ANNUAL PROGRESS REPORT (April 2015-March 2016)



KVK, DHENKANAL



Orissa University of Agriculture & Technology Bhubaneswar

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REPORTING PERIOD – April 2015 to March 2016

Summary of KVK Annual Report (Quantifiable Achievement) for the year 2015-16

S.N.	Quantifiable Achievement	Number	Beneficiarie	es (nos.)
1	On Farm Testing	Ļ	1	
	Proposed OFT	14		171
	On Going OFT	2		26
	Technologies assessed (Completed OFT)	12		145
	Technologies refined			
	On farm trials conducted	12		145
2	Frontline demonstrations			
	Proposed Frontline demonstrations	26		363
	On Going Frontline demonstrations			
	FLDs conducted on crops	13		256
	Area under crops (ha.)	80.6		256
	FLD on farm implement and tools	3		30
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	1		10
	FLD on Fisheries - Finger lings	2		8
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost,	3		19
	etc.)			
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery	4		40
	reduction, etc.)			
3	Training programmes	No. of Course	Duration (days)	Participants
	Farmers	57	66	1280
	Farm women	12	17	300
	Rural youth	12	18	155
	Extension personnel/ In service	10	16	145
	Vocational trainings	2	12	30
	Sponsored Training	3	34	95
	Total	96	163	2005
		No. of programmes	Particip	ants
4	Extension Programmes	2724		8324
5	Production of technology inputs etc	Qty	Beneficiarie	es (nos.)
	Seed (qt.)	150.4		
	Planting material produced (nos.)	441774		445
6	Livestock	Qty	Beneficiarie	es (nos.)
	Livestock strains (Nos)			
	Milk Yield - Cow, Buffelo etc. (in liter)			
	Fish (Kg.)			
	Fingerlings (nos.)			
	Poultry-Eggs (nos.)	90	10	
	Ducks (nos.)			
	Chicks etc. (nos.)			

7	Bio Products	Qty	Beneficiar	ries (nos.)
	Bio Agents -Earth worm (Kg.)			· · ·
	Trichoderma (kg.)			
	Bio Fertilizers- Vermi compost, Rhizobium, PSB, BGA, Mycorriza, Azotobacter, Azospirillum etc.	615		45
	(Kg.)			
	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)	24	-	24
	Publications (Res. Paper/pop. Art./Bulletin,etc.)	8		4050
	KVK News letter	4		2000
	SAC Meetings conducted	2		50
	Soil sample tested	1028		1028
	Water sample tested			
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)			
	KVK-KMA (Message and beneficiaries)	68		5445
	Convergence programmes	1		
	Sponsored programmes	1		
	KVK Progressive Farmers interaction	5		500
	No. of Technology Week Celebrations			
	Attended HRD activities organized by ZPD	3		3
	Attended HRD activities organized by DES	4		4
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc.)	1		1
9	Current status of Revolving Funds (Amt. in Rs.)		•	144967
10		No. of blocks	No. of v	illages
	Outreach of KVK in the District	8	70	5
11		ICAR	SAU	Others
	No. of important visitors to KVK (nos.)	1	3	
12		Working (Yes/No)	No. of U	Jpdate
	Status of KVK Website	Yes	2	
13		Application received	Application	1 disposed
	Status of RTI (nos.)			
14		Query received	Query d	issolved
	Citizen Charter (nos.)	14	14	1
15		Working (Yes/No)	No. of progra	mme viewed
	E-connectivity			
16		Filled	Vac	ant
	Staff Position	16		
17	Workshop/ Seminar/ Conference attended by staff of KVK (nos)	6		
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)			

GENERAL INFORMATION

1.1. Staff Position (31.03.2016)

Summary of Staff position in KVKs on March, 2016

Name of KVK	Sanctioned	PC	(1)	SMS	SMS (6)		(3)	Adm	n. (6)	Total		
	Posts Sanc. Filled Sanc. Filled		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled				
Dhenkanal	16	1	1	6	6	3	3	6	6	16	16	

Name of KVK	Sanction post	Name of the incumbent	Discipline	Higist degree	Subject of specialization	Pay scale	Present pay	Date of joiing	Per./Temp.	Category
Dhenkanal	Programme Coordinator	Dr. S. K. Mohapatra	Horticulture	Ph. D.	Horticulture	15,600- 39,100	18700+8000	12.11.15	Temporary	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	Entomolog y	M.Sc. (Ag.)	Entomology	15,600- 39,100	22220/+600 0	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	Dr. R. B. Nayak	Animal Science	MV Sc.	Animal Sci	15,600- 39,100	15600+6000	7.7.2015	Temporary	Gen
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	13980+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			Population	Literacy	SC and ST Population		
	cimatic zone	DIOCKS	Panchayats			Population	farmers	holding
Dhenkanal	Mid Central	08	199	1192801	49.94%	136501 & 197280	108337	1.42 ha
	Table Land							

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	Population	Number of farmers
				KVK		(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 the group of farmer	Parbatia & Sadar

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

					Category of technology		Crop/	Farmin	No.	Res	sults (q	/ha)	Net	Returns (l	Rs./ha)	
KVK name	Year	Season	Problem diagnose	Title of OFT	(Assessmen t/Refineme nt)	Thematic Area	enterpris e	g Situatio ns	of trial s	FP (T ₁)	RP (T ₂)	Т3	FP (T ₁)	RP (T ₂)	Т3	Recommendati ons
Dhenkan al	2015 -17	Kharif	Low production of papaya due to improper planting geometry, pest, disease & water management	management	Assessment	ICM	PAPAYA	Irrigated medium land	13	cont inue						
Dhenka nal	201 5- 16	Rabi	Low return due to lack of management practices like canopy, pest & disease and water management	Assessment of different management techniques and value addition in mango	Assessment	ICM	MANGO	Upland, Irrigated condition	13	Con tinu e						
Dhenkan al	2016	Kharif	Low yield due to use of local variety and improper pest & post harvest management	Assessment of IDM and post harvest management in kharif onion varieties	Assessment	IDM	ONION	Rainfed up land	13	206	237		1310 00	152000		
Dhenka nal	2015 -17	Kharif	Low yield of pigeon pea	Assessment	Assessment	IPM	Pigeon pea	Rainfed medium	13	9.33	14.38		49775	82350		

Dhenka nal	2015 -16	Rabi	Low yield of Cucumber due to high incidence of Downey Mildew	Assessment of IDM practices for controlling Downey Mildew of Cucumber	Assessment	IDM	Cucumbe r	Irrigated Medium	13	138.38	176.84		15353 2	199076		
Dhenka nal	201 5- 16	Kharif	Less quantity of mahua seed in decorticated manually (hy hammering) some times injury to finger	Assessment of mahua seed decorticator in processing of seed	Assessment	Agro forestry	Mahua	Rainfed upland	10	-	_		22.72 /kg	3.23 / kg		The seed should be propely cleaned followed by sun drying
Dhenka nal	201 5- 16	Rabi	Avalibility of less eucalypt seedlings for transplanting due to casualty in mother bed	Assessment of precautionar y and remedial measures against post emergence damping of in eucalypt nursery	Assessment	Agro forestry	Eucalypt	Rainfed upland	5	196 500 / 100 m ²	272 700 / 100 m ²		1317 5 / / 100m 2	20857 / 100m ²		Mother bed selection in an open place, less incorporation of FYM with soil, midday shade provision to transplants
Dhenka nal	201 5	Kharif	manual random transplanting and line transplanting	Assessment of 8-row self propelled Rice Transplanter	Assessment	Farm Mechaniza tion	Paddy	Rainfed Medium land	13	40.1	44.3	44.2	2644 1	37273	34292	Line transplanting of Paddy through transplanter reduces labour cost, seed rate but require skill in operation and nursery raising.
Dhenkan al	201 5- 16	Rabi	High labour cost and more time involved in large area groundnut	Assessment of Power Tiller operated 5- row seed cum	Assessment	Farm Mechaniza tion	Groundnut	Irrigated Upland	13	13.7	14.7	14.0	2800 0	34660	30570	Line sowing through seeddrill may increase the yield but requires proper

				sowing, improper plant population	fertilizer drill in sowing groundnut												field preparation before sowing.
D)henka nal	201 5- 16	Rabi	Low birth weight and high morbidity rate in kids	Assessment of periparturie nt concentrate feeding on birth weight of kids	Assessmen t	LPM	Enterpris e	Semi intensiv e	13	t at birth- 1.4 kg Morbi dity rate- 35% Weigh t at weani	Morbi dity rate- 15% Weigh t at		Rs. 1200/ survi ving kids in flock	Rs. 2160/s urvivin g kids in flock		
		201 5- 16	Rabi	Improper nutrition in dairy animals,low milk yield and less fat and SNF	Assessment of bypass protein feed supplement feeding on milk production of dairy cattle	Assessment	LPM	Enterprise	Stall feeding	13	Milk	Milk yield- 11.3 lt/ani mal/ day	_	Rs.25 0	Rs.317	-	

