment	Agro forestry	Eucalyptus	Rainfed, upland	8	196 500 seedlings / 100 sqm	272 700 seedlings / 100 sqm		13175 / 100 sqm	20857 / 100 sqm		The OFT will be executed in the form of FLD during Rabi 2016
Dhenkanal	2014	Kharif	Less biomass i.e. grain, wood and pasture production from a unit of land	Assessment of agri-silvipastoral system for rainfed uplands	Assessment	Agro forestry	Sissu, Eucalypt, hybrid napier & arhar	Rainfed upland	5							Result awaited

Dhenkanal	2014-15	Rabi	Sprouting of mal formed shoots, susceptible to wind, overally less biomass production	Assessment of coppicing technique in biomass production of eucalypt crop	Assessment	Agro forestry	Eucalyptus	Rainfed upland	8							Result awaited
Dhenkanal	2014	Kharif	primary production is very less during winter	Assessment of efficacy of liquid micro nutrients in sustaining phytoplankton bloom during winter	Assessment	INM	IMC	Small to medium tanks, perennial - intensive	4							3-species IMC composite pisciculture with intercropping of Java Punti @ Catla Punti:Rohu: Mrigal::3:2:4:3
Dhenkanal	2014	Kharif	Three species IMC culture only	Assessment of intercropping Java Punti in three species IMC culture	Assessment	Production & management	IMC	Small to medium tanks, perennial - intensive	4							Application of liquid micronutrients premix containing Zn – 6%, Mg – 2%, Mn-2%, B- 1%, Mb-traces@1L/ac-mt / month

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)
Dhenkan	Assessment of horti-based	No of fruits per plant	18	20	62500	70000	70000	241600	291000	301600	179100	221000	231600	3.86	4.15	4.30

al	farming System Model															
Dhenkanal	Assessment of Kharif onion varieties.	Bulb weight(gm)	35.8	48	56250	62500	62500	190400	232000	268800	134150	169500	206300	3.38	3.71	4.30
Dhenkanal	Assessment of Brinjal varieties	Fruit weight (gm)	115	120	56000	60000	60000	134750	209000	200750	78750	149000	140750	1.04	3.48	3.45
Dhenkanal	Assessment of Planting geometry in banana (4:9)	Number of fingers /plant	Contd.													
Dhenkanal	Assessment of plant growth regulator (PGR) on Bitter gourd	Average numbers of fruits per plant	16	30	50000	85000	82000	63888	239580	200640	13888	154580	118640	1.28	2.81	2.45
Dhenkanal	Assessment of IPM in pod borer management in pigeon pea	% Pest infestation	32	6	16500	20500		48000	72200		31500	51700		2.9	3.5	
Dhenkanal	Assessment of collar rot management in groundnut	% disease incidence	12	5	18200	21400		24400	32800		6200	11400		1.3	1.5	
Dhenkanal	Assessment of broad spectrum pesticide and bio agent for controlling stem borer in summer paddy	% of dead heart , % of white earhead	9.9, 8.1	4.0, 2.8	20300	22500		48854	57720		28554	35220		2.4	2.6	
Dhenkanal	Assessment of aphid mana-gement in cow pea in rainfed cow pea crop-ping system	No. of aphids / 10 cm Twig	34	14	19400	21900		81060	101316		61660	79416		4.1	4.6	
Dhenkanal	Assessment of carbendazim with mancozeb for controlling downey	% leaf area infestation	22	4	28900	31600		194040	245700		165140	214100		6.7	7.8	

	mildew of cucumber															
Dhenkanal	Assessment of INM in sesamum	Yield (qtl/ha)	3.5	5.2	12450	18000		16850	28800		4400	10800		1.35	1.6	
Dhenkanal	Assessment of biofertilizer management in Cauliflower	Curd size (cm) Curd weight (Kg)	17, 1.4	26, 3.6	44000	62000		110000	198500		66000	136500		2.5	3.2	
Dhenkanal	Assessment of application of vermicompost and Boron in Cabbage	Head weight (Kg)	2.1	4.1	36000	44000		85000	134200		49000	90200		2.36	3.05	
Dhenkanal	Assessment of foliar spray of DAP and Boron in Greengram	No. of pods / plant, No. of seeds /pod	14.25, 6.52	25.3, 8.78	16200	19800		20500	30700		4300	10900		1.26	1.55	
Dhenkanal	Assessment of 8-row self propelled Rice Transplanter	Labour requirement – MDs/ha	30	3	24100	22000		53992	59922		30892	38922		2.24	2.72	
Dhenkanal	Assessment of Paddy Power Weeder	Labour requirement- MDs/ha	12	2	26000	25500		57800	59568		31800	34068		2.22	2.34	
Dhenkanal	Assessment of Power Tiller operated 5-row seed cum fertilizer drill in sowing groundnut	Labour requirement- MDs/ha	4	1	26400	24600		61200	69600		34800	45000		2.31	2.82	
Dhenkanal	Assessment of Drip Irrigation in Watermelon	Water consumption- cm	80	51.2	48620	54725		118000	146250		69380	90435		2.42	2.67	
Dhenkanal	Assessment of manually operated mahua seed decorticator	EER (KJ/min), WHR (Beats/min), CC (Beats / kg)														
Dhe	Assessment of	Seedling	34.5,	9.1,	6475	6413 /		19650 /	27270		13175 /	20857 /		3.0	4.2	

nkanal	systemic fungicide along with cultural practices to check damping off eucalypt mother bed	casualty %, Root length cm, shoot length cm	2.85, 8.83	3.41, 9.41	/ 100 sqm	100 sqm		100 sqm	/ 100 sqm		100 sqm	100 sqm		3	5	
Dhenkanal	Assessment of agri-silvipastoral system for rainfed uplands	Grain production (kg), Biomass production (kg)														
Dhenkanal	Assessment of coppicing technique in biomass production of eucalypt crop	Shoot ht. (cm), Shoot Dia (cm), Biomass (cum)														
Dhenkanal	Assessment of efficacy of liquid micro nutrients in sustaining phytoplankton bloom during winter															
Dhenkanal	Assessment of intercropping Java Punti in three species IMC culture															

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
Dhenkanal	2014-15	Kharif1 4	Non availability	Assessment of Azolla	Assessment	Nutritional Support	Use of Azolla cattle feed in 2:1	Multiplication of Azolla (Variety.	Homestead	13	

			of green fodder and excess cost of commercial feed	supportive feed for mulching cows			ratio (Commercial feed and Azolla)	*Azolla caroliniana)* in low cost tank /pit of size 2mX1.5mX20cm and feeding 1-1.5kg Azolla per cow per day			
Dhenkanal	2014-15	Rabi14-15	Low income due to low yield	Assessment of Oyster Mushroom variety – Hyspizygous ulmarius	Assessment	Income Generation	Oyster Mushroom Cultivation Var. *Hypsizygous ulmarius*	Colour of mushroom is bluish grey during initiation of fruiting, later it changes to white in our climate. Average fruit body weight-31g,Biological effiency-103%,Texture of fruit-Fleshy	Homestead	13	
Dhenkanal	2014-15	Rabi14-15	Weight loss & detoriotion in quality in greengram due to infestation of pulse beetle	Assessment of TNAU Insect Trap for safe storage of pulse	Assessment	Storage loss minimization techniques	The stored grain insects enter the TNAU trap through the perforations and reach the stem of the trap. In the stem, as the insects cannot move upward and escape, they move towards the bottom and reach the pit fall placed at the bottom.	Suited only for bin storage. 2 or 3 traps can be placed at 15 to 20 cm depth in a bin of 30 to 45 cm diameter and 25 kg capacity for maximum benefit.	Homestead	13	
Dhenkanal	2014-15	Rabi14-15	Non availability of processed stone apple products in off season.	Assessment of Preparation of RTS from Raw Stone Apple	Assessment	Value Addition	Besides consumption of ripe fruit, raw fruit processing enhance medicinal value and availability in off season Cleaned stone apple is sliced, soaked in 50^0 C	Cleaned stone apple is sliced, soaked in 50 degree centigrade hot water for 10 min; Pulp is extracted and boiled for 15 min; strained and pulp is mixed with sugar syrup (80 litre water, 20 kg sugar, 0.3% citric acid, 0.1 %	Homestead	13	

							hot water for 10 min; Pulp is extracted and boiled for 15 min; strained and pulp is mixed with sugar syrup (80 l water, 20 kg sugar, 0.3% citric acid, 0.1 % KMS);	KMS);			

