

# ANNUAL PROGRESS REPORT

*(April 2016 - March 2017)*



***KVK, DHENKANAL***



**Orissa University of Agriculture & Technology**  
**Bhubaneswar**

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## REPORTING PERIOD – April 2016 to March 2017

### Summary of KVK Annual Report (Quantifiable Achievement) for the year 2016-17

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
<b>1</b>	<b>On Farm Testing</b>			
	Proposed OFT	25		237
	On Going OFT	-		-
	Technologies assessed (Completed OFT)	-		-
	Technologies refined	-		-
	On farm trials conducted	24		226
<b>2</b>	<b>Frontline demonstrations</b>	-		-
	Proposed Frontline demonstrations	27		114
	On Going Frontline demonstrations	-		-
	FLDs conducted on crops	8		60
	Area under crops (ha.)	5.6		60
	FLD on farm implement and tools	4		38
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	4		40
	FLD on Fisheries - Finger lings	3		12
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	2		14
	FLD on Women in Agriculture - ( Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	3		30
<b>3</b>	<b>Training programmes</b>	<b>No. of Course</b>	<b>Duration (days)</b>	<b>Participants</b>
	Farmers	44	44	1100
	Farm women	9	9	225
	Rural youth	8	8	120
	Extension personnel/ In service	7	7	100
	Vocational trainings	2	6	20
	Sponsored Training	1	4	30
	<b>Total</b>	<b>71</b>	<b>78</b>	<b>1595</b>
		<b>No. of programmes</b>	<b>Participants</b>	
<b>4</b>	<b>Extension Programmes</b>	2239		-
<b>5</b>	<b>Production of technology inputs etc</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>	
	Seed (qt.)	201		-
	Planting material produced (nos.)	354427		241
<b>6</b>	<b>Livestock</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>	
	Livestock strains ( Nos)	-		-
	Milk Yield - Cow, Buffelo etc. (in liter)	-		-
	Fish (Kg.)	-	-	
	Fingerlings (nos.)	-	-	
	Poultry-Eggs (nos.)	-	-	
	Ducks (nos.)	200	10	
	Chicks etc. (nos.)	798	100	

7	<b>Bio Products</b>		
	Bio Agents -Earth worm (Kg.)	-	-
	Trichoderma (kg.)	-	-
	Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)	698 kg	48
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)	-	-
8	<b>Any other significant achievement in the Zone</b>	<b>Nos.</b>	<b>Participants/ beneficiaries</b>
	Award (Best KVK award and scientist and farmer's award)	12	12
	Publications ( Res. Paper/ pop. Art./Bulletin,etc.)	10	5000
	KVK News letter	4	2000
	SAC Meetings conducted	1	25
	Soil sample tested	470	470
	Water sample tested	15	15
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)	-	-
	KVK-KMA (Message and beneficiaries)	168	60935
	Convergence programmes	-	-
	Sponsored programmes	-	-
	KVK Progressive Farmers interaction	6	600
	No. of Technology Week Celebrations	-	-
	Attended HRD activities organized by ZPD	3	3
	Attended HRD activities organized by DES	1	1
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc. )	1	1
9	Current status of Revolving Funds ( Amt. in Rs.)		148447
10		<b>No. of blocks</b>	<b>No. of villages</b>
	Outreach of KVK in the District	6	82
11		<b>ICAR</b>	<b>SAU</b>   <b>Others</b>
	No. of important visitors to KVK (nos.)	8	1   1
12		<b>Working (Yes/No)</b>	<b>No. of Update</b>
	Status of KVK Website	Yes	51
13		<b>Application received</b>	<b>Application disposed</b>
	Status of RTI (nos.)	-	-
14		<b>Query received</b>	<b>Query dissolved</b>
	Citizen Charter (nos.)	-	-
15		<b>Working (Yes/No)</b>	<b>No. of programme viewed</b>
	E-connectivity	No	-
16		<b>Filled</b>	<b>Vacant</b>
	Staff Position	15	1
17	Workshop/ Seminar/ Conference attended by staff of KVK ( nos)	8	
18	Publication received from ICAR /other organization (nos.)	15	
19		<b>Particulars</b>	<b>Organization</b>
	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 (31.03.2017)

### Summary of Staff position in KVKs on March, 2017

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	6	3	3	6	5	16	15

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Per./Temp.	Category
Dhenkanal	Sr. Scientist & Head	Dr. S. K. Mohapatra	Horticulture	Ph. D.	Horticulture	15,600-39,100	18580+8000	12.11.15	Temporary	Gen
Dhenkanal	Scientists	Smt. S. Pal	Home Science	M.Phil	Home Science	15,600-39,100	23950+6000	15.11.07	Temporary	Gen
Dhenkanal	Scientists	Sri D. S. Kar	Horticulture	MSc(Ag)	Horticulture	15,600-39,100	19040+6000	29.4.15	Temporary	Gen
Dhenkanal	Scientists	Sri D Panda	Entomology	M.Sc. (Ag.)	Entomology	15,600-39,100	23950+6000	06.04.11	Temporary	Gen
Dhenkanal	Scientists	Smt.D. Paramjita	Agril.Engg	MTech	Soil & Water Conservation Engg	15,600-39,100	19810+6000	07.12.12	Temporary	Gen
Dhenkanal	Scientists	Sri M.Mohanty	Forestry	MSc (Forestry)	Forestry	15,600-39,100	23950+6000	15.12.12	Temporary	Gen
Dhenkanal	Scientists	Dr. R. B. Nayak	Animal Science	MV Sc.	Animal Sci	15,600-39,100	16250+ 6000	7.7.2015	Temporary	Gen
Dhenkanal	Programme Assistant	Sri. Jashobanta Sahoo	fishery	M. F Sc.	Fishery	9300-34,800	14530+4200	04.10.09	Temporary	OBC
Dhenkanal	Farm Manager	Sri. Manoj Kumar Pradhan	Seed Technology	Msc(Ag)	Seed Technology	9300-34,800	13980+4200	03.07.12	Temporary	Gen
Dhenkanal	Computer Programmer	Sri. G. D. Moharana	Computer	MCA	Computer	9300-34,800	14530+4200	18.06.12	Temporary	Gen
Dhenkanal	Accountant / superintendent									
Dhenkanal	Stenographer	Sri G.R. Das	-	B.A.	-	5,200-20,200	7860+2400	08.01.07	Temporary	Gen
Dhenkanal	Driver	Sri D.K Pradhan	-	UP	-	5,200-20,200	6860+1900	24.07.07	Temporary	Gen
Dhenkanal	Driver	Sri N.M. Sahoo	-	UP	-	5,200-20,200	7400+1900	25.07.07	Temporary	Gen
Dhenkanal	Supporting staff	Smt. Ahalya Baral	-	UP	-	4440-7440	5820 + 1300	28.07.08	Temporary	Gen

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Per./Temp.	Category
Dhenkanal	Supporting staff	Sri Kumar Beja	-	UP	-	4440-7440	6260 + 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, dairy, 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)

<b>KVK Name</b>	<b>Problem identified</b>	<b>Methods of problem identification</b>	<b>Location Name of Village &amp; Block</b>
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	Harekrushapur & 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. Little 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 (OFT)

### 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 <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	T <sub>3</sub>	
Dhenkanal	2016	Kharif	Low production of papaya due to improper planting geometry, pest, disease & water management	Assessment of hybrid varieties of papaya in respect to climate change	Assessment	ICM	Papaya	Irrigated medium land	13	520	635	652	232000	298000	311600	Pusa nanha variety is recommended for the district as it is tolerant to heat stress (kala baisakhi)
Dhenkanal	2016	Kharif	Low yield due to cultivation of swarna anmol in open condition	Assessment of tomato hybrids under protected cultivation	Assessment	ICM	Tomato	Rainfed up land	13	280.9	578.2		180900	408000		Cultivation of swarna anmol under protected structure is more profitable but skill is to be learnt before raising the