2.2 Economic Performance

KV		Р	arameters			verage Co tivation (F		Avera	ge Gross (Rs/ha)	Return	Average	Net Return (Rs/ha)	(G	efit-Co ross Re Gross C	
KV K nam e	OFT Title	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)	Refine d Practic e, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refine d Practic e, if any (T ₃)
Dhe nkan al	Assessment of crop management in papaya with pest, disease and water management	Yield	CONTI NUE													
Dhe nkan al	Assessment of IPM and post harvest management in kharif onion varieties	% of leaf damage	25	6	7500 0	85000	-	206000	23700 0	-	131000	152000	-	2.7 5	2.7 9	
Dhe nkan al	Assessment of different management techniques in mango	Yield	CONTI NUE													
Dhe nkan al	Assessment of IPM in pod borer management in pigeon pea	Pest % infestation	30	5	2020 0	25500		69975	10785 0		49775	82350		3.4	4.2	
Dhe nkan al	Assessment of IDM practices for controlling Downey Mildew of Cucumber	% disease incidence	24	5	4020 0	48500		193732	24757 6		153532	199076		4.8 1	5.1 0	
Dhe nkan al	Assessment of mahua seed decorticator in processing of	Processing capacity (kg/h)	1.1	7.7	-	-		-	-		22.70 /kg	3.20/ kg				

	seed															
Dhe nkan al	Assessment of precautionary and remedial measures against post emergence damping of in eucalypt nursery	Survival of transplants (no./ 100m ²)	196500	272700	6475 / 100 m ²	6413 / 100m ²		19650	27270		13175	20857		3.1	4.3	
Dhe nkan al	Assessment of 8-row self propelled Rice Transplanter	Labour requiremen t – MDs/ha Cost of operation – Rs/ha	7000/-	32500/-	3010 0	25190		56541	63591		26441	38401		1.8 7	2.5 2	
Dhe nkan al	Assessment of Power Tiller operated 5-row seed cum fertilizer drill in sowing groundnut	Labour requiremen t- MDs/ha Field capacity – ha/h	10, 0.016	5, 0.20	2680 0	24140		54800	58800		28000	34660		2.0 4	2.4 3	
Dhe nkan al	Assessment of periparturient concentrate feeding on birth weight of kids	Weight at birth Morbidity rate Weight at weaning	1.4 kg 35% 2.4 kg	1.75kg 15% 3.0kg	Rs. 600/ 2 does /45 days	Rs.840 /2 does /45 days	NA	Rs.1800 /for 3 survivin g kids	Rs.300 0/ for 4 survivi ng kids	NA	Rs.1200	Rs.2160	-	3	3.5 7	-
	Assessment of bypass protein feed supplement feeding on milk production of dairy cattle	Milk yield	9.9 lt/anima l/day	11.3 lt/anima l/day	Nil	Rs.22/ animal /day	NA	Rs.250/ day	Rs 339/da y	NA	Rs.250	Rs.317	-	Nil	4	-

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	2015	kharif	Low yield	Assessment	Assessment	Income	Cultivation of	Management of OSM	Homestead	13	
			of paddy	of		generation	OSM -11 using	-11 with paddy straw			

			straw mushroom during peak period of summer	management of paddy straw mushroom variety OSM -11 during peak period of mushroom			paddy straw as a substrate (3 layers) covering the floor with sand and wet gunny bag in the wall	in different layers as substrate increases yield in summer			
Dhenkanal	2015- 16	Rabi	Weight loss and detoriation in quality in green gram due to infestation of pulse beetle	Assesment of TNAU insect trap in green	Assessment	Storage loss minimization technique	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	Farm women appreciated the technology for storage of pulses but TNAU trap is not available locally so research should be done for some other alternatives
Dhenkanal	2015- 16	Rabi	Non availability of paddy straw and low return	Mushroom variety Psajarcaju	Assessment	Income generation	Drumstick dried branch(50%) + paddy straw (50%)	Colour of mushroom is brown with Biological effiency 80-100%, Temperature 20-30 ^o C humidity 80-85%	Homestead	13	Though yhe yield is best in trial but it is difficult to get the Drumstick dried branch as substrate so research should be done on other substrate

											Per	forman	ce Ind	licator	/ Paran	neter							
KVK name	OFT Title	Out m2	tput 2/h	Expe	Energy nditur /min.	bea	HR ht/mi n	% redu n i drud y	ictio in	incr	n	Prod n per			st of put		emental come	Yield	(Kg/ha)		Net turn	Savin g in Rs	BC rati o
		T 1	T 2	T1	Т2	T1	T2	T1	T 2	T1	T2	T1	Т2	T1	T2	T1	T2	T1	T2	T1	T2		
Dhenkan al	Assessment of manageme nt of paddy straw mushroom variety OSM -11 during peak period of mushroom											8 kg	12 kg	Rs. 480	Rs. 540	Rs. 800	Rs. 1200	800 gm per bed	1.2 kg per bed	Rs. 32 0	Rs. 660	Rs. 340	T1- 1.6 T2- 2.2
Dhenkan al	Assessment of TNAU insect trap in green gram											20 kg	24. 5 kg	Rs. 130 0	Rs. 130 4	Rs. 140 0	Rs. 1837. 5	20 kg	24.5 kg	Rs. 10 0	Rs. 533. 5	Rs. 433.5	T1- 1.07 T2- 1.4
Dhenkan al	Assessment of production of Oyster Mushroom variety P.sajarcaju through different substrates											15 kg	20 kg	Rs 320	Rs. 290	Rs. 900	Rs. 1200	1.5 kg	2kg	Rs. 58 0	Rs. 910	Rs. 330	T1- 2.8 T2- 4.1

2.4 Economic Performance Home Science OFT:

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	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
Dhenkanal	If depulped cleaned seeds are properly dried, then round seeds are well crushed (decorticated) in between a wander axle and iron wall. If not properly dried,
	then the seed is squeezed, and hence not peeled. The seed is harvested during june, and if monsoon is well in advance, the seeds are not properly dried. At that
	time proper drying can be ensured by frying seed in domestic hearth. Otherwise it is to develop a decorticator having axle tougher than wood but softer than
	iron.
Dhenkanal	At what Ph of soil along with moisture availability it will encourage the crusal organize for post emergence damping off
Dhenkanal	Power tiller operated 5-row seed cum fertilizer drill can sow all types of seeds like Groundnut, Green gram, blackgram. It reduces the labour cost and seed
	rate.
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.