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		Incremental income		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		
Dhenkanal	Assessment of Azolla supportive feed for mulching cows											10 litre per day per cow	11.5 litre per day per cow	99	89		47.5	10 litre per day per cow	11.5 litre per day per cow	191	198.5	47.5	T1=2.5 T2=3.2
Dhenkanal	Assessment of Oyster Mushroom variety – Hyspizygous ulmarius											1.7 kg per bag	2.1 kg per bag	38	38		20	1.7 kg per bag	2.1 kg per bag	47	67	20	T1=2.2 T2=2.76
Dhenkanal	Assessment of TNAU Insect Trap for safe storage of pulse													1350	1460		205			50	745	205	T1=1.03 T2=1.5

Dhenkanal	Assessment of Preparation of RTS from Raw Stone Apple											100 litresper 25 kg ripe stone apple	500 bottles (200 ml) per 25 kg stone apple	1050	3260		2690	4 litres per 25 kg ripe stone apple	500 bottles (200 ml) per 25 kg stone apple	1550	4240	2690	T1=1.4 T2=2.3

2.5 Feedback from KVK to Research System

Name of KVK	Feedback
Dhenkanal	Suitability of different Horticulture base cropping system and crop rotation module for this zone may be research.
Dhenkanal	Research on improvement of Bitter gourd varieties and its pollination management.
Dhenkanal	Drip irrigation in Watermelon requires regular maintenance of filters and pipes, particularly when the source of water supply is river water.
Dhenkanal	In case of field area, where the Bund height is very high, it is very difficult to move the transplanter from one field to another field. Therefore weight of the Transplanter may be reduced.
Dhenkanal	Eucalyptus hybrid seed, Karnataka origin is a good source of seed. Seed gives maximum germination alongwith good vigour seedlings. Also more than 70% seedlings are lesser more stature establishment and growth performance sometimes super seeds those of clonal origin
Dhenkanal	Watering to seedlings in raised bed should not exceed field capacity. Population density should be approximately 2100 / sqm
Dhenkanal	Drenching with bavistin (1%) is a based measure against damping off root rot

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
Dhenkanal	PGR in Brinjal	ICM	Application of PGR (GA) in Brinjal @60ppm before flowering.	GA application @ 60 ppm during dry period has bumper yield potential and from a single crop through-out the Year Brinjal can produce by plant management process.	20	160	50
Dhenkanal	Teasle gourd Variety Arka Neelanchal Gourav	ICM	Cultivation of ANG Variety of Teasle gourd by adopting hand pollination during Day anthesis period	Teasle Gourd variety ANG has a good potentiality and planting materials can produce by sleeves cutting and multiplying and farming in trellis system.	08	16	05
Dhenkanal	Bitter gourd	ICM	Application of PGR Tricontanol @2ml/lit of water in 2-4 leaf stage.	Application of Tricontanol @2ml/lit of water in 2-4 leaf stage increases the vine length and number of flower bud formation.	10	42	10
Dhenkanal	Onion	ICM	Application of Organic Fertilizer in Onion	Application of Biofertilizer in Onion variety N-53 Azospirilium & PSB Bacillus thuriengenesis +Trichoderma viridae @ 10 Kg each / ha.	05	08	03
Dhenkanal	Enterprise	Farm Mechanization	seeding of pregerminated paddy seeds in puddle field with a spacing of 20 cm through 8 rows drum seeder with field capacity of 0.12ha/hr	Training, demonstrations, Group meeting, leaflets, flex, CD	35	15000	7000
Dhenkanal	Enterprise	Farm Mechanization	Use of Reaper of 3.5hp petrol start kerosenegine, Cutting width – 1.2m, field capacity – 0.2ha/h	Training, demonstrations, Group meeting, flex, CD	22	8000	3900
Dhenkanal	Eucalyptus	Plant production	Clones of eucalyptus will be planted (2mx2m) with proper tending operation with biomass production more than $20m^3$/ha/yr	Group Disscussion, Field visit, Field day, Display of the video of plantation among farming community during training, fair etc.	18	26	14
Dhenkanal	Bamboo	Plant production	Cut piece (3-4 noded) of full round culm of 1 yr old bamboo will be layered horizontally (5 cm deep)	Group Disscussion, Field visit, Field day, Display of the video of plantation among farming community during training, fair, leaflet etc.	30	35	20

			in 2nd week of June				

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
Dhenkanal	2014-15	Kharif	ICM	Use of resistant and bumper yield tomato variety Swarna Sampad with good keeping quality	Tomato	Swarna Sampad	0.40	56	94.69	69.08	06	01	08	00	15
Dhenkanal	2014-15	Kharif-Rabi-	ICM	Use of PGR Gibberellins @100 ppm before 15 Days of flowering of Brinjal.	Brinjal	Green Star	0.64	204	341	67.15	02	00	07	02	11
Dhenkanal	2014-15	Rabi	IGA	Grading in three phase for local, for out side District and for out side State by using ethylene, fungicide and polypropylene packaging material	Mango	PHM Mango	1.0	Contd..							
Dhenkanal	2014	Kharif	IPM	Spraying of Tricyclazole @ 1gm per lit of water controlling Blast in Paddy	Paddy	Swarna	1.0	38.2	43.5	13.87			13		13
Dhenkanal	2014	Kharif	IPM	Spraying of Buprofezin 25% SC @ 1.0 ml/litre twice at 15 days interval controlling BPH in Paddy	Paddy	Swarna	1.0	37.13	46.26	24.58			13		13
Dhenkanal	2014-15	Rabi	IPM	Spraying of Flubendiamide 3.5ml / 15 lits of water in variety Bluestar for controlling Shoot & Fruit Borer in Brinjal	Brinjal	Greenstar	1.0	246.1	288.9	17.39			10		10
Dhenkanal	2015	Kharif	ICM	Cultivation of groundnut var. Devi with all package of practices	Groundnut	Devi	5.0	15.14	20.0	32.10			25		25
Dhenkanal	2015	Kharif	ICM	Cultivation of arhar var. Asha with all package of practices	Arhar	Asha	5.0	8.7	11.2	28.73			25		25

Dhenkanal	2014-15	Rabi	IPM	use of tricho cards@ 50,000/ha for 5 to 6 times from the appearance of the borer for controlling early Shoot Borer in Sugarcane	Sugarcane	CO-3	1.0								
Dhenkanal	2014	Kharif	INM	Application of Boron and sulphur in Groundnut	Groundnut	Devi	1.0	15.1	19.3	27.8			10		10
Dhenkanal	2014-15	Rabi	INM	Application of Boron in Potato	Potato	Kufri jyoti	1.0	244	298	22			10		10
Dhenkanal	2014-15	Rabi	INM	Application of Boron and sulphur in Onion	Onion	N-53	1.0	197	238	21			10		10
Dhenkanal	2014-15	Rabi	INM	Application of zinc and biofertilizer in Maize	Maize		1.0	23.5	28.7	22			5		5
Dhenkanal	2014	Kharif	Farm Mechanization	seeding of pregerminated paddy seeds in puddle field with a spacing of 20 cm through 8 rows drum seeder with field capacity of 0.12ha/hr	Paddy	Kalachampa	1.0	42.3	43.9	3.78	1		9		10
Dhenkanal	2014-15	Rabi	Farm Mechanization	Use of Reaper of 3.5hp petrol start kerosenegine, Cutting width – 1.2m, field capacity – 0.2ha/h	Paddy	1001	1.0	45	45		4		6		10
Dhenkanal	2014-15	Rabi	Farm Mechanization	Use of Tractor operated Axial flow Thresher with threshing capacity (8-10) q/hr	Paddy	Swarna	1.0	43.2	43.2		1		9		10
Dhenkanal	2014-15	Rabi	Farm Mechanization	oscillating section of machine decorticates by rubbing action, the decorticated shells and cornels fallen down through the perforated concave sieves and the blower helps to separate the kernels from husk	Groundnut	Devi	1.0	15.4	15.4				10		10
Dhenkanal	2014	Kharif	Agro forestry	Seedlings of Sissu will be raised in 500CC root trainer having vertical root training ribs filled up with prescribed mixture	Rose wood	Dalbergia Sissu	8 nos	0.37 (root : shoot)	0.71 (root : shoot)	91.8	2	1	3	2	8