																crop under the structure.
Dhenkanal	2016-17	Kharif	Low yield of paddy due to high infestation of paddy stem borer	Assessment of flubendiamide 20%wg against yellow stem borer in paddy	Assessment	IPM	Paddy	Rainfed medium	6	37.46	45.08		27250	42400		
Dhenkanal	2016-17	Kharif	Low yield of groundnut due to high infestation of spodoptera	Assessment of flubendiamide 39.5%sc for management of spodoptera in groundnut	Assessment	IPM	Groundnut	Rainfed medium	6	8.86	12.41		8600	18550		
Dhenkanal	2016-17	Kharif	Low yield of okra due to high infestation of okra leaf hopper	Assessment of clothionid in 0.5 g against okra leaf hopper	Assessment	IPM	Okra	Rainfed upland	6	176	203		125400	151200		
Dhenkanal	2016-17	Kharif	Primary collection less price by selling trees instead of seedling kernels (chiranjidana)	Assessment of chemical and physico mechanical method of processing of char seed	Assessment	Value addition	Char	Rainfed	4	Seed processed 4 kg/h	15 kg/ha		44	935		
Dhenkanal	2016-17	Kharif	Farmers get less return from	Assessment of rice based	Assessment	Crop production	Paddy, blackgram	Rainfed	7	56.3	80.4		37560	48510		

			menocopy (paddy)	paira cropping system in rice fallow												
Dhenkanal	2016	Kharif	High labour cost and time involved in manual transplanting	Assessment of self propelled 8-row rice transplanter	Assessment	Farm mechanization	Paddy	Rainfed upland	13	40.1	42.9		24117	32733		Self propelled 8-row rice transplanter is suitable for upland, medium land and low land situation. But in low land situation special attention is to be given for water management and mat nursery management
Dhenkanal	2016	Kharif	High cost and more time involved in puddling operation. Proper puddling is not achieved	Assessment of tractor drawn rotavator for puddling in paddy	Assessment	Farm mechanization	Paddy	Rainfed upland	10	41.3	42.4		28111	30728		Tractor operated rotavator is very much accepted by farming community but after operation of rotavator soil needs to be settling down before starting transplanting operation.
Dhenkanal	2016-17	Kharif	Suboptimal utilization of scavanged feed leading to	Assessment of multienzyme mixture on growth	Assessment	Livestock production management	Poultry	Semi intensive system	13	Rs.2250/10 birds	Rs.2700/10 birds	-	Rs.1362	Rs.1755	-	

			slow growth	of chickens												
Dhenkanal	2016-17	Kharif	Irregular egg laying practice	Assessment of calcium supplement for regular egg laying in backyard poultry	Assessment	Livestock production management	Poultry	Semi intensive system	13	Rs.650/10 hens	Rs.1150/10 hens	-	Rs.380/10 hens	Rs.740/10 hens	-	
Dhenkanal	2016	Kharif	Low yield and return	Assessment of multispecies stocking in composite pisciculture	Assessment	Production and management	Fish	Low land	04	15	24		90,000	150,000		
Dhenkanal	2016	Kharif	Low yield and return	Assessment of low cost locally available feed in composite pisciculture	Assessment	Production and management	Fish	Low land	04	14.3	26.5		84,800	172000		
Dhenkanal	2016-17	Rabi		Assessment of okra hybrids for ymv tolerant under rice-vegetables cropping system	Assessment	ICM	Okra	Rainfed up land	5	171.1	196.4		93100	114400		Okra variety shakti is ymv resistant and has got good market demand
Dhenkanal	2016-17	Rabi	Low yield marigold due to yield stagnation	Assessment of high yielding variety	Assessment	ICM	Marigold	Irrigated up land	13	124	138		173000	196000		Variety pusa narangi has got high market

			(94.5 q/ha) - 126ha	marigold pusa narangi												demand due to its compactness and better shelf life
	2016 -17	Rabi	Low yield of brinjal due to high infestation of brinjal shoot and fruit borer	Assessme nt of ipm module for controllin g shoot and fruit borer in brinjal.	Assessmen t	IPM	Brinjal	Rainfed upland	6	207.9	305.5		26250	60550		
Dhenka nal	201 6- 17	Rabi	No tangible benefits (sugar, fiber, etc) from 124,000 date plam & present in the district	Assessme nt of productio n potential of date palm and palmyra palm plant	Assessmen t	Value addition	Date palm	Rainfed	4	-	12 kg/pl (600 kg/ha)			4500		
Dhenka nal	201 6- 17	Rabi	High labour cost and more time involved in large area groundnut sowing	Assessme nt of power tiller operated 5-row seed cum fertilizer drill in sowing groundnut	Assessmen t	Farm mechaniza tion	Groundn ut	Rainfed medium land	8	17.4	18.7		32776	40328		Excellent land preparation is an essential requirement before operation of the seeddrill. Farmers are very much enthusiastic about powertiller operated seeddrill since powertiller is available everywhere and they are facing a major labour

																	crisis for sowing groundnut behind the bullock drawn plough
Dhenkanal	2017	Rabi	Low quality of milk production and improper nutrition of dairy cattle	Assessment of feeding bypass fat on quality of milk production	Assessment	Livestock production management	Dairy cow	Stall fed	13	Rs.9000 /animal / month	Rs.11250 /animal / month	-	Rs.4500 /animal / month	Rs.6580 /animal / month	-		
Dhenkanal	2017	Rabi	Unavailability of grazing land	Assessment of controlled feeding of concentrate and feed supplement on body weight gain of kids during lean season	Assessment	Livestock production management	Goat	Free ranging	13	Rs.3780/ pair of goats	Rs.4860/ pair of goats	-	Rs.3080/ pair of goats	Rs.4050/ pair of goats	-		

## 2.2 Economic Performance

KV K 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 <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )
Dhenkanal	Assessment of crop	No. of fruits/plant	50, 0.90kg	78, 1.85kg	184000	210000		416000	521600		232000	311600		2.26	2.48	

al	management in papaya with pest, disease and water management	, fruit wt														
Dhe nkan al	Assessment of Tomato hybrids under protected cultivation	Fruit weight(gm), Fruit size(cm)	58, 4.5	70, 5.5	9000 0	17000 0		280000	57820 0		180900	408000		2.0 1	2.4 0	
Dhe nkan al	Assessment of okra hybrids for YVMV tolerant under rice-vegetables cropping system	Fruit weight(gm), Fruit size(cm)	8, 7	13, 11.5	7860 0	82200		17100	19640 0		93100	114400		2.1 7	2.3 9	
Dhe nkan al	Assessment of high yielding variety marigold pusa narangi	Flowers/Plant, Flower Dia. cm	17.12, 3.14	28.25, 5.36	7500 0	80000		248000	27600		173000	196000		3.3 1	3.4 5	
Dhe nkan al	Assessment of flubendiamide 20%WG against yellow stem borer in paddy	Yield, %WEH, %DH	37.46, 9.36, 5.36	45.08, 1.23, 1.01	3800 0	41200		52818	63562		14818	22362		1.3 8	1.5 4	
Dhe nkan al	Assessment of flubendiamide 39.5%sc for management of spodoptera in groundnut	Yield, % Leaf damage	8.86, 8.07	12.41, 1.42	3570 0	43500		44300	62050		8600	18550		1.2 4	1.4 2	

Dhe nkan al	Assessment of clothionidin 0.5 G against okra leaf hopper	Yield, % Leaf damage	176, 18.7	203, 4.47	8580 0	92400		211200	24360 0		125400	151200		2.4 6	2.6 3	
Dhe nkan al	Assessment of IPM module for controlling shoot and fruit borer in brinjal.	Yield, % shoot damage, % fruit damage	207.9, 17.85,29.56	305.5, 4.75,6.76	7770 0	92200		103950	15275 0		26250	60550		1.3 3	1.6 5	
Dhe nkan al	Assessment of chemical and physico mechanical method of processing of char seed	Qty. of seed processed (kg/ha)	4	15	50	875		294	1810		44	935		1.2	2.0	
Dhe nkan al	Assessment of production potential of date palm and palmyra palm plant	Qty. of molasses produced (/pl, /ha)	-	12, 600	-	30500			36000			4500			1.2	
Dhe nkan al	Assessment of rice based paira cropping system in rice fallow	Qty. of grain produced q/ha	56.3	80.4	3000 0	48000		67560	96510		37560	48510		1.8	2.0	
Dhe nkan al	Assessment of self propelled 8-row Rice Transplanter	Labour requirement (MDs/ha), Cost of operation (Rs/ha)	38, 7600	3, 3100	3483 0	30330		58947	63063		24117	32733		1.6 9	2.0 7	
Dhe nkan	Assessment of tractor	Labour requirement	0.62, 3500	0.31, 2500	3260 0	31600		60711	62328		28111	30728		1.8 6	1.9 7	



