

# **ANNUAL ACTION PLAN**

*(April 2015 - March 2016)*



**KVK, DHENKANAL**



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

# Contents

Sl. No.	Particular	Page No
	Summary of Action Plan during 1 <sup>st</sup> April 2015 to 31 <sup>st</sup> March 2016	3-4
1	General Information	5-8
2	On Farm Testing	9-10
3	Frontline Demonstrations	11-17
4	Feedback System	17-18
5	Training programmes	19-24
6	Extension Activities	25
7	Production and supply of Technological products	26-27
8	Activities of Soil and Water Testing Laboratory	27
9	Rainwater Harvesting System	27
10	Kisan Mobile Advisory	28
11	Details of SAC Meeting	28
12	Literature to be Developed/Published	28
13	Convergence with Agricultural Schemes	29
14	Utilization of Farmer Hostel	29
15	Utilization of Staff Quarter	29
16	Details of KVK Agro-technological Park	29
17	Farm Innovators	30
18	KVK Progressive farmer interaction	31
19	Outreach of KVK	31
20	Technology Demonstrations under TDHPP/Tribal Sub Plan/QPM	31
21	KVK Ring	31
22	Important visitors to KVK	32
23	Status of KVK Website	32
24	Status of RTI	32
25	E-Connectivity (E- Linkage Lab)	32
26	Details of Technology Week Celebrations	32
27	Interventions on Drought Mitigation	33-34
28	Activities Under NICRA	35
29	Activities under NAIP	35
30	Status of Revolving Funds	36
31	Awards & Recognitions	36
32	Case study / Success Story	36
33	Well labeled photographs of various activities in JPEG format	36

**PERIOD – April 2015 to March, 2016**  
**Summary of the activities**

KVK Name	Activity	Target		Achievement		Total value of resource generated/Fund received from diff. sources (Rs.)
		Number of activity	No. of farmers/ beneficiaries	Number of activity	No. of farmers/ beneficiaries	
Dhenkanal	OFTs	17	146			
Dhenkanal	FLDs – Oilseeds (activity in ha)	5	25			
Dhenkanal	FLDs – Pulses (activity in ha)	5	25			
Dhenkanal	FLDs – Cotton (activity in ha)					
Dhenkanal	FLDs – Other than Oilseed and pulse crops(activity in ha)	15.175	160			
Dhenkanal	FLDs – Other than Crops (activity in no. of Unit/Enterprise)	52	52			
Dhenkanal	Training-Farmers and farm women	65	1625			
Dhenkanal	Training-Rural youths	11	180			
Dhenkanal	Training- Extension functionaries	10	150			
Dhenkanal	Extension Activities	835	6900			
Dhenkanal	Seed Production (Number of activity as seeds in quintal)	1	180			
Dhenkanal	Planting material ((Number of activity as quantity of planting material in quintal) Mushroom spawn bottles	400 nos	80			
Dhenkanal	Seedling Production (Number of activity as number of seedlings in numbers)	350000	500			
Dhenkanal	Sapling Production (Number of activity as number of sapling in numbers)	4000	20			
Dhenkanal	Other Bio- products (No. of quantity) Mushroom, vermicompost	3 qtl, 10 qtl	100, 100			
Dhenkanal	Live stock products	400200	40			
Dhenkanal	Activities of Soil and Water Testing Laboratory	1050	1050			
Dhenkanal	Rainwater Harvesting System					
Dhenkanal	Kisan Mobile Advisory (KVK-KMA)	150	5000			
Dhenkanal	SAC Meeting (Date & no. of core/ official members)	2	50			
Dhenkanal	Literature to be Developed/Published	4500	4500			
Dhenkanal	Convergence programmes / Sponsored programmes	5	200			
Dhenkanal	Utilization of Farmers Hostel	7	160			