Dhenkanal	2014	Kharif	Agro forestry	Juvenile branches (<1 yr old)of Sundarkani Bamboo having 4-5 nodes will be layered in soil horizontally around monsoon	Bamboo	Bambusa vulgaris	0.06	400 seedling / 100 sqm	583 seedling / 100 sqm	45.7	3		3		6
Dhenkanal	2014	Kharif	Agro forestry	Brood lac (10g) will be inoculated in 2 year old, shoots of Flemingia semilata followed by prescribed culture practices	Kusmi Lac	Aghani Crop	0.11						5		5
Dhenkanal	2014-15	Rabi	Agro forestry	Elite seedlings of D. sissoo will be planted at 3x3 spacing with proper tending operations	Sissu	Dalbergia sissu	0.5						5		5
Dhenkanal	2014-15	Rabi	Agro forestry	Brood lac @ 15g per 1 m length branch will be inoculated in kusum plant followed by prescribed cultural practices	Kusmi lac	Jethwi crop	0.208					8	2		10
Dhenkanal	2014	Kharif	Production & Management	Composite pisciculture with stocking ratio@ catla:rohu: medium carps:mrigal::3:2:3:2.	IMC	Labeo gonius, Labeo fimbriatus.	1.5						2	2	4
Dhenkanal	2014	Kharif	Production & Management	Alum treatment @ 4ppm just after usual lime treatment clears water turbidity	Alum	Commercial grade alum (Flocculants)	1.5						2	2	4
Dhenkanal	2014	Kharif	IGA	Fresh water prawn @10000 nos / ha 1.5 in size with IMC	IMC & Prawn	M.Rosenbergii	1.5						2	2	4

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)
Dhenkanal	Use of resistant and bumper yield tomato variety Swarna Sampad with good keeping quality	Swarna Sampad.	Fruit wt (gm)	33.6	48.7	31250	35000	84000	142035	52750	107035	2.688	4.058

Dhenkanal	Use of PGR Gibberellins @100 ppm before 15 Days of flowering of Brinjal.	Green Star	Fruit wt (gm)	110	115	56250	60000	112200	187550	55950	127550	1.99	3.12
Dhenkanal	Grading in three phase for local, for out side District and for out side State by using ethylene, fungicide and polypropylene packaging material	PHM Mango	Continued..										
Dhenkanal	Spraying of Tricyclazole @ 1gm per lit of water controlling Blast in Paddy	Paddy	% disease incidence in leaf area	22.7	12.4	19500	20600	49660	56550	30160	35950	2.54	2.7
Dhenkanal	Spraying of Buprofezin 25% SC @ 1.0 ml/litre twice at 15 days interval controlling BPH in Paddy	Paddy	avg. BPH nos. / hill	23	7	19100	21100	48269	60138	29169	39038	2.5	2.8
Dhenkanal	Spraying of Flubendiamide 3.5ml / 15 lits of water in variety Bluestar for controlling Shoot & Fruit Borer in Brinjal	Brinjal	% of shoot damage, % of fruit damage	15, 24	6, 8	38000	39300	196880	231120	158880	191820	5.1	5.8
Dhenkanal	use of tricho cards@ 50,000/ha for 5 to 6 times from the appearance of the borer for controlling early Shoot Borer in Sugarcane	Sugarcane	Continued..										
Dhenkanal	Cultivation of groundnut var. Devi with all package of practices	Groundnut	Yield (qtl/ ha)	15.14	20.0	28320	34572	60560	80000	34240	46428	2.30	2.53
Dhenkanal	Cultivation of arhar var. Asha with all package of practices	Arhar	Yield (qtl/ ha)	8.7	11.2	17610	21480	30450	39200	12840	17720	1.72	1.82
Dhenkanal	Application of Boron and sulphur in Groundnut	Groundnut	No. of Pods /plant	16	21	30200	34000	59800	76200	29600	42200	1.98	2.24
Dhenkanal	Application of Boron in Potato	Potato	Yield (qtl/ha)	244	298	55000	64000	117500	153800	62500	89800	2.13	2.4
Dhenkanal	Application of Boron and sulphur in Onion	Onion	Yield (qtl/ha)	197	238	57000	69000	122000	168000	65000	99000	2.14	2.43
Dhenkanal	Application of zinc and biofertilizer in Maize	Maize	Yield (qtl/ha)	23.5	28.7	22000	27000	56000	78000	34000	51000	2.54	2.86
Dhenkanal	seeding of peregrinated paddy seeds in puddle field with a spacing of 20 cm through 8 rows drum seeder with field capacity of 0.12ha/hr	Paddy Drum Seeder	Field capacity-(ha/h), labour requirement-(MDs/ha)	0.004, 28	0.12, 2	26036	21436	57528	59704	31492	38268	2.20	2.78

Dhenkanal	Use of Reaper of 3.5hp petrol start kerosenegine, Cutting width – 1.2m, field capacity – 0.2ha/h	Paddy Reaper	Field capacity-(ha/h), Labour requirement-(MDs/ha)	0.005, 25	0.2, 0.625	25720	23220	61200	61200	35480	37980	2.37	2.63
Dhenkanal	Use of Tractor operated Axial flow Thresher with threshing capacity (8-10) q/hr	Tractor operated Axial Flow Thresher	Field capacity-(qtl/h), Labour requirement-(MDs/qtl)	1.5, 0.083	12, 0.01	26835	23465	58752	58752	31917	35287	2.18	2.50
Dhenkanal	oscillating section of machine decorticates by rubbing action, the decorticated shells and cornels fallen down through the perforated concave sieves and the blower helps to separate the kernels from husk	Power operated Groundnut Decorticator	Field capacity-(qtl/h), Labour requirement-(MDs/qtl)	0.02, 6.25	0.92, 0.136	28036	22800	61600	61600	33564	38800	2.19	2.70
Dhenkanal	Seedlings of Sissu will be raised in 500CC root trainer having vertical root training ribs filled up with prescribed mixture	Rose wood	Secondary root number, root length cm, shoot length cm	9.2, 14, 37.5	11, 25.1, 35.5	2775	4440	5550	8880	2775	4440	2.0	2.0
Dhenkanal	Juvenile branches (<1 yr old)of Sundarkani Bamboo having 4-5 nodes will be layered in soil horizontally around monsoon	Bamboo	Node sprouted %, No. of shoot / node, shoot length cm	70, 3.7, 84	59, 2.3, 52.3	3666	1666	4333	2833	667	1666	1.2	1.7
Dhenkanal	Brood lac (10g) will be inoculated in 2 year old, shoots of Flemingia semilata followed by prescribed culture practices	Kusmi Lac	Insect density (No. / cm^2), lac yield kg/ha										
Dhenkanal	Elite seedlings of D. sissoo will be planted at 3x3 spacing with proper tending operations	Sissu	Casualty %, Plant ht cm, collar dia cm										
Dhenkanal	Brood lac @ 15g per 1 m length branch will be inoculated in kusum plant followed by prescribed cultural practices	Kusmi lac	Insect density (No. / cm^2), lac yield kg/ha										

Dhenkanal	Composite pisciculture with stocking ratio@ catla:rohu: medium carps:mrigal::3:2:3:2.	IMC	Continued..										
Dhenkanal	Alum treatment @ 4ppm just after usual lime treatment clears water turbidity	Alum	Continued..										
Dhenkanal	Fresh water prawn @10000 nos / ha 1.5 in size with IMC	IMC & Prawn	Continued..										