al	drawn Rotavator for puddling in Paddy	t (MDs/ha), Cost of operation (Rs/ha)														
Dhe nkan al	Assessment of Power Tiller operated 5-row seed cum fertilizer drill in sowing Groundnut	Labour requirement (MDs/ha), Cost of operation (Rs/ha)	10, 4000	2, 1648	36824	34472		69600	74800		32776	40328		1.89	2.16	
Dhe nkan al	Assessment of Multienzyme mixture on growth of chickens	Body weight gain	1.5 kg/chicken	1.8 kg/chicken	Rs.888/10 birds	Rs.945/10 birds	-	Rs.2250/10 birds	Rs.2700/10 birds	-	Rs.1362	Rs.1755	-	2.53	2.85	-
Dhe nkan al	Assessment of Calcium supplement for regular egg laying in backyard poultry	No.of eggs per month/10 hens	130	175	Rs.270/month/10 hens	Rs.320/month/10 hens	-	Rs.650/month/10 hens	Rs.875/month/10 hens	-	Rs.380/month/10 hens	Rs.555/month/10 hens	-	2.40	2.73	-
Dhe nkan al	Assessment of feeding Bypass fat on quantity and quality of milk production	Milk quantity and quality(Fat and SNF)	10 lt/animal/day, Fat-4.0%, SNF-8.6%	12.5 lt/animal/day, Fat-4.4%, SNF-Remains almost same	Rs.4500/animal/month	Rs.4670/animal/month	-	Rs.9000/animal/month	Rs.11250/animal/month	-	Rs.4500/animal/month	Rs.6580/animal/month	-	2	2.40	-
Dhe nkan al	Assessment of controlled feeding of concentrate and feed supplement on body weight gain	Body weight gain	4.2kg	5.4kg	Rs.700/pair of goats	Rs.810/pair of goats	-	Rs.3780/pair of goats	Rs.4860/pair of goats	-	Rs.3080/pair of goats	Rs.4050/pair of goats	-	5.4	6	-

	of kids during lean season															
Dhenkanal	Assessment of multispecies stocking in composite pisciculture	AVG WT (gm), PH, Plankton density (ml)	600, 7.7, 1.4	700, 7.9, 2.5	60000	90000		150000	240000		90000	150000		2.51	2.75	
Dhenkanal	Assessment of low cost locally available feed in composite pisciculture	AVG WT (gm), PH, Plankton density (ml)	550, 7.8, 1.6	750, 8.1, 2.6	58200	93000		143000	265000		84800	172000		2.45	2.84	

### 2.3 Information about Home Science OFT: ( For All Thematic Area)

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	2016	kharif	Low yield of paddy straw mushroom during peak period of summer season	Assessment of management of paddy straw mushroom beds (Var.OSM-11) during summer season	Assessment	Income generation	Cultivation of OSM-11 using paddy straw as substrate (3layers) covering the floor with sand and wet gunny bag in the wall	Management of paddy straw mushroom var.OSM-11	Homestead /Backyard	13	OSM-11 is an alternative variety to the ruling variety
Dhenkanal	2016-17	rabi	More drudgery,time, Labour and cost in case of winnowing by bamboo winnower	Assessment of hand operated paddy winnower for drudgery reduction of farm women	Assessment	Drudgery reduction	Use of hand operated paddy winnower for cleaning grain after harvesting	Easy to operate,less drudgery,cost and time, With working capacity 120kg/hr	Rainfed medium land	13	This is a suitable women friendly implement. It is easy to operate without electricity
Dhenkanal	2016-	rabi	Heavy infestation	Assessment	Assessment	Storage loss	Sun drying of	Application of sand	Homestead	13	Farm women

	17		of storage pest reduces the weight and deteriorate the quality of pulses(greengram)s	of storage bin (plastic bin) for storing of pulses (greengram)		minimization technique	pulses for 24 hours in concrete floor followed by filling the pulses in plastic bin covering the top with 3cm. Sand layer with air tight cover	layer above the grain mass would fill the intergranular spaces in the top layers and, Prevent further infestation of grains	/Backyard		appreciated the technology for storing of pulses (greengram)
Dhenkanal	2016-17	rabi	Deterioration of mushroom quality and self life in sun drying	Assessment of low cost technology of drying of Oyster Mushroom	Assessment	Value addition	Soaking of mushroom for 6-7 hrs in preservatives (0.6 gm potassium metabi sulphide & 10 g citric acid/kg fresh mushroom diluted in one lit normal water) Dried under sunlight for 3 consecutive days	Improved colour, better flavor and increased storage life(12month)	Homestead /Backyard	13	Farm women appreciated the technology. Dried mushroom can be made to powder . Technology should be developed for preparation of mushroom powder which is nutritious and remunerative

#### 2.4 (A) Economic Performance Home Science OFT: (For Drudgery Reduction)

KVK name	OFT Title	Performance Indicator / Parameter													
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Cardiac Cost of Work		% Saving of cardiac Cost	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
Dhenkanal	Assessment of hand operated paddy winnower for	35	120	17.49	10.36	110	120	-	82.81	-	242	54.85	20	-	63

	drudgery reduction of farm women													
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#### 2.4 (B) Economic Performance Home Science OFT: (For Income Genration)

KVK name	OFT Title	Performance Indicator / Parameter											
		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		
Dhenkana 1	Assessment of management of paddy straw mushroom beds (Var.OSM-11) during summer season	8kg	T2=9.23kg, T3=12kg	Rs.505 per unit	T2=Rs.550perunit, T3=Rs.575per unit	Rs.840	T2=970, T3=1260	0.8kg/bed	T2=0.923kg/bed, T3=1.2kg/bed	Rs.335	T2=Rs.420, T3=Rs.685	T2=Rs.85, T3=Rs.265	T1=1.66, T2=1.76, T3=2.2
Dhenkana 1	Assessment of storage bin (plastic bin) for storing of pulses (greengram)	15kg from 20kg	19.5kg from 20kg	Rs.1230	Rs.1240	Rs1275	Rs.1735.5	15kg	19.5kg	Rs.45	Rs.495.5	Rs.450.5	T1=1.03, T2=1.4

#### 2.4 (C) Economic Performance Home Science OFT: (For value addition)

KVK name	OFT Title	Performance Indicator / Parameter													
		Composition of product		Input used		outcome (Kg)		Cost of input		Incremental income		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Dhenkana 1	Assessment of low cost technology of drying of Oyster Mushroom	Mushroom	Mushroom Citric acid KMS Zip lock polythene	10kg	10kg 38.46g, 38.46gm, 10nos.	85gm. from1kg	T2=93gm from 1kg, T3=98gm from 1kg	Rs.550	T2=Rs.555, T3=Rs.560	Rs.595	T2=Rs.697.5, T3=Rs.980	Rs.455	T2=Rs.142.5, T3=Rs.420	T2=Rs.97.5, T3=Rs.375	T1=1.08, T2=1.75

#### 2.4(D) Economic Performance Home Science OFT: (For Nutritional security)

KVK name	OFT Title	Performance Indicator / Parameter				Nutrient Intake (Unit)								Anthropometric measurements					
		Name of vegetable/Fruit/Product		Per capita Consumption gm/day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Increase in Weight (Kg)		Increase in Height (cm)		Increase in BMI (%)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
Dhenkanal																			