KVK Name	Activity	Target		Achievement		Total value of resource generated/Fund received from diff. sources (Rs.)
		Number of activity	No. of farmers/beneficiaries	Number of activity	No. of farmers/beneficiaries	
Dhenkanal	Utilization of Staff Quarters	6	6			
Dhenkanal	Details of KVK Agro-technological Park	1	200			
Dhenkanal	Crop Cafeteria-	1	200			
Dhenkanal	Farm Innovators- list of 10 farm innovators from the District	10	10			
Dhenkanal	Status of Revolving Funds	1				
Dhenkanal	Awards and Recognitions	6	30			
Dhenkanal	Case study / Success Story to be developed	1	5			
Dhenkanal	KVK Progressive Farmers interaction	10	150			
Dhenkanal	Outreach of KVK in the District (No. of blocks, no. of villages)	8	50			
Dhenkanal	Technology Demonstration under Tribal Sub Plan					
Dhenkanal	KVK Ring	4	-			
Dhenkanal	Important visitors to KVK	10	10			
Dhenkanal	Status of KVK Website	1	200			
Dhenkanal	Status of RTI					
Dhenkanal	E-connectivity					
Dhenkanal	Details of Technology Week Celebrations	1	300			
Dhenkanal	Interventions on Drought Mitigation	1	500			
Dhenkanal	Proposal of NAIP					
Dhenkanal	Proposal of NICRA					
Dhenkanal	Well labeled photographs	400	400			
Dhenkanal	Other Activities					

# 1. GENERAL INFORMATION

## 1.1. Staff Position (as on 31.03.2015)

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

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

Geographical Area(000'Ha)	445
Cultivable Area(000'Ha)	186
Cultivable Waste land(000'Ha)	004
Current fallow(000'Ha)	031
Other fallows(000;ha)	020
Forest(000'Ha)	174
Pasture(000'Ha)	008
Land(Non Agriculture use) (000'ha)	042
Land under misc. plantation(000'ha)	006
Barren & un culturable land (000'ha)	005

**Area, Production & productivity of the major crops cultivated in the districts**

Name of the crop	Area in ha	Production in (MT)	Yield q/ha
Paddy	112749	2543585	20.72
Sugarcane	1189	814580	685.1
Maize	2827	17280	6.11
Groundnut	15161	186520	12.30
Seasamum	15953	32790	2.06
Green gram	23529	52190	2.22
Black gram	23707	59200	2.50
Arhar	4689	34280	7.31
Vegetables	25186	3065350	121.71

### 1.3. DETAILS OF ADOPTED VILLAGE during 1.4.2012 to 31.3.2013 (Approved by competent Authority in meetings/workshops)

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
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	Keutabereni	2014-15	Dhenkanal Sadar	20 km	550	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	Importance on INM, IPM, IDM and in major field crop and vegetable crops
Dhenkanal	Varietal replacement of different field crops and vegetable crops
Dhenkanal	Development of integrated farming system models for different farming situation
Dhenkanal	Value addition and marketing of farm produces
Dhenkanal	Hi-tech horticulture and precision farming
Dhenkanal	Farm mechanization
Dhenkanal	Water management
Dhenkanal	Women empowerment
Dhenkanal	Creation of additional income and employment generation through agro based enterprises
Dhenkanal	Development of approach / methodology for large scale adoption of technologies
Dhenkanal	Development of climate smart village
Dhenkanal	Importance of organic farming
Dhenkanal	Protection of farmers variety under IPR act
Dhenkanal	Resource conservation technology