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
Dhenkanal	2014-15	Kharif-2014	Income Generation	Low income of farm women	Backyard rearing of poultry for farm women, 150 to 180 eggs / yr, 3 to 4 kg meat/ yr	Enterprise	Poultry	Homestead	200 Birds	20 Nos
Dhenkanal	2014-15	Rabi 2014-15	Small scale IGA	Post harvest loss due to inadequate access to refrigeration facility	Temp. of zero energy cool chamber remains within 10 to 15 degree centigrade in which the self life of leafy vegetablesupto 3days, other veg. 5days, patatoes-52days, mango-8days; Length-165cm, breadth-115cm,height-67.5cm with a cavity of 7.5cm	Enterprise	Zero Energy Cool Chamber	Homestead	2 Units	10 Nos
Dhenkanal	2014-15	Rabi 2014-15	Drudgery Reduction	Planting of sugarcane is a drudgery prone activity and more seed material is required (30qtl/ha)	It removes the buds from the node of the sugarcane and minimises the time ,money and also seed rates(80qtl/ha); Field capacity 250 buds /hr. seed rate 3qtl/ha	Enterprise	Sugar cane Bud Chipper	Homestead	10 Nos	10 Nos

Dhenkanal	2014-15	Rabi 2014-15	Income Generation	Lack of knowledge and skill on preparation of value added products from peanut leads to low income	Roasting of cleaned peanut kernel to remove red skin The kernels are ground in a grinding machine with addition of hydrogenated vegetable oil at 5% level and salt at 2% level to a smooth fine paste	Enterprise	Preparation of value added products	Homestead	10 Nos	10 Nos

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		Incremental income		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		
Dhenkanal	Backyard rearing of poultry for farm women, 150 to 180 eggs / yr, 3 to 4 kg meat/ yr											1kg/ Bird	2.9kg/ Bird	Rs30/ Bird	Rs51/ Bird	NA	Rs302 / Bird	1kg/ Bird	2.9kg/ Bird	Rs140 / Bird	Rs 442 /Bird	Rs302 / Bird	T1 = 5.6 T2 = 8.7
Dhenkanal	Temp. of zero energy cool chamber remains within 10 to 15 degree centigrade in which the self life of leafy vegetablesupto3days,other veg.-5days,patatoes-52days,mango-8days; Length-165cm,breadth-											NA	1200kg/yr	NA	Rs 800/-	NA	Rs 3600/-	NA	1200kg/yr	NA	Rs 2800/unit/yr	Rs 3600/-	T2 = 4.5

	115cm,height-67.5cm with a cavity of 7.5cm																						
Dhenkanal	It removes the buds from the node of the sugarcane and minimises the time ,money and also seed rates(80qtl/ha); Field capacity 250 buds /hr. seed rate 3qtl/ha	153 sets/hour	288 Buds/ hour	9.88	10.67	117	122	NA	43	NA	88												
Dhenkanal	Roasting of cleaned peanut kernel to remove red skin The kernels are ground in a grinding machine with addition of hydrogenated vegetable oil at 5% level and salt at 2% level to a smooth fine paste											NA	9.2 kg Peanut Butter from 10 kg peanut	Rs800/ 10kg Peanut	Rs 830	NA	Rs 3680/-	NA	9.2 kg Peanut Butter from 10 kg peanut	NA	Rs 2850/-	Rs 3680/-	T2 = 4.4

3.6 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Dhenkanal	Onion	Training on Organic Onion Farming Training on Off season onion farming	02	50	Aware about Organic Onion Farming and done off season onion in Kharif
Dhenkanal	Mango	Training on cultivation of vegetables in Mango Orchard.	01	25	Aware and done vegetables inside mango Orchard
Dhenkanal	Tomato	Training on Supply chain Management and marketing of Tomato	01	25	Harvest tomato graded, and market through plastic crates and bamboo crates
Dhenkanal	Brinjal	Training, Group meeting, Field day, Field demonstrations, Soil test campaign	10	275	Farmers were interested about application of PGR
Dhenkanal	*Sugarcane*	Training, Group meeting, Field demonstrations	5	200	Farmers were happy about knowing Trico cards

Dhenkanal	Paddy	Training, Group Meeting, Leaflets, Method Demonstrations, Film show, Field day	25	1000	Farmers were satisfied with the implement by operating themselves.
Dhenkanal	Groundnut	Training, Group Meeting, Field demonstrations, Film show, Field Day	10	375	Farmers were eager to know about field capacity of Groundnut decorticator.
Dhenkanal	Potato	Training, Group Meeting, Field demonstrations, Field Day	06	300	Farmers were satisfied about the technology.
Dhenkanal	Onion	Training, Group meeting, Field day, Field demonstrations, Soil test campaign	10	425	Farmers were enthusiastic about soil test
Dhenkanal	Maize	Training, Group meeting, Field demonstrations	05	125	Farmers learnt the application of soil test based fertilizer in Maize
Dhenkanal	Poultry	Training, Group meeting, Field demonstrations	2	50	Tribal farm Women found the enterprise quite remunerative
Dhenkanal	Zero energy cool chamber	Training, Group meeting, Field demonstrations	2	50	Farm Women were able to avoid distress sell of vegetable
Dhenkanal	Sugarcane bud chipper	Training, Group meeting, Field demonstrations	4	100	More area could be planted with lesser seed rate and seedling mortality was reduced
Dhenkanal	Peanut butter	Training, Group meeting, Field demonstrations	3	75	Nutritious and tasty valu added product for home based consumption
Dhenkanal	Rose wood	Training, Group meeting, Field demonstrations	2	50	
Dhenkanal	Bamboo	Training, Group meeting, Field demonstrations	2	50	Performance of bamboo. Method demonstration of Salia Bamboo
Dhenkanal	Kusmi Lac	Training, Group meeting, Field demonstrations	4	100	Farmers are highly satisfied with lac culture and value addition to lac product
Dhenkanal	Sissu	Training, Group meeting, Field demonstrations	3	75	Farmers highly appreciated the sissu plantation

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.
1.	Dhenkanal	Tomato	Swarna Sampad	ICAR (KGVK, Ranchi)	15	0.40

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**
Dhenkanal	Excellent horticulture technology	Excellent methods	Knowledge, skill developed on Horticulture but attitude towards farming not developed due to low market rate and irregular profits. Vegetables are now consuming through out the Year and dependency on out side source for vegetables decreases. New vegetable farming system and vegetable farming methods knowledge through OFT and FLD programs are helpful. Women are interested towards horticulture farming.	Interested to adopt all scientific and modern horticulture technology
Dhenkanal	Improvement of Cauliflower in quality and yield	Application of Biofertilizer	Increase in yield and curd quality	Framers are interested to adopt the technology.
Dhenkanal	Solution to the high labour requirement in transplanting of Rice	Use of 8-row Paddy Drum seeder	Saving in labour 28 MDs/ha and increase in yield is around (7-8)%	Farmers are very delighted in using the implement as it saves time and reduces the cost of operation.
Dhenkanal	Improper plant population and high labour requirement in sowing of Groundnut seeds	Use of Bulock or Power Tiller operated seeddrill in sowing groundnut	Increase in yield and saving in seeds required per hectare	Farmers are convinced about the technology and large scale adoption
Dhenkanal	High labour requirement in manual weeding in Paddy	Use of 2-row Paddy Power Weeder	Saving in labour cost, time and increase in yield	Since it is of low weight, it is very easy to operate.
Dhenkanal	Scarcity of water throughout the cropping season of watermelon	Drip irrigation system in Watermelon	Increase in yield, less water consumption and reduction in labour cost	Regular filter cleaning is required , since the source of water supply is river water.
Dhenkanal	In absence of seed, bamboo can be propagated vegetative. Pre-monsoon layering is for exsitu plantation & monsoon - layering is for in situ plantation in rainfed situation. No necessity of filling water in internodes of bamboo	Individual farmers interacted among themselves	Macro propagation of sundarkani bamboo through juvenile branch cutting	Adopt it in large scale in future

Dhenkanal	Post emergence damping off of eucalyptus seedlings	Rational use of FYM water along with full sunshine and systematic fungicide	Precautionary and remedial measures for control of post emergence damping off in eucalyptus	Farmers will adopt this practice in large scale not only in eucalyptus but also in other nursery
Dhenkanal	Cheap and easy method of eucalyptus planting	Preparation of deep furrows in less time by tractor driven implement for planting of eucalyptus seedling		Farmers will adopt this practice in large scale in future