3. Achievements of Frontline Demonstrations

3.1. Follow-up for results of FLDs implemented during previous years

KVK Name		Thematic		Details of popularization methods	Horiza	ontal spread of tecl	hnology
	Crop/ Enterprise	Area	Technology demonstrated	suggested to the Extension system	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	nion ICM Application of Organic Fertilizer in Onion Variet Fertilizer in Onion Variet thuriengenesis +Trichoderma viridae @ 10		Application of Biofertilizer in Onion variety N-53 Azospirilium & PSB Bacillus thuriengenesis +Trichoderma viridae @ 10 Kg each / ha.	05	08	03
Dhenkanal	Enterprise	Farm Mechanizat ion	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 Mechanizat ion	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	yptus Plant Plant tending operation with Display of the video of plantat		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) in	Group Disscussion, Field visit, Field day, Display of the video of plantation among farming community during training, fair, leaflet etc.	30	35	20

			2 nd week of June				
Dhenkanal	Enterprise	Income generati on	Backyard rearing of poultry for farm women,150-180 eggs per year,3-4 kg meat per year	Demonstration and training	20	200	-
Dhenkanal	Enterprise	Drudger y reductio n	Sugarcane budchipper removes the buds from the nodes of the sugarcane and minimizes the time, money and seed rate(30 quintal per hectare)field capacity 250 buds per hour, seed rate 3 quintal per hectare	Demonstration, training and field day	40	120	200
Dhenkanal	Enterprise	Farm Mechani zation	Use of Tractor operated Axial Flow Thresher in threshing of paddy.	Training, demonstrations, Group meeting, leaflets, flex, CD	55	15000	7000
Dhenkanal	Enterprise	Farm Mechani zation	Use of Power operated Groundnut Decorticator	Training, demonstrations, Group meeting, flex, CD	14	1560	720

3.2 Details of FLDs implemented

					Name of	Name of Variety/	Crop- Area	Resul	ts (q/ha)				No. of t	farmers	
KVK Name	year	Season	Thematic area	Technology demonstrated		Technology/	(ha) / Entrep - No.	FP (T1)	RP (T ₂)	change	sc	ST	Other s	General	Total
Dhenkanal	2015- 16	Kharif	ICM	Cultivation of tomato variety swarna sampada with good keeping quality.	Tomato	SWARAN SAMPAD	0.4ha	585	736	25	-	-	-	5	5
Dhenkanal	2015- 16	Kharif	ICM	Cultivation of Araka nilachal Shyama variety of Brinjal	Brinjal	ARKANILACHAL SHYAMA	0.4ha	167.6	232.4	27.9	-	-	3	2	5

Dhenkanal	2015- 16	Rabi	ICM	Application of Plant growth regulator (Tricontanol 2ml/liter at 2-4 leaf stage and GA 1gm / 16 liter of water before flowering) in bitter gourd	Bitter groud	NS-1068	0.4ha	160	185	15	2	-	1	2	5
Dhenkanal	2015	Kharif	IPM	To manage the collar rot in Groundnut, Summer ploughing + application of Trichoderma viridae inoculated FYM and spraying of chlorothalonil @2ml/l of water is done	Groundnut	Devi	1.0	6.35	8.29	30.55	7	2	1	-	10
Dhenkanal	2015	Kharif	IDM	Application of chemicals(Copper oxichloride 2gm / lit + Plantomycin 1 gm / lit) for control of BLB in paddy	Paddy	Pooja	1.0	37.84	44.77	18.3	-	-	-	10	10
Dhenkanal	2015- 16	Rabi	IPM	Application of mixture of profenophos + cypermethrin @2ml / lit of water to control stem borer in Summer Paddy	Paddy	Lalat	1.0	37.57	45.32	20.62	_	-	-	10	10
Dhenkanal	2015- 16	Rabi	IPM	Application of multineem @5ml/ l of water and spraying of thiomethoxam @5 g / 15 l of water to control Aphids in Cowpea	Cowpea	Utkal manika	1.0	67.35	86.95	29.10	-	-	-	10	10
Dhenkanal	2015	Kharif	ICM	Use of Variety Devi with seed rate 60Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Groundnut	Devi	5.0	6.56	8.49	29.42			25		25
Dhenkanal	2015- 16	Rabi	ICM	Use of Variety Devi with seed rate 60Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Groundnut	Devi	30	13	17.9	37.69			75		75
Dhenkanal	2015- 16	Rabi	ICM	Use of Variety M-27 with seed rate 4Kg/acre and fertilizer dose of N:P:K:: 50:25:25	Mustard	M-27	20	4.5	6.1	35.56			50		50

Dhenkanal	2015- 16	Rabi	ICM	Use of Variety Jaki-9218 with seed rate 20Kg/acre and fertilizer dose of N:P ₂ O ₅ :K ₂ O:: 20:40:40	Chickpea	Jaki-9218	10	9	12	33.34			25		25
Dhenkanal	2015- 16	Rabi	ICM	Use of Variety Uma with seed rate 4kg/acre with balance dose of fertiliser	Sesamum	Uma	10	3.31	6.08	83.68	1		24		25
Dhenkanal	2015	Kharif	Agro forestry	Kusmilac (Aghani crop) cultivation kusum plant	Lac	Aghani crop	0.1	-	40 kg/ plant	-	-	5	4	-	9
Dhenkanal	2015	Kharif	Agro forestry	Preparation of mango split by pit method	Mango	Local	5 no	40.4 kg/ pit	42 kg / pit	4	1	-	3	1	5
Dhenkanal	2015	Kharif	Agro forestry	Macro propagation of bamboo	Bamboo	B. nutans / juvenile branch cutting	5 no	12 seedling / culm	16 seedling / cum	33	-	-	5	-	5
Dhenkanal	2015	Kharif	Farm Mechanization	A cycle wheel attached with shovel type tyne, push pull action	Groundnut	Local	1.0	13.5	14.1	4.45	3		7		10
Dhenkanal	2015	Kharif	Farm Mechanization	Use of Paddy Power Weeder	Paddy	Kalachampa	1.0	43.1	45.2	4.87			10		10
Dhenkanal	2015- 16	Rabi	Farm Mechanization	Use of Powertiller operated Axial flow Thresher with threshing capacity (4- 5) q/hr	Paddy	Puja	1.0	44	44	nil	2		8		10
Dhenkanal	2015- 16	Rabi	Micro Irrigation	Use of Drip Irrigation in Watermelon	watermelon	purnima	0.4	216	262.4	21.48			01		01
Dhenkanal	2015- 16	Rabi	LPM	Use of backyard,rearing of proven breeds in backyard, Commercial feeding for one month,brooding and vaccination	PoultryEnt erprise	Black Rock	10	(i)Mortal ity rate- 50% (ii)Body weight after one month- 200gm	(i)Mortality rate-10% (ii)Body weight after one month- 350gm	(i)80% (ii)75 %	2	6	2		10
Dhenkanal	2015	Kharif	Production and managemnent		FishEnterpr ise	Fish-IMC Prawn- M.rosenbergii	1.2 ha(3 nos.)	Fish producti on-40	Fish- 38 Prawn-2.35	-			3		3
Dhenkanal	2015	Kharif	Production and managemnent	Intercropping of Javapunti(<i>P.gonionotu</i>)sin 3 species IMC culture	Fish Enterprise	Fish-IMC Javapunti- P.gonionotus	2 ha(5 nos)	26.2	28.46	8.62			5		5

3.3 Economic Impact of FLD

KVK Name	Technology demonstrated	Name of Crop/	Para	imeters		cultiv	st of vation 5/ha)		Return s/ha)		ge Net (Rs/ha)	Ratio Return	it-Cost (Gross / Gross ost)
Ivanie		Enterprise	Name and unit of Parameter	FP (T ₁)	RP (T ₂)	FP (T1)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T1)	RP (T ₂)
Dhenk anal	Cultivation of tomato variety swarna sampada with good keeping quality.	Tomato	Yield	246.9	300	60000	62500	123450	150000	63450	87500	2.06	2.40
Dhenk anal	Cultivation of Araka nilachal Shyama variety of Brinjal	Brinjal	Yield	167.6	232. 4	58000	63000	135700	156250	77700	93250	1.33	1.48
Dhenk anal	Application of Plant growth regulator (Tricontanol 2ml/liter at 2- 4 leaf stage and GA 1gm / 16 liter of water before flowering) in bitter gourd	Bitter groud	Yield	160	185	63000	79000	127300	16800	64300	89000	1.02	1.12
Dhenk anal	To manage the collar rot in Groundnut, Summer ploughing + application of Trichoderma viridae inoculated FYM and spraying of chlorothalonil @2ml/l of water is done	Groundnut	% disease incidence	13	5	18400	21200	25400	33160	7000	11960	1.3	1.6
Dhenk anal	Application of chemicals(Copper oxichloride 2gm / lit + Plantomycin 1 gm / lit) for control of BLB in paddy	Paddy	% disease incidence	25.3	16.5	29200	32200	49192	58201	19992	26001	1.68	1.80
Dhenk anal	Application of mixture of profenophos + cypermethrin @2ml / lit of water to control stem borer in Summer Paddy	Paddy	% DH, %WEH	9.6 7.8	3.9 2.7	29200	33200	48841	58916	19641	25715	1.67	1.77