## 2.5 Feedback from KVK to Research System

Name of KVK	Feedback
Dhenkanal	Cultivation of Swarna Anmol under Protected structure is more profitable
Dhenkanal	Pusa nanha variety is recommended for the district as it is tolerant to heat strom ( Kala Baisakhi)
Dhenkanal	Okra Variety Shakti is YVMV resistant and has got good market demand.
Dhenkanal	Variety Pusa Narangi has got high market demand due to its compactness and better shelf life
Dhenkanal	Flubendiamide is very much effective for controlling Stem Borer in Paddy
Dhenkanal	Application of neem cake and spraying of clothianidin at vegetative stage check okra leaf hopper attack
Dhenkanal	Flubendiamide is better than other two insecticides and was appreciated by the farming community for controlling spodoptera in groundnut.
Dhenkanal	IPM module for controlling Brinjal Shoot and Fruit Borer is very much recommended for the district
Dhenkanal	Primary collectors will get 5 times benefit by selling of chironjidana instead of selling char seed
Dhenkanal	More than 10000 farmers having about one lakh palm will be benefitted if palms are tapped for sugar extraction
Dhenkanal	Blackgram should be raised after ploughing upland and as paira in medium land
Dhenkanal	Self propelled 8-row Rice Transplanter is suitable for upland, medium land and low land situation. But in low land situation special attention is to be given for water management and MAT nursery management
Dhenkanal	Excellent land preparation is an essential requirement before operation of the seeddrill. Farmers are very much enthusiastic about powertiller operated seeddrill since powertiller is available everywhere and they are facing a major labour crisis for sowing Groundnut behind the bullock drawn plough.
Dhenkanal	Tractor operated Rotavator is very much accepted by farming community but after operation of rotavator soil needs to be settle down before starting transplanting operation.
Dhenkanal	OSM-II is an alternative variety to the ruling variety <i>V.volvacea</i>
Dhenkanal	Farm women appreciated the technology for storing of pulses (greengram)
Dhenkanal	This is a suitable women friendly implement. It is easy to operate without electricity.
Dhenkanal	Farm women appreciated the technology. Dried mushroom can be made to powder. Technology should be developed for preparation of mushroom powder which is nutritious and remunerative.
Dhenkanal	Multienzyme mixture helps in proper digestion and utilisation of nutrients present in concentrate feed so it can be mixed with other feed supplements in order to get optimum growth
Dhenkanal	Calcium should be supplemented @2.25% of daily feed intake throughout the laying period
Dhenkanal	With the use of bypass fat both milk quantity and fat % increases but SNF% does not show much fluctuation
Dhenkanal	Deworming should be done along with concentrate feeding and feed supplement for optimum growth

### 3. Achievements of Frontline Demonstrations (FLD)

#### 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	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 Azospirillum & PSB Bacillus thuriengensis +Trichoderma viridae @ 10 Kg each / ha.	05	08	03
Dhenkanal	Mango	Value addition	Preparation of mango split by pit method	Running a project on it, funded by ICAR, Newsletter message, Continuation of DLD, Demo etc	30	50	50 pits
Dhenkanal	Bamboo	Crop production	Macro propagation	Newletter, Demo, Group discussion	45	60	48
Dhenkanal	Enterprise	Income generation	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	Drudgery reduction	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

### 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 <sub>1</sub> )	RP (T <sub>2</sub> )		SCST	Others	General	Total	
Dhenkanal	2016-17	Kharif	ICM	Demonstration of kharif onion varieties	Onion	Bhima super	0.4	206	237	15.04				5	5
Dhenkanal	2016-17	Kharif	ICM	Demonstration of turmeric variety Roma as inter crop in mango orchard	Turmeric	ROMA	0.4	138	152	10.14				5	5
Dhenkanal	2016-17	Kharif	IPM	Application of IPM practices for controlling pod borer in pigeonpea.	Pigeonpea	Asha	1.0	11.01	14.86	34.96	-	-	-	10	10
Dhenkanal	2016-17	Kharif	ICM	Use of Variety Devi with seed rate 60Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Groundnut	Devi	30	12.0	15.4	28.33	1	10			75
Dhenkanal	2016-17	Kharif	ICM	Use of Variety amrit with seed rate 4Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Sesamum	Amrit	30	3.5	5.8	65.71	-	50	-	25	75
Dhenkanal	2016-17	Kharif	ICM	Use of Variety asha with seed rate 8Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Arhar	Asha	30	8.8	13.3	51.13	38	16	-	21	75

Dhenkanal	2016	Kharif	Farm Mechanization	A cycle wheel attached with shovel type tyne, push pull action for intercultural operations in Groundnut	Groundnut	Wheel Cycle Weeder	Groundnut-0.4	13.8	14.4	4.34	3	2	3	2	10
Dhenkanal	2016	Kharif	Farm Mechanization	Paddy power weeder consists of 0.5 hp engine having field capacity 0.33 ac/hr with cutting width 15-30 cm and Weeding will be done at 15, 30 and 45 DAT by Power paddy weeder	Paddy	Paddy Power Weeder	Paddy-0.4	43.2	44.1	2.08			10		10
Dhenkanal	2016-17	Kharif	LPM	Demonstration of rearing of dual purpose backyard poultry in semi intensive system	Poultry(Chicken)	Pallishree	200 nos.	600g/3 months of age	2kg/3 months of age	233	1	5	4		10
Dhenkanal	2016-17	Kharif	LPM	Demonstration on rearing of Khaki Campbell ducks for egg laying	Duck	Khaki Campbell	200 nos.	1 kg/3 months of age	1.5kg/3 months of age	50	1	5	4		10
Dhenkanal	2016	kharif	Production and management	Performance of floating feed in composite pisciculture	fish	IMC (Catla ,Rohu ,Mrigal )	2.0 ,/04	23.35	32.56	39.44			04		04
Dhenkanal	2016	kharif	Production and management	Performance of multiplex in mixed carp culture	fish	IMC (Catla ,Rohu ,Mrigal )	2.0/04	22.5	26.8	19.11		01	03		04
Dhenkanal	2016	kharif	Production and management	Performnce of Jayanti rohu in mixed carp culture	fish	IMC (Catla ,Rohu ,Mrigal )	2.0/04	21.8	27.1	24.31		01	03		04
Dhenkanal	2016-17	Kharif	Value addition	Preparation of mango split by pit method	Mango	Pit method	4	30 kg/ 100 kg	32 kg/ 100 kg	7	1	1	2	-	4



Dhenkanal	2016-17	Rabi	ICM	Demonstration on cultivation of brinjal under protected structure	Brinjal	Swarna Shyamali	0.4	232.4	384.9	52.71			2	3	5
Dhenkanal	2016-17	Rabi	ICM	Demonstration on tissue culture Banana cv AMRITPANI	Banana	AMRITPANI	0.4	continue	continue	continue	4			1	5
Dhenkanal	2016-17	Rabi	IPM	Application of thiomethoxam @5 g / 15 l of water to control mealy bug in papaya	Papaya	Pusa Nanha	1.0	388.4	494.3	27.26	-	-	-	10	10
Dhenkanal	2016-17	Rabi	IDM	Application of IDM practices (carbendazim + mancozeb @ 2 gm/liter of water & plantomycin @1 gm / liter water for controlling purple blotch disease in onion.	Onion	Bhima Super	1.0	180.9	226.9	25.42	-	-	10	-	10
Dhenkanal	2016-17	Rabi	IDM	Application of carbendazim + mancozeb @ 2 gm/liter of water for controlling downey mildew in cucumber.	Cucumber	Nandini	1.0	229	283	23.58	-	-	5	5	10
Dhenkanal	2016-17	Rabi	ICM	Use of Variety Devi with seed rate 60Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Groundnut	Devi	30	16.89	22.3	32.05	3	-			75
Dhenkanal	2016-17	Rabi	ICM	Use of Variety PU-35 with seed rate 8Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Blackgram	PU-35	40	5,1	7.9	54.90	13	-			100

Dhenkanal	2016-17	Rabi	ICM	Use of Variety mahyco bold with seed rate 2Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Mustard	Mahyco bold	30	3.8	6.4	68.42	-	8			75
Dhenkanal	2016-17	Rabi	Farm Mechanization	Use of Bullock drawn groundnut digger having field capacity 0.02 ha/h	Groundnut	Bullock drawn Groundnut Digger	Groundnut-0.4	17.8	17.8	-			10		10
Dhenkanal	2016-17	Rabi	Farm Mechanization	Demonstration of 5-row bullock drawn seed cum fertilizer drill sowing Blackgram seeds at a spacing of 20 cm and working capacity of 0.16ha/h vertical cup feed metering mechanism	Blackgram	Bullock drawn 5-row Seed cum Fertilizer drill	Blackgram-0.4	4.8	5.2	8.33	7		1		8
Dhenkanal	2017	Rabi	LPM	Demonstration of liquid Calcium supplement on performance of lactating cattle	Dairy cattle	Dairy cattle	10nos.	8lt /animal/day	9.8 lt /animal/day	22.5	1	-	9		10
Dhenkana	2017	Rabi	LPM	Demonstration of deworming drugs on performance of goats	Goat	Local goat	100 nos.	3.8kg/3 months of age	4.6 kg/3 months of age	21.05	-	6	4		10
Dhenkanal	2016-17	Summer	ICM	Use of Variety kalika with seed rate 4Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Sesamum	Kalika	50	4.3	6.8	58.13					125