4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
Dhenkanal	Problem base research and communication to KVK for future extension
Dhenkanal	Drip irrigation in Watermelon requires regular maintenance of filters and pipes, particularly when the source of water supply is river water.
Dhenkanal	In case of field area, where the Bund height is very high, it is very difficult to move the transplanter from one field to another field. Therefore weight of the Transplanter may be reduced.
Dhenkanal	Azolla supportive feed for mulching cows: Technology to be developed to maintain the Azolla seed during peak period of summer
Dhenkanal	Oyster Mushroom variety – Hyspizygous ulmarius: Poor colour (blue) development during fruiting stage due to high temperature
Dhenkanal	TNAU Insect Trap for safe storage of pulse: Traps are not available in local market
Dhenkanal	Preparation of RTS from Raw Stone Apple: Technology to be developed to maintain the colour at least for six months
Dhenkanal	Eucalyptus hybrid seed, Karnataka origin is a good source of seed. Seed gives maximum germination alongwith good vigour seedlings. Also more than 70% seedlings are lesser more stature establishment and growth performance sometimes super seeds those of clonal origin

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
Dhenkanal	FW	Group Meeting	10.04.14 and Sogara	35
Dhenkanal	FW	PRA survey, Group meeting	12.06.14,chaipur	30
Dhenkanal	FW	PRA Survey, Group Meeting, visit to farmers' field	24.07.14, Akrantapur and 14.08.14, Bagda	50
Dhenkanal	FW	Group Meeting	13.10.14, Bhangamal	35
Dhenkanal	FW	PRA survey, Group Meeting, discussion with farmers' club	31.10.14, Harekrushnapur	40
Dhenkanal	FW	Group Meeting, Visit to farmers'field	05.12.14, Talabarkote	30
Dhenkanal	FW	PRA, Personal interview	11.6.14, 20.6.14, 23.6.14, 24.6.14 Ballav,	120

Name of KVK	Category of the training	Methods of need assessment	Date and place	No. of participants involved
			Khandabandha, Dengobarei, Talabarkote	
Dhenkanal	RY	PRA, Group discussion	11.7.14, 20.7.14, 22.7.14, 24.7.14 Ballav, Khandabandha, Dengobarei, Talabarkote	120
Dhenkanal	IS	Weekly review Meeting	03.01.15, DDA, Dhenkanal	25
Dhenkanal	IS	Weekly review Meeting	14.5.14, 20.6.14, 23.6.14, DDA, Dhenkanal	75
Dhenkanal	Vocational	PRA survey, Group Meeting, discussion with Farmers,club	19.04.14, Talabarkote, 09.05.14, Arada , and 22.05.14, Kasiadihi	60
Dhenkanal	Vocational	Group Meeting, discussion with Farmers club	7.10.14, KVK Campus	50

Abbreviation Used

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

EXP	Extension Personnel

5. TRAINING PROGRAMMES

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

Table 5.1. Details of Training programmes conducted by the KVKs

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							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
Dhenkanal	FW	OFC	HOV	Training on Production technology and commercial farming of Organic Vegetables.	01	01	00	00	01	00	00	00	24	00
Dhenkanal	FW	OFC	HOV	Training on cultivation of vegetable base cropping system.	01	01	00	00	00	10	00	00	00	15
Dhenkanal	FW	OFC	HOT	Training on production of Tuber crop.	01	01	00	00	20	00	00	00	05	00
Dhenkanal	FW	OFC	HOV	Training on off season vegetable farming	01	01	02	00	05	00	00	00	18	00
Dhenkanal	FW	OFC	HOS	Training on cultivation of Spices and aromatic plants	01	01	00	00	00	00	23	00	02	00
Dhenkanal	FW	OFC	HOV	Training on supply chain management of vegetables & Post Harvest Management.	01	01	01	00	01	00	00	00	23	00
Dhenkanal	FW	OFC	HOF	Training on PHM of fruit crops.	01	01	05	00	02	00	00	00	18	00
Dhenkanal	FW	OFC	HOV	Training on Processing, Grading, Packaging & marketing of watermelon.	01	01	04	00	00	00	18	00	03	00
Dhenkanal	FW	OFC	HOF	Management of old orchard	01	01	02	00	08	00	06	00	09	00
Dhenkanal	FW	OFC	HOV	Establishment of nutritional horticultural Garden.	01	01	03	00	07	00	00	00	15	00
Dhenkanal	FW	OFC	PLP	Technology for treatment of seed & Seedlings for control of diseases	1	1							25	
Dhenkanal	FW	OFC	PLP	Integrated Pest Management in Paddy	1	1							25	
Dhenkanal	FW	ONC	PLP	Management of blast, sheath blight & BLB disease in Paddy	1	1							25	
Dhenkanal	FW	OFC	PLP	Integrated pest & disease management in Groundnut	1	1							25	
Dhenkanal	FW	OFC	PLP	Integrated pest & disease management in Arhar	1	1							25	

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
Dhenkanal	FW	OFC	PLP	Integrated pest & disease management in Sugarcane	1	1							25	
Dhenkanal	FW	OFC	PLP	Integrated pest & disease management in Solanaceous crop	1	1							25	
Dhenkanal	FW	OFC	SFM	Soil testing for nutrient management of crops	1	1			7				18	
Dhenkanal	FW	OFC	SFM	Acid Soil Management	1	1							25	
Dhenkanal	FW	ONC	SFM	INM in Paddy	1	2			2		9	2	11	1
Dhenkanal	FW	OFC	SFM	Nutrient management in Groundnut	1	1			1				24	
Dhenkanal	FW	OFC	SFM	INM in Sesamum	1	1							25	
Dhenkanal	FW	ONC	SFM	Nutrient management in Cauliflower	1	2							20	5
Dhenkanal	FW	OFC	SFM	Nutrient management in Cabbage	1	1							22	3
Dhenkanal	FW	OFC	SFM	Nutrient management in Maize	1	1							17	8
Dhenkanal	FW	OFC	AEG	Performance of Paddy drum seeder in sowing of pre germinated Paddy seeds	1	1			2				23	
Dhenkanal	FW	ONC	AEG	Operation, maintenance and safe use of sprayer	1	2							25	
Dhenkanal	FW	OFC	AEG	Use of different types of low cost weeding implements in field crops and vegetable cultivation	1	1							25	
Dhenkanal	FW	OFC	AEG	Land preparation and calibration of Seeddrill	1	1							25	
Dhenkanal	FW	OFC	AEG	Use of Paddy Reaper to solve labour and time	1	1							21	4
Dhenkanal	FW	OFC	AEG	Use of low cost harvesting and threshing implements for Groundnut	1	1			1				24	
Dhenkanal	FW	ONC	AEG	Operation & Maintenance of Axial Flow Thresher in Paddy Threshing	1	1			1				19	5
Dhenkanal	FW	ONC	AGF	Biomass quantification of different tree species	1	1							23	2
Dhenkanal	FW	ONC	AGF	Preparation of Bordeaux paste & mixture	1	1							22	3
Dhenkanal	FW	ONC	AGF	Management of Community forest	1	1							23	2
Dhenkanal	FW	ONC	AGF	Therapeutic values of different herbs	1	1							22	3
Dhenkanal	FW	OFC	FIS	Control of predator & weed fishes	1	1	11	4	3	1			6	