Dhenk anal	Application of multineem @5ml/1 of water and spraying of thiomethoxam @5 g / 15 l of water to control Aphids in Cowpea	Cowpea	No. of aphids / 10 cm terminal twig	33	14	29400	32800	80820	104340	51420	71540	2.7	3.18
Dhenk anal	Use of Variety Devi with seed rate 60Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Groundnut	Yield	6.56	8.49	18400	21200	26240	33960	7840	12760	1.42	1.60
Dhenk anal	Use of Variety Devi with seed rate 60Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Groundnut	Yield	13	17.9	29700	38200	65000	89500	35300	51300	2.18	2.34
Dhenk anal	Use of Variety M-27 with seed rate 4Kg/acre and fertilizer dose of N:P:K:: 50:25:25	Mustard	Yield	4.5	6.1	13846	15842	18000	24400	4154	8558	1.3	1.54
Dhenk anal	Use of Variety Jaki-9218 with seed rate 20Kg/acre and fertilizer dose of N:P ₂ O ₅ :K ₂ O:: 20:40:40	Chickpea	Yield	9	12	21000	26000	45000	60000	24000	34000	2.14	2.30
Dhenk anal	Use of Variety Uma with seed rate 4Kg/acre and balance dose of fertilizer	Sesamum	Yield	3.31	6.08	18300	32300	24825	45600	6525	13300	1.35	1.41
Dhenk anal	Kusmilac (Aghani crop) cultivation kusum plant	Lac	Production of lac stick (kg/ plant)		40		3312		6000		2688		1.8:1
Dhenk anal	Preparation of mango split by pit method	Mango	Mango split produced from green mango (kg/q)	40.4	42.2	1000	1360	1425	1680	-425	320	0.7:1	1.2:1
Dhenk anal	Macro propagation of bamboo	Bamboo	Seedlings produced (no/ culm)	12	16	6100 / 100m ²	3733 / 100m ²	7000	5333	900	1600	1.14:1	1.42:1
Dhenk anal	Use of Wheel Cycle Weeder in Groundnut	Groundnut	Field capacity- (ha/h), Labour requirement- (MDs/ha)	0.0083, 20	0.04, 6	25350	2255 0	54000	56400	28650	33850	2.13	2.50
Dhenk anal	Use of Paddy Power Weeder	Power Weeder	Field capacity- (ha/h), Labour requirement- (MDs/ha)	0.013, 12	0.13 2, 1.26	30600	29200	60771	63732	30171	34532	1.98	2.18

Dhenk anal	Use of Powertiller operated Axial flow Thresher with threshing capacity (4-5) q/hr	Powertiller operated Axial Flow Thresher	Field capacity- (qtl/h), Labour requirement- (MDs/qtl)	1.5, 0.083	4.5, 0.02 7	28250	26798	62040	62040	33790	35242	2.19	2.31
Dhenk anal	Use of Drip Irrigation in Watermelon	Drip irrigation	Yield- (qtl/ha), Water consumption- (mm)	216, 830	262. 4, 550	49730	56810	108000	131200	58270	74390	2.17	2.30
Dhenk anal	Use of backyard, rearing of proven breeds in backyard, Commercial feeding for one month, brooding and vaccination	Poultry Enterprise	i)Mortality rate, (ii)Body weight after one month	(i)50%, (ii)200g m	(i)10 %, (ii) 350g	Rs.520/ 20 birds	Rs90 0/20b irds	Rs.1440 /survivi ng birds	Rs.2959 / survivin g birds	Rs.920	Rs.2059	2.76	3.26
Dhenk ana	Fish cum prawn culture	Fish Enterprise	Fish Prawn	800gm-	850g m 80g	2 lakh	2.2 lakh	4.4 lakh	5.01 lakh	2.4	2.81	2.2	2.27
Dhenk ana	Intercropping of Javapunti(<i>P.gonionotus</i>)in 3 species IMC culture	Fish Enterprise	Fish Javapunti- P.gonionotus	700 gm -	750g m 250g m	1 lakh	1.052 lakh	2.225 lakh	2.459 lakh	1.225	1.407	2.22	2.34

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
	2015	Kharif	Drudgery	Planting of	It removes the buds from	Enterprise	Enterprise	Rainfed	10no	10
			Reduction	sugarcane is a	the node of the sugarcane	Sugarcane				
Dhambanal				drudgery prone	and minimises the time					
Dhenkanal				activity and more seed material is	,money and also seed					
					rates(80qtl/ha); Field capacity 250 buds /hr. seed					
				required (30qtl/ha)	1 5					
Dhenkanal	2015	Kharif	Nutritional	Non availability of	rate 3qtl/ha Use of Azolla cattle feed in	Enterprise	Azolla caroliniana	Homostood	10	10
Dhenkanai	2015	Knam				Azolla	Azolla caroliniana	Homestead	10	10
			support	green fodder and	2:1 ratio (Commercial feed	Azolla				
				excess cost of	and Azolla) Multiplication					
				commercial feed	of Azolla (Variety. Azolla					

					<i>caroliniana)</i> in low cost tank /pit of size 2mX1.5mX20cm and feeding 1-1.5kg Azolla per cow per day					
Dhenkanal	2015- 16	Rabi	Income generation	Lack of knowledge and skill on preparation of value added products from peanut leads to low income	addition of hydrogenated	Groundnut Enterprise	Enterprise	Homestead	10	10
Dhenkanal	2015- 16	Rabi	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 vegetablesupto3days,other veg5days,patatoes- 52days,mango-8days; Length-165cm,breadth- 115cm,height-67.5cm with a cavity of 7.5cm	Enterprise Vegetable	Enterprise	Homestead	10	10

3.5 Economic Performance Home Science FLDs:

												Perfor	mance l	Indicato	or / Par	ameter							
KVK name	Technology to be Demonstrated	Out m2	tput 2/h	En Exp u	st. ergy endit re min.	bea	HR it/m n	red on dru	% lucti 1 in 1dge 'y	inci e effi	% reas in icie cy		uction unit		st of out		Incremental income T1 T2		d(Kg/ 1a)	Net	Return	Savi ng in Rs	BC rati 0
		T1	Т2	T1	Т2	T 1	T 2	T 1	T2	T 1	T 2	T1	T2	T1	Т2	T1	T2	T1	T2	T1	T2		
Dhenk	It removes the	15	29	9.7	10.	11	12	-	40	-	8												
anal	buds from the	5	0	2	83	6	3		.5		7												
	node of the	set	bu																				
	sugarcane and	S	ds																				
	minimises the	pe	pe																				
	time ,money and	r	r																				
	also seed	ho	ho																				
	rates(80qtl/ha);	ur	ur																				
	Field capacity																						
	250 buds /hr.																						