### 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 <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )
Dhenkana 1	Demonstration on IPM and post harvest management in kharif onion varieties	Onion	Bulb weight, Bulb size	45 gm, maximum diameter of bulb (4.12 cm),	68gm, Maximum diameter of bulb (6.61 cm),	75000	85000	206000	237000	131000	152000	2.75	2.79
Dhenkana 1	Demonstration of turmeric variety Rasmi as intercrop in mango orchard	Turmeric				108200	115000	276000	304000	167800	189000	2.55	2.64
Dhenkana 1	Demonstration on cultivation of brinjal under protected condition	Brinjal	No of fruit/plant			77000	120000	185920	307920	108920	187920	2.41	2.56
Dhenkana 1	Demonstration on tissue culture Banana cv AMRITPANI	Banana	Continue	Continue	Continue	Continue	Continue	Continue	Continue	Continue	Continue	Continue	Continue
Dhenkana 1	Application of IPM practices for controlling pod borer in pigeonpea.	Pigeonpea		13	5	18400	21200	25400	33160	7000	11960	1.3	1.6

Dhenkana 1	Application of thiomethoxam @5 g / 15 l of water to control mealy bug in papaya	Papaya		25.3	16.5	29200	32200	49192	58201	19992	26001	1.68	1.80
Dhenkana 1	Application of IDM practices (carbendazim + mancozeb @ 2 gm/liter of water & plantomycin @1 gm / liter water for controlling purple blotch disease in onion.	Onion	% disease incidence	9.6 7.8	3.9 2.7	29200	33200	48841	58916	19641	25715	1.67	1.77
Dhenkana 1	Application of carbendazim + mancozeb @ 2 gm/liter of water for controlling downey mildew in cucumber.	Cucumber	% disease incidence	33	14	29400	32800	80820	104340	51420	71540	2.7	3.18
Dhenkana 1	Use of Variety Devi with seed rate 60Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Groundnut	Yield	12	15.4	35000	40100	60000	77000	25000	36900	1.7	1.9
Dhenkana 1	Use of Variety Devi with seed rate 60Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Groundnut	Yield	16.89	22.3	44000	50700	67200	89200	23200	38500	1.52	1.75

Dhenkana 1	Use of Variety kalika with seed rate 4Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Sesamum	Yield	3.7	5.8	19000	20800	21000	34800	2000	14000	1.1	1.67
Dhenkana 1	Use of Variety asha with seed rate 8Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Arhar	Yield	8.8	13.3	28500	33200	44000	66500	15500	33300	1.54	2.0
Dhenkana 1	Use of Variety PU- 35 with seed rate 8Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Blackgram	Yield	5.1	7.9	24000	29500	35700	55300	11700	25800	1.48	1.87
Dhenkana 1	Use of Variety mahyco bold with seed rate 2Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Mustard	Yield	3.8	6.4	13000	14700	16000	32000	3000	17300	1.23	2.17
Dhenkana 1	Use of Variety amrit with seed rate 4Kg/acre and fertilizer dose of N:P:K:: 20:40:40	Sesamum	Yield	3.7	6.8	18000	21800	22400	47600	4400	25800	1.24	2.18
Dhenkana 1	Preparation of mango split by pit method	Mango	Mango kg/kg	30	32	1675	1390	1200	1920	-475	530	0.07	1.4

Dhenkana 1	A cycle wheel attached with shovel type tyne, push pull action for intercultural operations in Groundnut	Groundnut	Labour requirement (MDs/ha), Cost of operation (Rs/ha)	15, 3000	3.125, 1375	32300	30675	62100	64800	29800	34125	1.92	2.11
Dhenkana 1	Paddy power weeder consists of 0.5 hp engine having field capacity 0.33 ac/hr with cutting width 15-30 cm and Weeding will be done at 15, 30 and 45 DAT by Power paddy weeder	Paddy	Labour requirement (MDs/ha), Cost of operation (Rs/ha)	11.36, 2272	1.25, 1300	32660	31688	63504	64827	30844	33139	1.94	2.04
Dhenkana 1	Use of Bullock drawn groundnut digger having field capacity 0.02 ha/h	Groundnut	Labour requirement (MDs/ha), Cost of operation (Rs/ha)	42, 6300	22, 3300	37369	34369	71200	71200	33831	36831	1.90	2.07
Dhenkana 1	Demonstration of 5-row bullock drawn seed cum fertilizer drill sowing Blackgram seeds at a spacing of 20 cm and working capacity of 0.16ha/h vertical cup feed metering mechanism	Blackgram	Labour requirement (MDs/ha), Cost of operation (Rs/ha)	05, 500	02, 1060	20725	21285	38400	41600	17675	20315	1.85	1.95

Dhenkana 1	Demonstration of rearing of dual purpose backyard poultry in semi intensive system	Poultry(chicken )	Body weight gain(kg)	600g	2 kg	Rs.1500/20 birds	Rs.3500/20 birds	Rs.2640	Rs.7000	Rs.1140	Rs.3500	1.76	2
Dhenkana 1	Demonstration on rearing of Khaki Campbell ducks for egg laying	Duck	Body weight gain(kg)	1 kg	1.5 kg	Rs.1350/12 ducklings	Rs.1350/12 ducklings	Rs.1800/3 month	Rs.2700/3 month	Rs.450	Rs.1350	1.33	2
Dhenkana 1	Demonstration of liquid Calcium supplement on performance of lactating cattle	Lactating cattle	Milk yield(lt)	8 lt	9.8 lt	Rs.3750 / month	Rs.3940/ month	Rs.7200/ month	Rs.8820/ month	Rs.3450/ month	Rs.4880/ month	1.92	2.39
Dhenkana 1	Demonstration of deworming drugs on performance of goats	Goat	Body weight gain(kg)	3.8 kg/3 months	4.6 kg/3 months	Rs.2400/10 goats /2 months	Rs.2500/10 goats /2 months	Rs.17100	Rs.20700	Rs.14700	Rs.18200	7.12	8.28
Dhenkana 1	Performance of floating feed in composite pisciculture	Fish	FCR	2.24	1.23	150790	180400	233,500	325600	82710	145200	1.54	1.80
Dhenkana 1	Performance of multiplex in mixed carp culture	Fish	Avg wt (gm), Plankton density (ml), PH	500, 1.2, 7.8	800, 2.5, 7.9	115800	132100	225000	26800	109200	135900	1.94	2.02
Dhenkana 1	Performnce of Jayanti rohu in mixed carp culture	Fish	Avg wt (gm), Plankton density (ml), PH	520, 1.3, 7.7	600, 1.9, 7.9	120100	139200	218000	271000	97900	131800	1.81	1.94

### 3.4 Information about Home Science FLDs - (For All Thematic Area)

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/Enterprises	Farming Situation	Proposed area (ha)	No. of Beneficiaries
Dhenkanal	2016	Kharif	Nutritional support	Non availability of green fodder and excess cost of commercial feed	Multiplication of Azolla (Variety - <i>Azolla caroliniana</i> ) in low cost tank /pit of size 2mX1.5mX20cm and feeding 1-1.5kg Azolla per cow per day	Azolla	<i>Azolla cultivation</i>	Homestead	10	10
Dhenkanal	2016	Kharif	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	Sugarcane	Sugarcane budchipper	Rainfed medium land	10	10
Dhenkanal	2016-17	Rabi	Income generation	Low yield of P.Sajacaju in extreme cold climatic condition	Colour of mushroom is bluish grey during initiation of fruiting latter it changes to white in our climate. Average fruit body weight- 31gm,Biological efficiency-103%,Texture of fruit-Fleshy	Mushroom	<i>Hypsizygos ulmarius</i>	Homestead/backyard	200 bags	10
Dhenkanal	2016-17	Rabi	Value addition	Non availability of processed stone apple products in off season	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 % KMS)	Stone apple	RTS from stone apple	Homestead	500 bottles	10

### 3.5 (A) Economic Performance Home Science FLD: (For Drudgery Reduction)

OFT Title	Performance Indicator / Parameter
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KVK name		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Cardiac Cost of Work		% Saving of cardiac Cost	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
Dhenkanal	Demonstration on sugarcane bud chipper for Drudgery reduction of farm women	158 sets/hour	280buds/hr	10.04	10.996	118	124		38.32		77.21	12.91	8.14		36.94

### 3.5 (B) Economic Performance Home Science FLD: (For Income Genration)

KVK name	OFT Title	Performance Indicator / Parameter											
		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		
Dhenkanal	Demonstration of Oyster mushroom variety Hypsizygous ulmarius	32kg / 20bags	44kg / 20bags	41	41	Rs.80 /bag	Rs.110 /bag	1.6 kg/bag	2.2 kg/bag	Rs.39 /bag	Rs.69/ bag	30	FP-1.95 RP-2.68
Dhenkanal	Demonstration on Azolla as supplementary feed for milching cow	105 lt/10 cow/day	130 lt/10 cow/day	1160	935	3150	3900	10.5 lt/cow/day	13 lt/cow/day	1990	3806.5	2871.5	FP-1.7 RP-3.07