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
				before stocking										
Dhenkanal	FW	OFC	FIS	Pond preparation before stocking	1	1	8	3	2	1			8	3
Dhenkanal	FW	OFC	FIS	Culture technique of fry to fingerlings	1	1	9	4	2	1			7	2
Dhenkanal	FW	OFC	FIS	Post stocking management in composite Pisciculture	1	1	8	3	2	1			8	3
Dhenkanal	FW	OFC	FIS	Pond management during Winter season	1	1	11	4	3	1			6	
Dhenkanal	FW	OFC	FIS	Water quality management in Pisciculture Tank	1	1	9	4	2	1			7	2
Dhenkanal	FW	OFC	FIS	Use of low cost farm made feed during culture period	1	1	8	3	2	1			8	3
Dhenkanal	FW	ONC	FIS	Fish cum Prawn culture – A Profitable Enterprise	1	1	9	4	2	1			7	2
Dhenkanal	FW	ONC	FIS	Culture technique of spawn to fry	1	1	11	4	3	1			6	
Dhenkanal	FW	ONC	FIS	Disease management in composite Pisciculture	1	1	8	3	2	1			8	3
Dhenkanal	FW	OFC	WOE	Use of locally made HH food supplement to improve food security	1	1		25						
Dhenkanal	FW	OFC	WOE	Off Season Backyard vegetable cultivation	1	1		1		5		19		
Dhenkanal	FW	OFC	WOE	Operational procedure of low cost small tools and implements for drudgery reduction of farm women	1	1		13		3		9		
Dhenkanal	FW	ONC	WOE	Marketing Strategy for SHGs	1	2		14		11				
Dhenkanal	FW	ONC	WOE	Cultivation of Azollain Backyard for Milching Cow	1	2		25						
Dhenkanal	FW	ONC	WOE	Household Nutritional Security through Backyard Farming	1	2				2		23		
Dhenkanal	FW	ONC	WOE	Storage of vegetables in Zero Energy Cool Chamber to minimize post harvest loss	1	2		23		2				
Dhenkanal	FW	ONC	WOE	Value Addition of Groundnut	1	1		24		1				
Dhenkanal	FW	ONC	WOE	Backyard Poultry for additional HH Income	1	1		21		4				
Dhenkanal	FW	ONC	WOE	New Strains of Mushrooms	1	1		25						
Dhenkanal	FW	ONC	WOE	Value Addition of Stone Apple	1	1		25						
Dhenkanal	RY	ONC	PLP	Use of Pheromone Trap & bio	1	2							15	

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
				pesticide in IPM practices										
Dhenkanal	RY	ONC	SFM	Vermicomposting of Agricultural waste	1	2							15	
Dhenkanal	RY	ONC	FIS	Yearling culture of IMC	1	2	7	1	1				6	
Dhenkanal	RY	ONC	FIS	Seed production of IMC	1	2	8		1				5	1
Dhenkanal	RY	ONC	WOE	Promotion of Microenterprises for Self Employment	1	2		15						
Dhenkanal	IS	ONC	PLP	Recent development in Eco friendly Pest management concept	1	2							15	
Dhenkanal	IS	ONC	PLP	Use of Bioagent & botanicals for pest & disease management	1	2							15	
Dhenkanal	IS	ONC	SFM	Acid soil management	1	2							12	3
Dhenkanal	IS	ONC	AEG	Water management in Watermelon	1	2							13	2
Dhenkanal	IS	ONC	AGF	Water requirement and nutrient management in tree plantation	1	2							13	2
Dhenkanal	IS	ONC	AGF	Preservation of secondary timber species by chemical treatment	1	2							11	4
Dhenkanl	IS	ONC	FIS	Introduction of minor carp with IMC	1	2	10		4					1
Dhenkanal	IS	ONC	WOE	Women friendly tools and implements for drudgery reduction of farm women	1	2		15						

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
Dhenkanal	Training on Post Harvest Management of fruits.	Crop	ICM	02	02	00	10	00	00	00	03	00
Dhenkanal	Technique of MAT type seedling raising for using 8-row Self Propelled Rice Transplanter	Enterprise	Farm Mechanization	07							10	
Dhenkanal	Repair & maintenance of Diesel Pumpset	Enterprise	Farm Mechanization	07			1				9	
Dhenkanal	Value addition of some non-wood forest produces	Crop	Value addition	3		1	4		3		7	5

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	
Dhenkanal	Poultry farming	Poultry unit	12	38	16
Dhenkanal	Fish farming	Fish pond	5	10	15
Dhenkanal	Mushroom cultivation	Mushroom unit	30	45	10
Dhenkanal	Agarabati making	Agarabati making factory	2	150	35
Dhenkanal	Lac cultivation	Lac product unit	1	30	-
Dhenkanal	Bee keeping	Bee cultivation	5	40	10

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		
Dhenkanal																

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		
Dhenkanal																

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	
Dhenkanal	Training on Production technology and commercial farming of Organic Vegetables.	25	00	00	00				10 ha area covers under organic farming
Dhenkanal	Training on cultivation of vegetable base cropping system.	25							20 hectare area under covers under different vegetables with fruit plants
Dhenkanal	Training on production of Tuber crop.	25							Different tuber crops like Elephant foot Yam, Diascoria, Yam and Cassava.
Dhenkanal	Training on off season vegetable farming	25							Off season onion, Tomato, Cauliflower are covers in 05 hectare area.
Dhenkanal	Training on cultivation of Spices and aromatic plants	25							Spices like coriander, chillies, garlic are planted in 03 hectare area.
Dhenkanal	Training on supply chain management of vegetables & Post Harvest Management.	25							Tomato are graded and packed in crates and marketed directly by producer by 12 farmers.
Dhenkanal	Training on PHM of fruit crops.	25							Mango are collected, graded, packed and marketed by 20 farmers.
Dhenkanal	Training on Processing, Grading, Packaging & marketing of watermelon.	25							Water melon are washed, grade and market in district, out side the District by 75 farmers.
Dhenkanal	Management of old orchard	25							Old existing orchards around 20 ha are pruned and base work done.
Dhenkanal	Establishment of nutritional horticultural Garden.	25							Nutritional garden are formed in 18 house hold for availability of vegetables in door step.
Dhenkanal	Performance of Paddy drum seeder in sowing of pre germinated Paddy seeds	25	35	85	42	45.1	27025	34475	55, 2. 140, 3. 142.85, 7.38, 27.56
Dhenkanal	Operation, maintenance and safe use of sprayer	25	56	96	-	-	100/-	175/-	300, 3. 71.43, 75
Dhenkanal	Use of different types of low cost weeding implements in field crops and vegetable cultivation	25	20	92	-	-	-	-	70, 2. 500, 3. 360
Dhenkanal	Land preparation and calibration of Seeddrill	25	10	75	14.6	16.8	31600	35400	30, 2.100, 3. 650, 15.06, 12.02
Dhenkanal	Use of Paddy Reaper to solve labour and time	25	42	98	-	-	33920	38000	200, 2. 400, 3. 133.34, 12.02
Dhenkanal	Use of low cost harvesting and threshing implements for Groundnut	25	36	82	-	-	24800	30400	200, 3. 127.78, 22.58
Dhenkanal	Operation & Maintenance of Axial Flow Thresher in Paddy Threshing	25	51	94	-	-	28235	32565	1.90, 2. 600, 3. 84.31, 15.33

Dhenkanal	Water management in Watermelon	15	10	59	-	-	-	-	3. 590
Dhenkanal	Technique of MAT type seedling raising for using 8-row Self Propelled Rice Transplanter	10	24	78	44.1	48.9	25600	32687	40, 2. 200, 3. 225, 10.88, 27.68
Dhenkanal	Repair & maintenance of Diesel Pumpset	10	46	84	-	-	250/-	400/-	75, 3. 82.60, 60
Dhenkanal	Biomass quantification of different tree species	25	4	9	$8m^3$/ha/ yr	20 m^3/ha/ yr	14000	56000	110, 30, 125, 150, 300
Dhenkanal	Preparation of Bordeaux paste & mixture	25	2	6	196500/ 100sqm	272700/ 100sqm	13175	20857	20, 50, 200, 39, 58
Dhenkanal	Management of Community forest	20	2	5			500	800	500, 50, 150, 60
Dhenkanal	Therapeutic values of different herbs	25	3	8			100	150	28, 42, 166, 50
Dhenkanal	Water requirement and nutrient management in tree plantation	15	3	6					55, 100, 100
Dhenkanal	Preservation of secondary timber species by chemical treatment	15	4	10			300	600	20, 150, 100
Dhenkanal	Value addition of some non-wood forest produces	20	2	5			175	190	120, 150