	seed rate 3qtl/ha															
Dhenk anal	Use of Azolla cattle feed in 2:1 ratio (Commercial feed and Azolla) Multiplication of Azolla (Variety. <i>Azolla</i> <i>caroliniana</i>) in low cost tank /pit of size 2mX1.5mX20cm and feeding 1- 1.5kg Azolla per cow per day				100 litres / 10co ws /day	120 litres /10 Cow /day	Rs.1 09	Rs.9 4	Rs.3 00	Rs.36 0	10 litr es /co w / da y	12 litre s/ Co w /day	Rs.1 91	Rs.266	Rs. 75	T1- 1.7 T2- 2.8
Dhenk anal	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				10kg	9.2 kg	Rs. 600	Rs.8 00	Rs.7 00	Rs. 5060	10 kg	9.2 kg	Rs.1 00	Rs.4260	Rs.4 160	T1- 1.1T 2- 6.3
Dhenk anal	Temp. of zero energy cool chamber remains within 10 to 15 degree centigrade in which the self life of leafy vegetablesupto3d ays,other veg 5days,patatoes- 52days,mango- 8days; Length- 165cm,breadth- 115cm,height- 67.5cm with a cavity of 7.5cm				20 kg /year	1200 kg /year	Rs. 200	Rs. 900	Rs. 300	Rs. 4000/ year	_	_	Rs. 100	Rs.3100 /unit /year	Rs. 3000	T1- 1.5T 2- 4.4

KVK Name	Сгор	Activity	No. of activities organized	Number of participants	Remarks
Dhenkanal	Bittergourd	Training, Group Meeting, Leaflets, Method Demonstrations	07	60	Farmers accepted the technology of application of tricontanol hormone in Bittergourd to induce fruit.
Dhenkanal	Tomato	Training, Group Meeting, Leaflets, Method Demonstrations,	06	100	Farmers were very mch satisfied with the huge yield obtained from tomato variety Swarna sampad
Dhenkanal	Paddy	Training, Group Meeting, Leaflets, Method Demonstrations, Film show, Field day	10	500	Farmers were satisfied with the implement by operating themselves.
Dhenkanal	Groundnut	Training, Group Meeting, Field demonstrations, Film show, Field Day	10	475	Farmers were eager to know about field capacity of Wheel cycle Weeder.
Dhenkanal	Watermelon	Training, Field demonstrations, Group meeting, film show	5	130	Farmers are satisfied with the technology of drip irrigation in high water requirement crop like watermelon.
Dhenkanal	Sugarcane Bud Chipper	Training, Method Demonstrations,	5	100	Farmers were convinced about the operation of bud chipper.
Dhenkanal	Peanut Butter	Training, Method demonstration	4	30	Farm women were very interested to take up this peanut butter making to commercial level.
Dhenkanal	Mahua Seed Decorticator	Training, Group Meeting, Field demonstrations, Film show, Field Day	10	56	Both farmers and farm women were competent enough to operate the Decorticator. It increased the working capacity.
Dhenkanal	Cowpea	Training, Group Meeting, Field demonstrations, Field Day	08	60	By application of chemicals, percentage of disease infestation could be reduced.
Dhenkanal	Powertiller operated Axial Flow Thresher	Training, Group Meeting, Field demonstrations, Film show	10	120	Farmers are convinced about the technology but transportation of thresher from one place to another place is little bit time consuming process.

3.6 Training and Extension activities proposed under FLD

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.						

4. Feedback System 4.1. Feedback of the Farmers to KVK

			Feedback	
Name of KVK	Technology appropriations	Methodology used	Benefits of OFT/FLD	Future Adoption
Dhenkanal	Solution to the high labour requirement in transplanting of Rice	Use of self propelled 8-row Rice Transplanter	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 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	Pea nut butter preferred for home consumption	Individual house hold interaction	Good enterprise for income generation	It can be used for enhancing house hold nutrition

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	3.10.15 and Sahala	25
Dhenkanal	FW	SHG meet	7.1.16 and Tandimunda	15
Dhenkanal	FW	Group Meeting	10.04.15 and Sogara	35
Dhenkanal	Vocational	PRA survey, Group Meeting, discussion with Farmers, club	20.05.15, Talabarkote, 09.05.15, Arada,	60
Dhenkanal	FW	PRA survey, Group meeting	12.06.15, Akrantapur	30
Dhenkanal	FW	PRA Survey, Group Meeting, visit to farmers' field	19.08.15, Akrantapur	50
Dhenkanal	FW	Group Meeting	7.10.15, Bhangamal	35

A	bbreviation U	Jsed
	FW	(A) Farmers &
	RY	(B) Rural You
	TO	$(\mathbf{O}) \mathbf{E}$

AUDIEVIATION (U Sed
FW	(A) Farmers & Farm Women
RY	(B) Rural Youths
IS	(C) Extension Personnel
ONC	On Campus Training Programme
OFC	Off Campus Training Programme
Μ	Male
F	Female
Т	Total
Thematic A	reas 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	Cate-	Training	Thematic		No. of	Duration					cipants						
KVK	gory	Type	area	Training Title	Courses	(Days)		Jen		SC		ST		iers			
KVK	gory	турс	aica		Courses	(Days)	Μ	F	Μ	F	M	F	Μ	F			
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16			
Dhenkanal	FW	ON	HOV	Vegetable seedling production under polyhouse	2	2	10	14	1								
Dhenkanal	FW	ON	PHM	Post harvest management and value chain management	2	2	22	3									
Dhenkanal	FW	ON	HOV	Cultivation of kharif tomato	2	2	24	1									
Dhenkanal	FW	ON	HOS	Training on off season onion farming	2	2	25										
Dhenkanal	FW	OFF	HOS	Production tecnology of organic spices	1	1	25										
Dhenkanal	FW	OFF	НОО	Protected cultivation of commercial flower	1	1	23	2									
Dhenkanal	FW	OFF	HOF	Commercial papaya cultivation	1	1	10	7	8								
Dhenkanal	FW	ON	HOF	Commercial cultivation of banana	2	2	6	3	6								
Dhenkanal	FW	OFF	HOF	Training on cultivation management planting timeand canopy management in mango	1	1	22		3								
Dhenkanal	FW	OFC	PLP	Management of blast, sheath blight & BLB disease in Paddy	1	1			6	1	13		5				
Dhenkanal	FW	OFC	PLP	Technology for treatment of seed & Seedlings for control of diseases	1	1							25				
Dhenkanal	FW	ONC	PLP	Integrated Pest Management in Paddy	1	2							25				
Dhenkanal	FW	ONC	PLP	Integrated pest & disease management in Groundnut	1	2							22	3			
Dhenkanal	FW	ONC	PLP	Integrated pest & disease management in Arhar	1	2							25				
Dhenkanal	FW	OFC	PLP	Integrated pest & disease management in Solanaceous crop	1	1							23	2			
Dhenkanal	FW	OFC	PLP	Pest & Disease management in sesamum	1	1							25				
Dhenkanal	FW	OFC	PLP	Pest & Disease management in	1	1					24	1					

Name of	Cate-	Training	Thematic		No. of	Duration			1		cipants			
KVK	gory	Туре	area	Training Title	Courses	(Days)		len		SC		ST		ners
					_		M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
				Greengram										<u> </u>
Dhenkanal	FW	OFC	PLP	Pest & Disease management in Cucurbitaceous crop	1	1							25	
Dhenkanal	FW	OFC	PLP	Pest & Disease management in Cole crops	1	1							25	
Dhenkanal	FW	ONC	AGF	Processing and preservation of the seed	1	2			4		2		18	1
Dhenkanal	FW	OFC	AGF	Selection of plus tree for seed collection	1	1							9	16
Dhenkanal	FW OFC AGF collection FW OFC AGF Establishment and management of seed orchard		1	2							11	14		
Dhenkanal	FW	ONC	AGF	Value addition of raw jack fruit	1	2	3	1	2	1	1	1	16	
Dhenkanal	FW	ONC	AGF	Value addition from sweet potato	1	1	12		2	1				
Dhenkanal	FW	ONC	AGF	Preparation of RTS from Elephant apple	1	1	11	12	2					
Dhenkanal	FW	ONC	AGF	Preparation of squash from mahua flower	1	1	3	1	2	1	1	1	16	
Dhenkanal	FW	ONC	AGF	Extraction of chironjee dana (Karnel) from char seed	1	1				1	3		14	7
Dhenkanal	FW	ONC	AGF	Preservation of tamarind	1	1	3	1	2	1	1		10	7
Dhenkanal	FW	ONC	AEG	Use of farm implements in direct seeded Paddy cultivation	1	2			6		1		18	
Dhenkanal	FW	ONC	AEG	Technique of nursery raising for using self propelled Rice Transplanter	1	2			3	2			20	
Dhenkanal	FW	OFC	AEG	Use of Wheel Cycle Weeder for intercultural operations in Groundnut	1	1							22	3
Dhenkanal	FW	OFC	AEG	Operation & maintenance of paddy Power weeder	1	1							25	-
Dhenkanal	FW	ONC	AEG	Repair & Maintenance of Diesel Pumpset	1	2							25	-
Dhenkanal	FW	OFC	AEG	Micro irrigation in Horticultural crops	1	1			3	1			12	9
Dhenkanal	FW	OFC	AEG	Land preparation and calibration of Powertiller operated Seeddrill	1	1							18	7
Dhenkanal	FW	OFC	AEG	Operation, Maintenance, safety precautions to be taken in using	1	1			1				24	