### 3.5 (C) Economic Performance Home Science FLD: (For value addition)

KVK name	OFT Title	Performance Indicator / Parameter													
		Composition of product		Input used		outcome (Kg)		Cost of input		Incremental income		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Dhenkanal	Demonstration on Preparation of RTS from stone Apple	Bael Sugar Water	Bael Sugar Water KMS, Citric Acid	25kg 13.5kg 80 lt	25 kg 20 kg 80 lt 100g 150g	100lit/25kg of ripe stone apple	500 bottle(200ml)per25kg of stone apple	1050	3380	1500	7500	450	4120	3670	FP-1.4 RP-2.2

### 3.5 (D) Economic Performance Home Science FLD: (For Nutritional security)

KVK name	OFT Title	Performance Indicator / Parameter				Nutrient Intake (Unit)								Anthropometric measurements					
		Name of vegetable/Fruit/Product		Per capita Consumption gm/day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Increase in Weight (Kg)		Increase in Height (cm)		Increase in BMI (%)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

### 3.6 Training and Extension activities proposed under FLD

KVK Name	Crop	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 triconanol hormone in Bittergourd to induce fruit.
Dhenkanal	Sugarcane Bud Chipper	Training, Method Demonstrations,	5	100	Farmers were convinced about the operation of bud chipper.
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	Peanut Butter	Training, Method demonstration	4	30	Farm women were very interested to take up this peanut butter making to commercial level.
Dhenkanal	Mango	Training	1	10	Vocational
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.

### 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	Eucalypt	E.hybrid (ECXEt)	Mysore	15	480
2	Dhenkanal	Okra	Shakti	Private Firm	5	0.4

## 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	Demonstration of kharif onion varieties	Cultivation of onion improved variety Bhima super	Bhima super variety has got good market demand and good keeping quality	Farmers in district level interested for kharif onion and good keeping quality
Dhenkanal	Preparation of mango split by pit method	Physical interview, query from farmers of neighboring village	Mango fruit of any type especially, sour fibrous local varieties are used fully, no waste of mango, salvage return from kalabaisakh dropper grafted varieties, long shelf life, good return to farmers, Employment generation.	All local mango fruit will be processed either to mango split or amchur, about 3000 ton local mango will be utilized in future
Dhenkanal	Improper plant population and high labour requirement in sowing of Groundnut seeds	Use of Bullock or Power Tiller operated seed drill 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	Low yield and high incidence of disease, pest due to improper plant population	Use of Bullock drawn 5-row seed cum fertilizer drill for sowing Blackgram	Increase in yield and reduction in seed rate	Farmers are satisfied with the technology but good field preparation with no straw in the field is essential for operation of bullock drawn 5-row seed cum fertilizer
Dhenkanal	It is a substitute to the low yielding desi birds both in terms of meat and egg	Rearing of dual purpose colour, broiler pallishree	Body wt increase by 1.4 kg/ bird and 40 eggs /bird / year	Farmers are convinced to keep pallishree specially for meat purpose
Dhenkanal	Solution to the high cost concentrate feed	Feeding of azolla to decrease the feed cost and increase the milk yield	The milk yield increases around 2.5 lit / cow / day	Farmers are interested to develop azolla unit in backyard which is a substitute of fodder round the year

#### 4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
Dhenkanal	Cultivation of Swarna Anmol under Protected structure is more profitable
Dhenkanal	Pusa nanha variety is recommended for the district as it is tolerant to heat strom ( Kala Baisakhi)
Dhenkanal	Okra Variety Shakti is YVMV resistant and has got good market demand.
Dhenkanal	Variety Pusa Narangi has got high market demand due to its compactness and better shelf life
Dhenkanal	Flubendiamide is very much effective for controlling Stem Borer in Paddy
Dhenkanal	Application of neem cake and spraying of clothianidin at vegetative stage check okra leaf hopper attack
Dhenkanal	Fluebendiamide is better than other two insecticides and was appreciated by the farming community for controlling spodoptera in groundnut.
Dhenkanal	IPM module for controlling Brinjal Shoot and Fruit Borer is very much recommended for the district
Dhenkanal	Primary collectors will get 5 times benefit by selling of chironjidana instead of selling char seed
Dhenkanal	More than 10000 farmers having about one lakh palm will be benefitted if palms are tapped for sugar extraction

Dhenkanal	Blackgram should be raised after ploughing upland and as paira in medium land
Dhenkanal	Self propelled 8-row Rice Transplanter is suitable for upland, medium land and low land situation. But in low land situation special attention is to be given for water management and MAT nursery management
Dhenkanal	Excellent land preparation is an essential requirement before operation of the seeddrill. Farmers are very much enthusiastic about powertiller operated seeddrill since powertiller is available everywhere and they are facing a major labour crisis for sowing Groundnut behind the bullock drawn plough.
Dhenkanal	Tractor operated Rotavator is very much accepted by farming community but after operation of rotavator soil needs to be settle down before starting transplanting operation.
Dhenkanal	OSM-II is an alternative variety to the ruling variety <i>V.volvacea</i>
Dhenkanal	Farm women appreciated the technology for storing of pulses (greengram)
Dhenkanal	This is a suitable women friendly implement. It is easy to operate without electricity.
Dhenkanal	Farm women appreciated the technology. Dried mushroom can be made to powder . Technology should be developed for preparation of mushroom powder which is nutritious and remunerative.
Dhenkanal	Multienzyme mixture helps in proper digestion and utilisation of nutrients present in concentrate feed so it can be mixed with other feed supplements in order to get optimum growth
Dhenkanal	Calcium should be supplemented @2.25% of daily feed intake throughout the laying period
Dhenkanal	With the use of bypass fat both milk quantity and fat % increases but SNF% does not show much fluctuation
Dhenkanal	Deworming should be done along with concentrate feeding and feed supplement for optimum growth

#### 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	26.05.16, Badrapalli	35
Dhenkanal	FW	Group meeting, Method demonstration	7.6.16, 10.6.16 , Harekrushnapur	30
Dhenkanal	FW	visit to farmers' field	30.07.16, Badanagena	15
Dhenkanal	FW	Group Meeting	7.9.16, Sankhua	30

Abbreviation Used

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

## 5. TRAINING PROGRAMMES

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

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

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants								
							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	HOF	Selection & treatment of banana suckers before banana cultivation	1	1		1						24	
Dhenkanal	FW	OFC	HOF	Fertilizer management of young mango orchards	1	1								5	20
Dhenkanal	FW	OFC	HOF	Fertilizer management in banana plantations	1	1								24	1
Dhenkanal	FW	OFC	HOV	Integrated nutrient management in brinjal	1	1								12	13
Dhenkanal	FW	ONC	HOO	Propagation technique of rose plants	1	1								15	10
Dhenkanal	FW	OFC	HOV	Fertilizer management in chilli	1	1								4	21
Dhenkanal	FW	OFC	HOV	Weed management in Vegetable	1	1								7	8
Dhenkanal	FW	OFC	PLP	Management of blast, sheath blight & BLB disease in Paddy	1	1	25								
Dhenkanal	FW	OFC	PLP	Technology for treatment of seed & Seedlings for control of diseases	1	1			8					17	
Dhenkanal	FW	OFC	PLP	Integrated Pest & Disease Management in mango	1	1					25				
Dhenkanal	FW	OFC	PLP	Identification and management of different pest and disease in groundnut	1	1			19	6					
Dhenkanal	FW	ONC	PLP	Integrated pest & disease management in Arhar	1	1		25							
Dhenkanal	FW	OFC	PLP	Identification and management of different pest and disease in sesamum	1	1	25								