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			
Dhenkanal	Field Day	16	10	230	40	65	45	15	5	Popularization and dissemination of improve cultivation of crops and principle of operation of enterprise	Improved cultivation of crops	Early maturity stage
Dhenkanal	Kisan Mela	1	1	375	90	85	50	11	3			
Dhenkanal	Kisan Ghosthi	8	6	96	24	45	15	4	2	Popularization and dissemination of technology	Improved cultivation of Kharif crops	Kharif crop season
Dhenkanal	Exhibition	2	5									
Dhenkanal	Film Show	20	28	640	180	290	132	22	6	Popularization and improved technology	10 film CDs	Kharif crop season
Dhenkanal	Method	5	5	72	21	32	-	11	4	Popularization and	Improved cultivation	Kharif

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			
	Demonstrations									improved technology	of Kharif crops	crop season
Dhenkanal	Farmers Seminar	1	1	18	5	7						
Dhenkanal	Workshop	1	1	28	4	9	5	4		Popularization of use of traps	Blast disease in Rice	Mid season stage
Dhenkanal	Group meetings	20	23	260	65	52	24	8	2	Problem analysis	-	Kharif crop season
Dhenkanal	Lectures delivered as resource persons	40	35							Popularization and improved technology	Mushroom, vermicompost, fish farming, Hitech Hort. Farm mechanization, micro irrigation	
Dhenkanal	Newspaper coverage	10	15							Popularization and improved technology	Vermicompost, fish farming, Hitech Hort. , swacha bharat mission, micro irrigation in watermelon	
Dhenkanal	Radio talks	10	4								Hitch Horticulture	
Dhenkanal	TV talks	10	17							Awareness of farming community	Micro irrigation, value addition, fish farming, hitech horticulture	
Dhenkanal	Popular articles	10	6								Extension activities	
Dhenkanal	Extension Literature	16	10									
Dhenkanal	Farm advisory Services	40	35	22	8	5						
Dhenkanal	Scientific visit to farmers field	170	225	836	62	349	68					
Dhenkanal	Farmers visit to KVK	360	2267	1239	401	428	199			Popularization and improved technology	Improved cultivation of Kharif & rabi crops	Kharif & rabi crop season
Dhenkanal	Diagnostic visits	25	16	151	28	30	6					
Dhenkanal	Exposure visits	02	02	20								
Dhenkanal	Ex-trainees Sammelan	04	02	33	13	14						

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			
Dhenkanal	Soil health Camp	1	2	525	145	230						
Dhenkanal	Animal Health Camp	1	-									
Dhenkanal	Agri mobile clinic											
Dhenkanal	Soil test campaigns	1	1	32	4	8	6					
Dhenkanal	Farm Science Club conveners meet	2	2	16	2	6	4	2	2	Dissemination of information	Scientific method on crop cultivation	
Dhenkanal	Self Help Group conveners meetings	4	2		64		31		5	Technology transfer projects	Small scale activities	
Dhenkanal	Mahila Mandals conveners meetings	2	1		16		9			Empowerment of women involved in agriculture and allied activities		
Dhenkanal	Celebration of important days (World environment day)	2	2	84	96		20	4		World Food Day, Women in agriculture day		

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
Dhenkanal	30.6.2014	Quarterly	2000	1500

7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Dhenkanal	Leaflet	Nutrition garden for family health & well being (Oriya)	S. Pal	250
Dhenkanal	Leaflet	Azolla cultivation	S. Pal & M. Prusty	500
Dhenkanal	Leaflet	Use of 8-row drum seeder	D. Paramajita	1000
Dhenkanal	Leaflet	Medicinal plant	M. Mohanty & S. Kar	500
Dhenkanal	Booklet	Vermicompost technlology	M. Prusty	500
Dhenkanal	Booklet	Fish Farming	J. Sahoo	500
Dhenkanal	Booklet	Bee keeping	D. Panda	500
Dhenkanal	Leaflet	Onion cultivation	S. Kar & D. Panda	500

7.3 Details of Electronic Media Produced

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
Dhenkanal	**CD**	**FLD on Groundnut**	**1**
Dhenkanal	**CD**	**Micro irrigation in water melon**	**1**
Dhenkanal	**CD**	**Transplanter, Reaper**	**2**
Dhenkanal	**CD**	**Value addition to sweet potato**	**1**

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.)
Dhenkanal	Foundation	Rice	Naveen	135	337500		6
Dhenkanal	Mushroom	Rice straw mushroom	V.volvacea	0.47	3290	Public sale	
Dhenkanal	Mushroom	Oyster mushroom	P.sajarcaju	1.6	8000	Public sale	

8.2 Planting Material production

KVK Name	Major group/class	Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Dhenkanal	Horticulture	Brinjal	Tarini	2000	1000/-	4	0.1
Dhenkanal	Horticulture	Tomato	BT-10	4000	2000/-	20	0.2
Dhenkanal	Horticulture	Elephant apple		225	1620/-	20	0.1
Dhenkanal	Horticulture	Drumstick		250	1250/-	5	0.01
Dhenkanal	Horticulture	Papaya		50	250/-	1	0.01
Dhenkanal	Horticulture	Ornamental(Dianthus)		70	700/-	10	
Dhenkanal	Tree	Sissu		674	3370/-	60	1.5
Dhenkanal	Tree	Amla		41	205/-	4	0.02
Dhenkanal	Tree	Bamboo		500	2500/-	10	0.1
Dhenkanal	Tree	Custard Apple		55	275/-	5	
Dhenkanal	Tree	Sandal wood		5	250/-	1	
Dhenkanal	Tree	Eucalyptus		150	750/-	30	0.1

8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.) * Name of product should follow same pattern and spelled correct

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.)
Dhenkanal	Bio Agents						
Dhenkanal	Bio Fertilizer	Vermicompost	620		3100	50	

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
Dhenkanal	Poultry	Banaraja	Chicks	508	26640	50

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)
Dhenkanal	Existing	`2004-05	Soil samples	640	640	16		640

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)
Dhenkanal	Existing	`2004-05	Water samples	20	20	8		20

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
Dhenkanal										

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)
Dhenkanal	May	2014	Mulching Technique in vegetable crops for water use efficiency	01	02	02		12
Dhenkanal	May	2014	Repair & Maintenance of Tractor	01	02	02		12
Dhenkanal	June	2014	Operation and maintenance of Groundnut harvesting and Threshing implements	01	02	02		12
Dhenkanal	July	2014	Production of vegetable seedling.	01	02	02		12
Dhenkanal	July	2014	Production, packaging and marketing of spices condiments for rural youth.	01	02	02		12
Dhenkanal	August	2014	Cultivation and post harvest management and marketing of flower.	01	02	02		12
Dhenkanal	August	2014	Treatment of seed and seedlings for control of diseases	1	2	2		12
Dhenkanal	August	2014	Bee keeping	1	2	2		12
Dhenkanal	September	2014	Management of protected forest and village forest	1	2	2		12
Dhenkanal	September	2014	Preparation of grain lac and lac varnish	1	2	2		12
Dhenkanal	October	2014	Value addition in palm craft	1	2	2		12
Dhenkanal	November	2014	Agripreneurship to establish Agro Service Centre	01	02	02		12
Dhenkanal	December	2014	Cost effective method of Rice cultivation by using Self Propelled Rice Transplanter	01	02	02		12
Dhenkanal	January	2015	Carp spawn production in portable carp hatchery	1	2	2		12
Dhenkanal	February	2015	Yearlings production	1	2	2		12
Dhenkanal	March	2015	Different avenues for income generation	1	2	2		12

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
Dhenkanal	2009	2009	6	-	-

13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Dhenkanal	21.07.14	22	Emphasis should be given on value addition to fruits and vegetables and off-season vegetable cultivation. Film show should be organized on farm mechanization to create awareness among farming community. Water conservation technology should be developed in adopted villages. Mushroom spawn production unit should be popularized among the farm women.
Dhenkanal	17.12.14	24	Minimum five nos of Demo Units should be developed in KVK campus particularly IFS concept to support risk prone agro ecosystem of Dhenkanal district. Extensive use of mass media for popularization of the latest agriculture and allied technologies with emphasis on OUAT released varieties. Impact assessment of KVK adopted villages during last 12 years on number of adopted farmers, condition of farmers, increase in production and productivity, socio economic status including spread of allied agro activities. Emphasis should be given on investigation of intervention and progress made rather than technology dissemination only