Name of	Cate-	Training	Thematic		No. of	Duration					cipants			
KVK	gory	Туре	area	Training Title	Courses	(Days)		Gen		SC	-	ST		ners
							M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
				Power Tiller operated Axial Flow Thresher										
Dhenkanal	FW	OFC	AEG	Operation & maintenance of Groundnut harvesting implements	1	1					25			
Dhenkanal	FW	OFC	AEG	Irrigation scheduling according to crop water requirement at different critical stages	1	1					14	7	4	
Dhenkanal	FW	ONC	WOE	Enhancing HH nutritional security through nutritional food suppliments	1	2						25		
Dhenkanal	FW	ONC	WOE	Kitchen garden for nutritional security	1	2								25
Dhenkanal	FW	OFC	WOE	Promotion of sustainable agriculture practices through WSHGs	1	1				25				
Dhenkanal	FW	ONC	WOE	Value addition of mango	1	1		25						
Dhenkanal	FW	ONC	WOE	Cultivation of azolla in backyard for milching cow	1	2				25				
Dhenkanal	FW	ONC	WOE	Storage of vegetables in zero energy cool chamber to minimise post harvest loss	1	2				2		23		
Dhenkanal	FW	OFC	WOE	Mushroom cultivation in different substrate	1	1		25						
Dhenkanal	FW	OFC	WOE	Safe storage of food grains	1	1				3				22
Dhenkanal	FW	ONC	WOE	Value addition of stone apple	1	1		25						
Dhenkanal	FW	OFC	WOE	Value addition of groundnut	1	1				4				21
Dhenkanal	FW	OFC	WOE	Use of improved technologies to ameliorate hardship in agricultural operations	1	1				8		12		5
Dhenkanal	FW	ONC	WOE	Backyard poultry for additional house hold income	1	2				8				17
Dhenkanal	FW	OFC	LPM	Importance of bypass protein feeding in milch animals	1	1							22	3
Dhenkanal	FW	OFC	LPM	Scientific broiler farming	1	1				3		18		4
Dhenkanal	FW	OFC	LPM	Preventive measures of ecto and endo parasitic infestation of animals	1	1			7				18	
Dhenkanal	FW	OFC	LPM	Feeding of goats	1	1			12	5	7	1		
Dhenkanal	FW	OFC	FIS	Site selection& construction of	1	1	7		3		2		13	

Name of	Cate-	Training	Thematic		No. of	Duration					cipants			
KVK	gory	Training Type	area	Training Title	Courses	(Days)		Gen		SC		ST		ners
	gury	Туре	aica		Courses	(Days)	M	F	M	F	Μ	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
				different type of pond1										
Dhenkanal	FW	OFC	FIS	Identification of different types of cultivable fishes	1	1	12		4				9	
Dhenkanal	FW	OFC	FIS	Culture technique of java punti	1	1	9	2	4				8	2
Dhenkanal	FW	OFC	FIS	Use of different probiotic& their funtion	1	1	7		5		3		10	
Dhenkanal	FW	OFC	FIS	Culture technique of javapunti with IMC	1	1	8		5				9	3
Dhenkanal	FW	OFC	FIS	DDDisease management in pisciculture	1	1	12						13	
Dhenkanal	FW	OFC	FIS	Feeding management in pisciculture	1	1	6		4		3		8	4
Dhenkanal	FW	OFC	FIS	Pond preparation after stocking of fish in old pond	1	1	6						14	5
Dhenkanal	FW	OFC	FIS	Culture technique of spawn to fry	1	1	6		2		2		15	
Dhenkanal	FW	OFC	FIS	Fish cum prawn culture	1	1	8						12	5
Dhenkanal	RY	ON	НОО	Raising of qulity flower seedling	2	2	15							
Dhenkanal	RY	ONC	PLP	Use of Pheromone Trap & bio pesticide in IPM practices	1	2							15	
Dhenkanal	RY	ONC	AGF	Preparation of shellac and button lack	1	1							16	4
Dhenkanal	RY	ONC	AGF	Preparation of jigit (increase stick binder) from medha bark	1	2			13		2			
Dhenkanal	RY	ONC	AEG	Entrepreneurship development through faram mechanization	1	2							15	
Dhenkanal	RY	ONC	AEG	Cost economics of Agro Service Centre Model	1	2			3				12	
Dhenkanal	RY	ONC	WOE	Orientation of RY on economics of Agricultural enterprises	1	1				2		9		4
Dhenkanal	RY	ONC	FIS	Stunted fingerlings production	1	2	5						10	
Dhenkanal	RY	ONC	FIS	Ornamental fish breeding and culture	1	2	7						8	
Dhenkanal	RY	ON	HOV	Establishment of hortibase enterprise	2	2	6		9					
Dhenkanal	IS	ON	HOV	Protected cultivation of Vegetable	2	2	15							
Dhenkanal	IS	ONC	PLP	Recent development in Eco friendly Pest management concept	1	2							11	4
Dhenkanal	IS	ONC	PLP	Use of Bioagent & botanicals for pest & disease management	1	2							12	3

Nama of	Cata	Tusining	Thomatio		Nasf	Dunation				Partic	ipants			
Name of KVK	Cate-	Training	Thematic	Training Title	No. of Courses	Duration	Gen		SC			ST	Oth	iers
NVN	gory	Туре	area			(Days)	Μ	F	M	F	Μ	F	Μ	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
Dhenkanal	IS	ONC	AGF	Chemical treatment wood	1	2							15	
Dhenkanal	IS	ONC	AGF	Biomass estimate of standing tree	1	2		12	2	1				
Dhenkanal	IS	ONC	AGF	Physical and chemical properties of fly ash	1	2	1		1				14	9
Dhenkanal	IS	ONC	AEG	Water Management in Horticultural crops	1	1			1				10	4
Dhenkanal	IS	ONC	WOE	Women empowerment through marked led extension	1	1			1	1			7	6
	IS	ONC	FIS	Intercropping of javapunti	1	2	6						9	

Table 5.2. Details of Vocational training programmes for Rural Youth conducted by the KVKs

NT C		C 1		Duration	n Number of Beneficiaries											
Name of	Training title	Crop /	Identified Thrust Area	of training	(Gen		SC	S	Γ	Otl	hers				
KVK		Enterprise		(days)	Μ	F	M	F	Μ	F	Μ	F				
Dhenkanal	Bee Keeping	Enterprise	Income Generation Activity	06			1				14					
Dhenkanal	Seed production techniqueof IMC	Enterprise	Income Generation Activity	06			6				9					

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

Name of		• • •	Self employed after tra	aining	
KVK	Training title	Type of units	Number of units	Number of persons employed	Number of persons employed else where
Dhenkanal					

Table 5.4. Sponsored Training Programmes

		Ī	Sub-				No.	. of I	Partic	cipan	ts					Fund
Name of KVK	Title	Thematic area (as given in abbreviation	per	Client (FW/ RY/	Dura- tion (days)	No. of courses	G	Gen		Others		SC	s	Т	Sponsoring Agency	received for training (Rs.)
		table)	5 of Table T1)	IS)	(uujs)		M	F	М	F	M	F	M	F		
Dhenkanal	C-DAP	Extension		IS	02				40						CA, OUAT	30,000
Dhenkanal	Rice Production Technology	IPM		FW	02	01			25						FIAC, Dhenkanal	
Dhenkanal	Micro irrigation system and Protected cultivation	Micro Irrigation		RY	30	30			22		6		2		Odisha Watershed Development Mission	4,39,500