Name of KVK	Category	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	Important pest and disease of solanaceous crops, their identification and management practice	1	1	20	5						
Dhenkanal	FW	OFC	AEG	Use of farm implements in Direct seeded Paddy cultivation	1	1			4				21	
Dhenkanal	FW	OFC	AEG	Working mechanism of Self Propelled Rice Transplanter	1	1			2				23	
Dhenkanal	FW	OFC	AEG	Performance of Wheel Cycle Weeder for intercultural operations in Groundnut	1	1			9				16	
Dhenkanal	FW	OFC	AEG	Operation & maintenance of Paddy Power Weeder	1	1					3		22	
Dhenkanal	FW	ONC	AEG	Land preparation and calibration of Powertiller operated Seeddrill	1	1			1				17	7
Dhenkanal	FW	OFC	AEG	Use of Bullock drawn seed cum fertilizer drill in sowing pulses	1	1					20	5		
Dhenkanal	FW	OFC	AEG	Role of mulching in water conservation in horticultural crops	1	1			1		9		14	1
Dhenkanal	FW	OFC	AEG	Use of Bullock drawn Groundnut Digger for harvesting of Groundnut	1	1			7				18	
Dhenkanal	FW	OFC	AEG	Micro Irrigation in Vegetable crops	1	1			1	1			14	9
Dhenkanal	FW	OFC	AEG	Operation, maintenance and safety precautions to be taken in using a Tractor	1	1			3	1	1		14	6
Dhenkanal	FW	OFC	WOE	Role of SHGs for strengthening farm family nutrition security	1	1	-	-	-	3	-	-	-	22
Dhenkanal	FW	OFC	WOE	Azolla cultivation in backyard in mulching cow	1	1	-	-	-	-	-	-	-	25
Dhenkanal	FW	OFC	WOE	Scientific practices of	1	1	-	-	-	2	-	19	-	4

Name of KVK	Category	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
				paddy straw mushroom cultivation during peak period of summer										
Dhenkanal	FW	OFC	WOE	Safe storage of food grains	1	1	-	-	-	-	-	4	-	21
Dhenkanal	FW	OFC	WOE	Value addition of stone apple	1	1	-	-	-	10	-	-	-	15
Dhenkanal	FW	OFC	WOE	Women friendly tools and implements for drudgery reduction of farm women	1	1	-	-	-	7	-	17	-	1
Dhenkanal	FW	OFC	WOE	Different strains of mushroom and their preservation	1	1	-	-	-	4	-	-	-	21
Dhenkanal	FW	OFC	WOE	Best practices for preservation of traditional variety of seeds	1	1	-	-	-	-	-	25	-	-
Dhenkanal	FW	OFC	LPM	Care and management of calves	1	1	4		1				20	
Dhenkanal	FW	OFC	LPM	Feeding of feed supplement in goats	1	1			19	4	2			
Dhenkanal	FW	OFC	LPM	Duck farming as a livelihood in rural areas	1	1	1						5	19
Dhenkanal	FW	OFC	LPM	Importance of multienzyme mixture on growth of chickens	1	1	1		2	1			16	5
Dhenkanal	FW	OFC	LPM	Importance of deworming in goats	1	1	1	1	1		2	1	10	9
Dhenkanal	FW	OFC	LPM	Preventive diseases of domestic animals	1	1				2				23
Dhenkanal	FW	OFC	LPM	Importance of feeding of calcium in layers during egg laying stage	1	1	1	1	1				15	7
Dhenkanal	FW	OFC	LPM	Ethno Veterinary practices in Veterinary Science	1	1				15		7		3
Dhenkanal	FW	OFC	FIS	Prestocking pond management practice	1	1	19	3	3					
Dhenkanal	FW	OFC	FIS	Identification of different cultivable fishes & stocking procedure	1	1	25							
Dhenkanal	FW	OFC	FIS	Water quality management	1	1					25			



Name of KVK	Category	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
				of stocking pond										
Dhenkanal	FW	OFC	FIS	Post stocking management of Pisciculture Tank	1	1	16	9						
Dhenkanal	FW	OFC	FIS	Feed management for carp culture	1	1	11	14						
Dhenkanal	FW	OFC	FIS	Use of low cost farm made feed for fish	1	1	25							
Dhenkanal	FW	OFC	FIS	Management of pond in winter season	1	1	25							
Dhenkanal	FW	OFC	AGF	Agro forestry system for upland fallow management	1	1								
Dhenkanal	FW	OFC	AGF	Pros and cons of eucalypt cultivation	1	1								
Dhenkanal	FW	ONC	AGF	Fodder values of different trees, shrubs, grasses	1	1								
Dhenkanal	FW	OFC	AGF	Importance of char plant	1	1								
Dhenkanal	FW	ONC	AGF	Value addition of cashew nut thalamus	1	1								
Dhenkanal	IS	ONC	HOO	Rose planting material production technique in shed net house	1	1							1	14
Dhenkanal	IS	ONC	PLP	Impact of climate change on different insect pest of major field crops	1	1	14	1						
Dhenkanal	IS	ONC	PLP	Use of different newer molecules in pest and disease management	1	1	14	1						
Dhenkanal	IS	OFC	AEG	Recent Agricultural Engineering Technologies	1	1							12	4
Dhenkanal	IS	ONC	WOE	Occupational safety and drudgery reduction of farm women	1	1	-	-	-	1	-	1	-	13
Dhenkanal	IS	ONC	LPM	Importance of postmortem findings for better livestock farming	1	1	2						8	
Dhenkanal	IS	ONC	FIS	Use of low cost farm made feed for fish	1	1	8	4	3					
Dhenkanal	RY	ONC	HOV	Seed production and seed extraction techniques in	1	1				1			14	-

Name of KVK	Category	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
				tomato										
Dhenkanal	RY	ONC	PLP	Use of different type of bio agents and botanical for different insect pest	1	1	13		2					
Dhenkanal	RY	ONC	AEG	Cost economics of Agro Service Centre Model	1	1							15	
Dhenkanal	RY	ONC	AEG	Micro Irrigation system and Protected Cultivation	1	1			2		1		11	1
Dhenkanal	RY	ONC	WOE	Women farmer as women entrepreneur	1	1	-	-	-	14	-	-	-	1
Dhenkanal	RY	ONC	WOE	SHG led promotion of nutrition garden in village school, way forward to strengthen mid day meal scheme for school children	1	1	-	-	-	-	-	-	-	15
Dhenkanal	RY	ONC	FIS	Culture technique of yearling	1	1	15							
Dhenkanal	RY	ONC	FIS	Culture technique of fingerlings	1	1	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	Commercial mushroom cultivation	Mushroom	Income generation activity	3		10							
Dhenkanal	Preparation of ice cream, mango split, leather, amchur etc. from mango	Mango	Value addition	3		1		1				8	

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 elsewhere
		Type of units	Number of units	Number of persons employed	
Dhenkanal					

**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)	Duration (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	Training programme for Panipanchayat members	Water management		FW	4	15	30								WALMI, Cuttack	91,000

**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)	Duration (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	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	55, 2. 140, 3. 142.85, 7.38, 27.56
Dhenkanal	Operation and maintenance of Paddy Power Weeder	25	56	96	43.2	44.1	30844	33139	1.60,2. 220, 3. 71.42, 2.08, 7.44
Dhenkanal	Performance of wheel cycle weeder for intercultural operations in Groundnut	25	20	92	13.8	14.4	29800	34125	1.120, 2. 180, 3. 72, 4.34, 14.51
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 Bullock drawn Groundnut Digger for harvesting of Groundnut	25	36	82	-	-	33831	36831	1. 60,2. 40, 3. 46, 8.86
Dhenkanal	Working mechanism of self propelled Rice Transplanter	10	24	78	44.1	48.9	25600	32687	40, 2. 200, 3. 54, 10.88, 27.68

## 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	12	310	90	85	45	40	30	Popularization and dissemination of improve cultivation of crops and principle of operation of enterprise	Improved cultivation of crops	Early maturity stage
Dhenkanal	Kisan Mela	2	2	295	60	80	25	15	5			
Dhenkanal	Kisan Ghosthi	4	2	35	12	14	7	8	4	Popularization and dissemination of technology	Improved cultivation of Kharif crops	Kharif crop season
Dhenkanal	Exhibition	4	8									
Dhenkanal	Film Show	20	11	456	56	80	25	22	11	Popularization and improved technology	10 film CDs	Kharif crop season
Dhenkanal	Method Demonstrations	5	5	72	21	32	1	11	4	Popularization and improved technology	Improved cultivation of Kharif crops	Kharif 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	25	255	45	80	60	8	2	Problem analysis	-	Kharif crop season
Dhenkanal	Lectures delivered as resource persons	40	22							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 bhara mission,	