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.		
Dhenkanal	135	1120	174	Farmers Portal	ICM, IPM, INM, IDM, Farm mechanization, Irrigation water management, value addition, drudgery reduction, mushroom cultivation, fish farming, Bamboo cultivation, management of nursery

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
Dhenkanal	BGREI	Central		Monitoring with state officials	Villages under Kankadahad & Sadar block	

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Dhenkanal	30306531704	101914	24658	

17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Dhenkanal	Farmers award	Farmer, Group, Institution	KVK, OUAT	Nil

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.)
1	**Dhenkanal**	Yes	Only presented in Zonal workshop

b) Details about Technology Park

Name of KVK	Name of Component of Park	Detail Information (If established)
Dhenkanal	Crop Cafeteria	Started
Dhenkanal	Technology Desk	Not established
Dhenkanal	Visitors Gallery	Not established
Dhenkanal	Technology Exhibition	Not established
Dhenkanal	Technology Gate-Valve	Not established

c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1	Cultivation of Teasel gourd	01
2	Cultivation of Improve variety of Brinjal	01
3	Demonstration of IPM tools	01
4	Storage of fruits and vegetables	01
5	Nutritional garden	01
6	Medicinal garden	01
7	Bee keeping	01
8	Poultry unit	01
9.	Mushroom unit	01
10	Vermicompost unit	01
11	Carp hatchery	01

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.
1	Dhenkanal	Muralidhar Sethy	Use of lack varnish in plam craft	At. Indipur, Po. Gundichapada, Block – D. Sadar, Dist- Dhenkanal
2	Dhenkanal	Parsuram Behera	Blazing technique for more rubber latex oozing	At. Kaimati, Po. Kaimati, Block- D. Sadar, Dist. Dhenkanal, Mobile No. 9776031442
3	Dhenkanal	Chakadola Moharana	Use of seed lac in polishing kurein wood craft	At. Chakadolasahi, Po/Block- Gondia, Dist. Dhenkanal, Mobile No. 8895475270
4	Dhenkanal	Pravakar Pradhan	Use of boil sweet potato for making sweet meats	At. Parabatia, Po. Sankarpur, Dist. Dhenkanal
5	Dhenkanal	Sribatsa Biswal	Maize staking for yam crop	At. Khalibandha, Po. Tarava, Block-D. Sadar, Dist-Dhenkanal, Mobile. No. 9337259155
6	Dhenkanal	Baikuntha Prusty	Iporia cornea arching for mini poly house	At. Harekrushnapur, Po. Kaimati, Block – D. Sadar, Dist. Dhenkanal, Mobile No.7504561621
7	Dhenkanal	Prasanna Kumar Behera	Innovative pitting technique for eucalypt plantation	At. Dandeibereni, Po. Gondia Patna, Block: Gondia, Dist. Dhenkanal, Mobile No.9437904626
8	Dhenkanal	Ambuja Biswal	Use of neem leaf decoction against bottle necking of collar region of brinjal plant	At. Bainsia, Po. Bainsia , Block: Gondia, Dist. Dhenkanal, Mobile No.9178212056
9	Dhenkanal	Saroja Mallick	Larvin and gur bait against caterpillar deforming skin of watermelon	At. Tarava, Po. Tarava , Block: D. Sadar, Dist. Dhenkanal, Mobile No.9937132467
10	Dhenkanal	Santanu Ku. Bisoi	Cassia tora compost for better yeidl	At. Balarampur, Po. Balarampur, Block – Odapada, Dist, Dhenkanal, Mobile No.9778794122

20. KVK interaction with progressive farmers

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers to be participated
1	01.05.2014	50
2	21.7.2014	25
3	17.12.2014	25
4	01.03.2015	30

21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Dhenkanal	4	4	16	60

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	Angul	Research person in training programme and demonstration activities	Farming situation of the concerned ring district and valuable suggestion during scientific interaction with progressive farmers
2	Jajpur	Research person in training programme and demonstration activities	Farming situation of the concerned ring district and valuable suggestion during scientific interaction with progressive farmers

24. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Dhenkanal	Prof. M. Kar, VC, OUAT, BBSR	01.05.2014		SAU		In the occasion of Agri-enter preneurs meet
Dhenkanal	Prof. M. Kar, VC, OUAT, BBSR & Prof. S.S. Nanda, Dean, Extension Education OUAT, BBSR	21.07.2014		SAU		SAC Meeting
Dhenkanal	Prof. M. Kar, VC, Prof. S.S. Nanda, DEE, Dr. S. R Rout, DPME and Dr. R. K. Das, Comptroller, OUAT, BBSR	04.12.2014		SAU		Monitoring KVK boundary wall construction
Dhenkanal	Dr. T. Athare, Scientist ZPD unit, Jabalpur	04.02.2015	ICAR			Review of KVK activities

25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Dhenkanal	2011	15	

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			
Dhenkanal							

27. Status of RTI

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

	Dhenkanal			

28. Status of Citizen Charter

Sr. No.	Name of KVK	Query received(Nos)	Query Disposed(Nos)	Remarks
1	Dhenkanal	11	11	

29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Dhenkanal	Sidhartha Kar	**SMS (Horticulture)**	**1**	
Dhenkanal	D. Panda	**SMS (Plant Protection)**	**1**	
Dhenkanal	S. Pal	**SMS (Home Science)**	**1**	
Dhenkanal	M. Mohanty	**SMS (Forestry)**	**1**	
Dhenkanal	D. Paramajita	**SMS (Ag. Engg)**	**1**	
Dhenkanal	J. Sahoo	**P. A. (Fishery)**	**1**	
Dhenkanal	G. Moharana	**P. A. (Computer)**	**1**	

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
Dhenkanal	7	7

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Dhenkanal	Sidhartha Kar	**SMS (Horticulture)**	**1**	
Dhenkanal	D. Panda	**SMS (Plant Protection)**	**1**	
Dhenkanal	S. Pal	**SMS (Home Science)**	**1**	
Dhenkanal	M. Mohanty	**SMS (Forestry)**	**1**	
Dhenkanal	D. Paramajita	**SMS (Ag. Engg)**	**1**	
Dhenkanal	J. Sahoo	**P. A. (Fishery)**	**1**	
Dhenkanal	G. Moharana	**P. A. (Computer)**	**1**	

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

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
Dhenkanal	D. Panda	**SMS (Plant Protection)**	**1**	
Dhenkanal	G. Moharana	**P. A. (Computer)**	**1**	

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
Dhenkanal	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
Dhenkanal	Cyclone	Hudhud	ZPD, DEE, Agril. Dept.

33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Dhenkanal				

34. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries
Dhenkanal	Arhar	5	25
Dhenkanal	Groundnut	5	25

Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
Dhenkanal	Oilseed	5	25
Dhenkanal	Pulses	6	38
Dhenkanal	Vegetable crop	1.5	20
Dhenkanal	Fruit	1	2

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No. of participants
Dhenkanal	Poultry management	3	150
Dhenkanal	Feed and fodder technology	1	25
Dhenkanal	Fingerling production	1	25

Animal health camps 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
Dhenkanal	Vegetables	0.5	4	10

Seedlings and Saplings distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
Seedlings				
Dhenkanal	Bamboo	100		10

Bio-control Agents

Name of KVK	Bio-control Agents	Quantity (q)	Coverage of Area (ha)	No. of farmers
Dhenkanal	Trichoderma viriedae	5	1	10

Bio-Fertilizer

Name of KVK	Bio-Fertilizer	Quantity (kg)	Coverage of Area (ha)	No. of farmers
Dhenkanal	Vermicompost	50	1	5

Verms Produced

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

Large scale adoption of resource conservation technologies

Name of KVK	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Dhenkanal	Cultivation of fruits	8	40
Dhenkanal	Integrated crop management	70	175
Dhenkanal	Micro Irrigation	1	1

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
Dhenkanal	20	500	2	60	2	80	1	500	1	500	7	175

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.

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

37. Case study / Success Story to be developed – Two best only in the following format : (Attached separate file)

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

Sr. no.	Name of KVK	No. of success stories	No. of case studies
1.	Dhenkanal	02	Nil

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