		· · · · · ·	Sub-				No.	of F	Parti	cipan	ts					Fund
Name of KVK	Title	Thematic area (as given in abbreviation	theme (as per column no	Client (FW/ RY/	Dura- tion (days)	No. of courses	Ge	en	Otl	ners	5	SC	s	Т	Sponsoring Agency	received for training (Rs.)
		table)	5 of Table T1)	IS)	(uays)		Μ	F	М	F	M	F	M	F		
Dhenkanal																

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

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	Chan know (Sco	ge in ledge	Chanş Productio	ge in	Char	nge in ne (Rs)	Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.)
		ti annees	Before	After	Before	After	Before	After	3. % change in knowledge, production & Income
Dhenkanal	Value addition of Groundnut	25	12	23	20kg	18.4	10000	63000	10 nos, 20nos, 3. 30,10,30
Dhenkanal	Value addition of Stone apple	25	5	32	25Kg	10lit	1250	7500	05 nos,10nos,3. 20, 10,70
Dhenkanal	Integrated Pest Management in Paddy	25	4	7	36	43	17450	23560	120, 210, (a) 75,19.45,35.01
Dhenkanal	Integrated pest & disease management in Groundnut	25	2	6	12	15.4	7340	10430	40, 106, (a) 200, 28.33, 42.09
Dhenkanal	Management of Blast, sheath blight and BLB disease in Paddy	25	3.6	8.8	38	44.2	16579	21785	80, 154, (a) 144, 16.31, 31.40
Dhenkanal	Selection of plus tree for seed collection	25	5	9	-	-	200	300	2, 20, (3) 80,0 & 50
Dhenkanal	Processing and storage of seed	25	6	10			200	250	0, 25, (3) 66,0 & 25
Dhenkanal	Value addition of raw jack fruit	25	3	9			200	300	0, 20, (3) 200, 0 & 50
Dhenkanal	Value addition from sweet potato	15	2	9			200	300	0, 10 (3) 350,0 & 50
Dhenkanal	Extraction of chironjee dana (Karnel) from char seed	25	2	8			320	480	200, 50, (3) 300, 0 & 50
Dhenkanal	Preparation of shellac and button lack	15	4	10			500	900	0, 5, (3) 150,0 & 80
Dhenkanal	Preparation of jigit (increase stick binder) from medha bark	20	3	10			150	200	0, 15, (3) 233,0 & 33
Dhenkanal	Biomass estimate of standing tree	15	4	10			400	800	80, 50, (3) 150,0 & 100
Dhenkanal	Chemical treatment of wood	15	2	9					0, 10, (3) 350,0 & 0
Dhenkanal	Use of farm implements in direct seeded Paddy cultivation	25	35	85	42	45.1	27025	34475	1. 55, 2. 140, 3. 142.85, 7.38, 27.56

Dhenkanal	Use of Wheel Cycle Weeder for intercultural operations in Groundnut	25	56	96	13.5	14.4	27750	34000	2. 300, 6.67,22.52
Dhenkanal	Land preparation and calibration of Seeddrill	25	10	75	14.6	16.8	31600	35400	1. 30, 2.100, 3. 650, 15.06, 12.02
Dhenkanal	Use of Paddy Reaper to solve labour and time	25	42	98	-	-	33920	38000	1. 200, 2. 400, 3. 133.34, 12.02
Dhenkanal	Use of low cost harvesting and threshing implements for Groundnut	25	36	82	-	-	24800	30400	2. 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	1. 40, 2. 200, 3. 225, 10.88, 27.68
Dhenkanal	Repair & maintenance of Diesel Pumpset	10	46	84	-	-	250/-	400/-	2. 75, 3. 82.60, 60

6. EXTENSION ACTIVITIES

		No. of			De	etail of Pa	rticipants	5			Remarks	
Name of		activiti	No. of		mers	SC			ension		кешагкя	
the KVK	Activity	es (Target ed)	activities (Achieved)	(Otl M	ners) F	(Farı M	ners) F	M Off	icials F	Purpose	Topic s	Crop Stages
Dhenkanal	Field Day	16	10	<mark>230</mark>	<mark>40</mark>	<mark>65</mark>	<mark>45</mark>	<mark>15</mark>	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	<mark>375</mark>	<mark>90</mark>	<mark>85</mark>	<mark>50</mark>	<mark>11</mark>	<mark>3</mark>			
Dhenkanal	Kisan Ghosthi	8	6	<mark>96</mark>	<mark>24</mark>	<mark>45</mark>	<mark>15</mark>	<mark>4</mark>	2	Popularization and dissemination of technology	Improved cultivation of Kharif crops	Kharif crop season
Dhenkanal	Exhibition	2	5									
Dhenkanal	Film Show	20	28	<mark>640</mark>	<mark>180</mark>	<mark>290</mark>	<mark>132</mark>	22	<mark>6</mark>	Popularization and improved technology	10 film CDs	Kharif crop season
Dhenkanal	Method Demonstrations	5	5	<mark>72</mark>	21	32	-	11	4	Popularization and improved technology	Improved cultivation of Kharif crops	Kharif crop season
Dhenkanal	Farmers Seminar	1	1	<mark>18</mark>	<mark>5</mark>	<mark>7</mark>						
Dhenkanal	Workshop	1	1	<mark>28</mark>	<mark>4</mark>	9	5	4		Popularization of use of traps	Blast disease in Rice	Mid season stage
Dhenkanal	Group meetings	20	23	<mark>260</mark>	<mark>65</mark>	<mark>52</mark>	<mark>24</mark>	<mark>8</mark>	2	Problem analysis	-	Kharif

No. of					De	tail of Par	rticipants	5				
Name of	A adia	activiti	No. of activities	Far	mers	SC/	ST	Exte	nsion		Remarks	
the KVK	Activity	es	(Achieved)	(Otl	iers)	(Farn	ners)	Off	icials	D	Torris a	Crop
		(Target	(Acineveu)	Μ	F	М	F	M	F	Purpose	Topic s	Stages
												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	<mark>22</mark>	<mark>8</mark>	<mark>5</mark>						
Dhenkanal	Scientific visit to farmers field	170	225	<mark>836</mark>	<mark>62</mark>	<mark>349</mark>	<mark>68</mark>					
Dhenkanal	Farmers visit to KVK	360	2267	<mark>1239</mark>	<mark>401</mark>	<mark>428</mark>	<mark>199</mark>			Popularization and improved technology	Improved cultivation of Kharif & rabi crops	Kharif & rabi crop season
Dhenkanal	Diagnostic visits	25	16	<mark>151</mark>	<mark>28</mark>	<mark>30</mark>	<mark>6</mark>	1				
Dhenkanal	Exposure visits	02	02	<mark>20</mark>								
Dhenkanal	Ex-trainees Sammelan	04	02	<mark>33</mark>	<mark>13</mark>	<mark>14</mark>						
Dhenkanal	Soil health Camp	1	2	<mark>525</mark>	<mark>145</mark>	<mark>230</mark>						
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	4	2		64		31		5	Technology transfer	Small scale activities	

Name of		No. of activiti	No. of	For	De mers	tail of Par SC/	•	1	nsion	R	Remarks		
the KVK	Activity	es	activities		ners)	(Farn			icials		Crop		
		(Target	(Achieved)	Ň	F	M	F	Μ	F	Purpose	Topic s	Stages	
	conveners meetings									projects			
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	25.6.2015	Quarterly	500	500
Dhenkanal	25.9.2015	Quarterly	500	500
Dhenkanal	25.12.2015	Quarterly	500	500
Dhenkanal	25.3.2016	Quarterly	500	500