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			
											micro irrigation in watermelon	
Dhenkanal	Radio talks	10	7							Popularization of technology	Hitch Horticulture, animal nutrition, fish farming, IPM	
Dhenkanal	TV talks	10	5							Awareness of farming community	Value addition, hitech horticulture, Farm mechanization	
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	1814	1604	97	88	25			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						
Dhenkanal	Soil health Camp	1	1	210	20	18	2					
Dhenkanal	Animal Health Camp	1	1	78	9	8	5					
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		

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			
										activities		
Dhenkanal	Celebration of important days (World environment day)	2	2	84	96		20	4		World Food Day, Women in agriculture day		
Dhenkanal	World food day	1	1	10	39	1	-	6	3			
Dhenkanal	Women in agriculture day	1	1	-	50	-	-	-	-			
Dhenkanal	Jai kisan jai vigyan	1	1	8	18	-	-	-	-s			

## 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	25.6.2016	Quarterly	500	500
Dhenkanal	25.9.2016	Quarterly	500	500
Dhenkanal	25.12.2016	Quarterly	500	500
Dhenkanal	25.3.2017	Quarterly	500	500

### 7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Dhenkanal	Booklet	Improved package and practices of sesamum cultivation	S. K. Mohapatra, & D. Panda	500
Dhenkanal	Booklet	Improved package and practices of chickpea cultivation	S. K. Mohapatra & D. Panda	500
Dhenkanal	Booklet	Improved package and practices of mustard cultivation	S. K. Mohapatra & D. Panda	500
Dhenkanal	Booklet	Training manual of Animal Science	R. B. Nayak	500
Dhenkanal	Booklet	Training manual of Fishery science	J. Sahoo	500
Dhenkanal	Booklet	Khani ambula prastuti dwara krushi vittika karma nijukti	S. K. Mohapatra & M. R. Mohanty	500
Dhenkanal	Booklet	Goat farming	R. B. Nayak & S Pal	500
Dhenkanal	Booklet	Use and maintenance of 8-row rice transplanter	D. Paramajita & S Pal	500
Dhenkanal	Booklet	Dudhiali Gae manankapain azolla chasa	S. Pal & R. B. Nayak	500
Dhenkanal	Booklet	Gouna Krushi Udyoga	S. Pal, R. B. Nayak & 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	CD	Training programme of Panipanchayat members	1
Dhenkanal	CD	World Soil Health Day	1
Dhenkanal	CD	Value addition to mango	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	Swarna Sub-1	120.2	176694		
Dhenkanal	Foundation	Rice	Ranidhan	80.8	118776		
Dhenkanal	Mushroom	Rice straw mushroom	V.volvacea	2.25	16875	Public sale	
Dhenkanal	Mushroom	Oyster mushroom	P.sajarcaju	0.90	4500	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	Papaya saplings	Pusha Nanha	895	8950	150	
Dhenkanal	Horticulture	Drumstick	PKM-1	50	500	10	
Dhenkanal	Horticulture	Onion	Bhima super	300000	15000	5	
Dhenkanal	Horticulture	Brinjal	Swarna shyamli	18370	18370	15	
Dhenkanal	Horticulture	Tomato	Swarna Sampad, Swarna anmol	16130	16130	10	
Dhenkanal	Horticulture	Chilli	Utkal Ava	800	800	8	
Dhenkanal	Horticulture	Marigold	Pusa narangi	15000	15000	10	
Dhenkanal	Horticulture	Cauliflower	Atisighra	970	970	2	
Dhenkanal	Horticulture	Cabbage	Pusa head	200	200	1	
Dhenkanal	Forestry	Forest seedlings		1988	24430	20	
Dhenkanal	Forestry	Medicinal seedlings		24	270	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	698		6980	48	
Dhenkanal	Bio Fertilizer	Honey	8		2400	16	



#### 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	798	41090	100
Dhenkanal	Ducklings	Khaki Campbell	Chicks	200	11000	10

### 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	470	470	30		470

#### 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	15	15	4		15

### 10. Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Name of KVK	Date	Title of the training course	Client (PF/RV/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/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	October	2016	Training programme for Panipanchayat Members	4	30	3		30
Dhenkanal	November	2016	Commercial mushroom cultivation	3	10	2		30
Dhenkanal	January	2017	Value addition of date palm and pamyra palm	3	15	2		30
Dhenkanal	April 2016 to March 2017	2016-17	7 nos of rooms are occupied by Student of Agro-Poly technique	-	-	-	-	-

## 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	0	Renovation work is required.

## 13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Dhenkanal	26.11.2016	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.

## 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	168	60935	462	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						

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

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Dhenkanal	30306531704	148447	0	0

## 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	-

## 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	Monmohan Prusty	Sprinkler irrigation in poultry farm	At. Harekrushnapur, Po. Kaimati, Block – D. Sadar, Dist. Dhenkanal, Mobile No.9438707441
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	At. Chakadolasahi, Po/Block- Gondia, Dist. Dhenkanal, Mobile

			wood craft	No. 8895475270
4	Dhenkanal	Pravakar Pradhan	Use of boil sweet potato for making sweet meats	At. Parabatia, Po. Sankarpur, Dist. Dhenkanal
5	Dhenkanal	Mayadhar Behera	Improve banana cultivation	At. Gurujangulei, Block-Kankadahada, 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	1.05.2016	50
2	7.8.16	25
3	31.10.16	200
4	26.11.16	25
5	5.12.16	200

## 21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Dhenkanal	5	6	18	82

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	Sj. Tathagata Satapathy, MP	3.4.2016			MP	In the occasion of PMFBY
Dhenkanal	Prof. S. N. Pasupalaka, VC, OUAT, BBSR	30.6.2016		SAU		Monitoring the KVK activities
Dhenkanal	Sj. Sachidulal Raychaudhuri, Principal Scientist, ICAR, IIWM,	20.8.16	ICAR			Coordination of MGMG programme with KVK
Dhenkanal	Dr. Rajiv Kumar Mohanty, Principal Scientist, ICAR, IIWM,	20.8.16	ICAR			Coordination of MGMG programme with KVK
Dhenkanal	Dr. A. K. Thakur, Principal Scientist, ICAR, IIWM,	20.8.16	ICAR			Coordination of MGMG programme with KVK
Dhenkanal	Dr. Naresh Babu, Principal Scientist Hort. ICAR (CIWA)	29.9.16	ICAR			Conducting field trials at farmers field with KVK
Dhenkanal	Sj. C. Roul, Addl. Secretary, DARE & Secretary, ICAR	8.12.2016 & 22.4.2017	ICAR			Monitoring the KVK activities
Dhenkanal	Sj. S. K. Srivastava, Principal Scientist Entomology, ICAR (CIWA)	16.1.2017	ICAR			Conducting trial in the farmers field with KVK
Dhenkanal	Sj. S. K. Srivastava, Principal Scientist Entomology, ICAR (CIWA)	16.1.2017	ICAR			Conducting trial in the farmers field with KVK
Dhenkanal	Dr. T. N. Raviprasad, Principal Scientist Agril. Entomology, ICAR, DCR, Puttur	20.2.2017	ICAR			Conducting trial in the farmers field with KVK

## 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	51	246

## 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
1	Dhenkanal			

## 28. Status of Citizen Charter

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

## 29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Dhenkanal	Dr. R. B. Nayak	Scientist (Animal Science)	1	Training cum workshop for Animal Scientist
Dhenkanal	J. Sahoo	Programme Asst. (Fishery)	1	Training cum review workshop on Promising of fishery technology
Dhenkanal	S Pal	Scientist (Home Science)	1	Training cum review workshop for Home Science Scientist

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	D. Paramajita	Scientist (Ag. Engg.)	1	Rice Check workshop

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

**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	J Sahoo	Prog. Asst.	1	

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			

Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
Dhenkanal			

Farmers-scientists interaction on livestock management

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

**Animal health camps organized**

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

Dhenkanal			
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### Seed distribution in drought hit states

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

### Seedlings and Saplings distributed

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

### 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				

### 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			

### 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												



## 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
Dhenkanal					

### 2. Proposed Extension Activities in NICRA Village

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

### 3. Proposed Training Activities in NICRA Village

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

### 4. Proposed Activities for Fodder Bank

Established (Years)	Capacity	Current Status
Dhenkanal		

### 5. Proposed Activities for Seed Bank

Established (Years)	Capacity	Current Status
Dhenkanal		

### 6. Public Representative/District Administration Visited in NICRA Village

Name of Representative/Officer	Designation	Date of Visit	Any Special Remark by Visitors
Dhenkanal			

### 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

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	2	0

### 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) –