7.2 Literature developed/published

KVK Name	Туре	Title	Author's name	Number of copies
Dhenkanal	Booklet	Capsicum under protected cultivation	M. Mohanty	500
Dhenkanal	Booklet	Technological intervention	M. Mohanty (Editor)	50
Dhenkanal	Leaflet	Lac cultivation	M. Mohanty	1000
Dhenkanal	Leaflet	Medicinal plant for Dhenkanal district	M.Mohanty	1000
Dhenkanal	Booklet	Improved package and practices of Mustard cultivation	S. K. Mohapatra, D. Panda & D. Paramajita	400
Dhenkanal	Booklet	Improved package and practices of sesamum cultivation	S. K. Mohapatra, D. Panda & D. Paramajita	300
Dhenkanal	Booklet	Improved package and practices of chickpea cultivation	S. K. Mohapatra, D. Panda & D. Paramajita	300
	Booklet	Zero energy cool chamber	S. Pal, M. Prustry & D. Paramajita	500

7.3 Details of Electronic Media Produced

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

8. Production and supply of Technological products

KVK Name	Major group/class	Сгор	Variety	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Dhenkanal	Foundation	Rice	Pratikhya	150.4	368480		
Dhenkanal	Mushroom	Rice straw mushroom	V.volvacea	2.49	17430	Public sale	
Dhenkanal	Mushroom	Oyster mushroom	P.sajarcaju	0.75	3750	Public sale	

8.2 Planting Material production

KVK Name	Major group/class	Сгор	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Dhenkanal	Horticulture	Papaya saplings	CHD, Pusha Nanha	2070	27600	100	0.8
Dhenkanal	Horticulture	Drumstick	PKM-1	190	1900	25	
Dhenkanal	Horticulture	Onion	Bhima raj, Bhima super	400000	20000	50	
Dhenkanal	Horticulture	Brinjal	Araka Nilachala Shama, Tarini, Utkal madhuri	19800	19800	200	
Dhenkanal	Horticulture	Tomato	Swarna Sampad	16900	16900	25	
Dhenkanal	Horticulture	Chilli	Utkal Ava	1200	1200	10	
Dhenkanal	Horticulture	Capsicum		290	290	5	
Dhenkanal	Forestry	Forest seedlings		1124	13388	20	
Dhenkanal	Forestry	Medicinal seedlings		200	2000	10	

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	615		3075	45	

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	90	4950	10

9. Activities of Soil and Water Testing Laboratory

9.1 Details of soil samples analyzed so far:

KVK Name	Status of	Year of	Details	No. of Samples	No. of Farmers	No. of Villages	Amount	Soil	report
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	establishment of Lab	establishment					realized	distributed to the farmers (Nos)
Dhenkanal	Existing	`2004-05	Soil samples	1028	1028	22		628

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					

10.Rainwater HarvestingTraining programmes conducted by using Rainwater Harvesting Demonstration Unit

Name of KVK	Date	Title of the training course	Client (PF/RY/EF)	No. of		of Particip luding SC/		No. of SC/ST Participants		
				Courses	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	2015	Raising of qulity flower seedling	2	02	02		12
Dhenkanal	June	2015	Use of Pheromone Trap & bio pesticide in IPM practices	2	02	02		12
Dhenkanal	July	2015	Preparation of jigit (increase stick binder) from medha bark	2	02	02		12
Dhenkanal	August	2015	Entrepreneurship development through faram mechanization	2	02	02		12
Dhenkanal	August	2015	Carp spawn production in portable carp hatchery	2	02	02		12
Dhenkanal	September	2015	Orientation of RY on economics of Agricultural enterprises	2	2	2		12
Dhenkanal	September	2015	Stunted fingerlings production	2	2	2		12
Dhenkanal	October	2015	Ornamental fish breeding and culture	2	2	2		12
Dhenkanal	October	2015	Establishment of hortibase enterprise	2	2	2		12
Dhenkanal	November	2015	Micro irrigation system and protected cultivation	30	30	30		12
Dhenkanal	December	2015	Cost effective method of Rice cultivation by using Self Propelled Rice Transplanter	01	02	02		12
Dhenkanal	January	2016	Cost economics of Agro Service Centre Model	1	2	2		12

Dhenkanal	February	2016	Yearlings production	1	2	2	12
Dhenkanal	March	2016	Different avenues for income generation	1	2	2	12
Dhenkanal	March	2016	Seed production techniqueof IMC	6	15	5	12
Dhenkanal	March 2016	2016	Bee Keeping	6	15	5	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	5	1	Renovation work is required.

13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Dhenkanal	31.07.15	25	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.Peanut butter can be taken up as a small scale enterprise so that profit can be earned. Mushroom spawn production unit should be popularized among the farm women.
Dhenkanal	29.12.15	25	Seed production programme for pulses and vegetables should be taken up in KVK revolving fund activities. Training programmes should be organized on crop management practices under protected structure. IPM practices should be developed for pest attack in Papaya.Emphasis should be given on Organic farming.

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

KVK Name	No. of messages sent	No. o	f beneficiary	Sponsoring agency (NIC, Farmers Portal, etc.)	Major recommendations
		Farmers	Ext. Pers.		
Dhenkanal	68	5200	245	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	50000	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	24658	148417	144967

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 cabbage	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	
12	Line sown groundnut	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. N 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	1.05.2015	50
2	7.8.15	25
3	31.10.15	200
4	29.12.15	25
5	28.3.16	200

21. Outreach of KVK

Name of VVV	Number	Number of Villages		
Name of KVK	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	Farming situation of the concerned ring district and valuable suggestion during scientific		
		and demonstration activities	interaction with progressive farmers		
2	Jajpur	Research person in training programme	Farming situation of the concerned ring district and valuable suggestion during scientific		
		and demonstration activities	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	01.05.2015		SAU		In the occasion of Agri-enter preneurs
						meet
Dhenkanal	Prof. M. Kar, VC, OUAT, BBSR & Prof. S.Rout, Dean,	7.8.15		SAU		SAC Meeting
	Extension Education OUAT, BBSR					_
Dhenkanal	Sj. Tathagata Satapathy, Hon'ble MP, Dhenknal,	01.7.2015		SAU		In the occasion of Pre-kharif Farmers Fair
Dhenkanal	Dr. A. Mishra, ZPD, Jabalpur	31.10.15	ICAR			Bioversity Farmers fair

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	21	

26. E-CONNECTIVITY

Name of KVK	Number and	I Date of Lectu	re delivered from l	KVK Hub	No. of lectors	Brief	Remarks
	Date	No. of Staff atten ded	No. of call received from Hub	No. of Call mate to Hub by KVK	organized by KVK	achieveme nts	
Dhenkanal							Not functioning

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	14	14	

29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Dhenkanal	S. Pal	SMS (Home Science)	1	Review cum Action Plan workshop at Ujjain
Dhenkanal	D. Paramajita	SMS (Ag. Engg)	1	Review cum Action Plan workshop at Bhopal
Dhenkanal	J. Sahoo	P. A. (Fishery)	1	Review cum Action Plan workshop at CIFA, BBSR

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
Dhenkanal	3	3

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Dhenkanal	M. Mohanty	SMS (Forestry)	2	Orientation training on kvk activities
Dhenkanal	D.S.Kar	SMS (Horticulture)	1	Training on Fertilizer status in soil
Dhenkanal	J. Sahoo	P. A. (Fishery)	1	Training on soil testing
Dhenkanal	G. D. Moharana	P.A (Computer)	1	2 days programme on computer application

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
Dhenkanal	4	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
Dhenkanal	S. Pal	SMS (Home Science)	1	Short course

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
Dhenkanal	1	1

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			

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
Dhenkanal			

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	KVK Crops (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				

Bio-Fertilizer

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

Verms Produced

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			

Awareness campaign

Name of KVK	Meetings		Gosthies		Field da	ys	Farmers fa	ir	Exhibition		Film show	
	No.	No. of	No.	No. of	No.	No. of	No.	No. of	No.	No. of farmers	No.	No. of
		farmers		farmers		farmers		farmers				farmers
Dhenkanal	15	450	2	60	2	80			1	100	4	80

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

Nome of Activity	Number of Participants/Beneficiaries to be Covered			
Name of Activity	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	01	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)