### 1.5. 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	Lack of knowledge and skill on scientific practices like INM, IPM, IDM and farm mechanization reduce the yield and return in major crops of the district.	Through PRA tools and Discussion with the group of farmer	Arada & Sadar
Dhenkanal	Lack availability of quality seeds and planting materials reduce the yield and return in major field crops like paddy, pulses, oilseeds, sugarcane and vegetables	Through PRA tools and Discussion with the group of farmer	Nuagaon & Sadar
Dhenkanal	Lack of knowledge in farming system model in upland, rainfed and eco-system give less return to the farmers	Through PRA tools and Discussion with the group of farmer	Gurujangulei & Kankadahad
Dhenkanal	No assured irrigation round the year for taking of different crops	Through PRA tools and Discussion with the group of farmer	Bhangamal & Sadar
Dhenkanal	Non availability of skill labour for farm operation pose a great problem for taking of different crops	Through PRA tools and Discussion with the group of farmer	Talabarkote & Sadar
Dhenkanal	Lack of entrepreneurship attitude of rural youth towards farming stand as a barrier for progressive agriculture	Through PRA tools and Discussion with the group of farmer	Chaipur & Odapada
Dhenkanal	Low yield and return from pisciculture due to non availability of adequate fingerlings and yearlings	Through PRA tools and Discussion with the group of farmer	Kasiadihi & Odapada
Dhenkanal	Distress sale of horticultural produces	Through PRA tools and Discussion with the group of farmer	Akrantapur & Odapada
Dhenkanal	Lack of technological backstopping to the WSHG groups keep them away from agrobased enterprises	Through PRA tools and Discussion with the group of farmer	Talabarkote & Sadar
Dhenkanal	Low milk yield of desi cows	Through PRA tools and Discussion with the group of farmer	Mahadia & Odapada
Dhenkanal	Low body weight of desi birds	Through PRA tools and Discussion with the group of farmer	Gurujangulei & Kankadahad
Dhenkanal	Under utilization of paddy straw	Through PRA tools and Discussion with the group of farmer	Tabapal Nuasahi & Sadar
Dhenkanal	Under utilization of oyster mushroom cultivation	Through PRA tools and Discussion with the group of farmer	Bangursingh & Sadar
Dhenkanal	Improper utilization of family labour and home stead lands	Through PRA tools and Discussion with the group of farmer	Majhisahi & Sadar
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	Sogara & Kamakhyanagar
Dhenkanal	Shortage of quality timbers	Through PRA tools and Discussion with the group of farmer	Tamanda & Odapada
Dhenkanal	Unutilization of Waste land	Through PRA tools and Discussion with the group of farmer	Bagda & Odapada
Dhenkanal	Shortage of quality timbers, unutilized farm bunds	Through PRA tools and Discussion with the group of farmer	Harekrushnapur & sadar
Dhenkanal	Lack of quality planting material of forest species	Through PRA tools and Discussion with the group of farmer	Banjhacusuma & Sadar



## 2. On Farm Testing

### 2.1 Information about OFT to be conducted

KVK name	Year/season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situations	Target	No. of trials	Title of OFT	Results (with parameter)		Net Returns (Rs./ha)	
										Farmer practice T1	Rec. Tech T2	T1	T2
Dhenkanal	Kharif 2015-17	Low yield due to use of local variety and improper pest & post harvest management	Assessment	ICM	Onion	Rainfed medium land	1 ha	04	Assessment of Kharif onion varieties with IPM practices				
Dhenkanal	Rabi 2015-17	Low return due to lack of management practices like canopy, pest & disease and water management & Lack of knowledge in post harvest management which causes loss to mango grower	Assessment	ICM	Mango	Irrigated medium land	1 ha	04	Assessment of different management techniques				
Dhenkanal	Kharif 2014-16	Yield loss due to heavy infestation of pod borer	Assessment	IPM	Pigeon pea	Rainfed Medium land	1 ha	13	Assessment of IPM in pod borer management in pigeon pea				
Dhenkanal	Kharif 2015	Spoil of vegetables due to lack of refrigeration facility in tribal pockets in dhenkanal district	Assessment	Value addition	Potato	Rainfed medium land	6 nos	6	Assessment of preservation technique of potatoes by use of charcoal pieces				
Dhenkanal	Kharif 2015-17	Less survival of NB-21 in rainfed situation with low fodder mass production	Assessment	Varietal evaluation	Hybrid Napier	Rainfed upland	1 ha	5	Assessment of different fodder variety of hybrid napier and its palatability study for milching cows in rainfed upland				
Dhenkanal	Kharif 2015	Less biomass i.e. grain, wood and pasture production from a unit of land	Assessment	Agro-Forestry	Sissu, Eucalypt, Mango, Rajma, Cowpea	Rainfed upland	5	5	Assessment of agrisilvi-pastural system for rainfed uplands of dhenkanal district				
Dhenkanal	Kharif 2014-17	High labour cost & time involved in manual random transplanting and line transplanting	Assessment	Farm Mechanization	Paddy	Rainfed Upland/ Medium land	1.0ha	13	Assessment of 8-row Self Propelled Rice Transplanter				
Dhenkanal	Kharif 2015	Low yield of paddy straw mushroom during peak period of summer	Assessment	Income generation	Mushroom	Rainfed	130 beds	13	Management of paddy straw variety OSM-II in extreme heat period				

Dhenkanal	Kharif 2015-17	Low production of papaya due to improper planting geometry, pest, disease & water management	Assessment	ICM	Papaya	Irrigated medium land	1 ha	04	Assessment of suitable varieties in papaya to avoid climate hazards with pest, disease and water management				
Dhenkanal	Rabi 2014-17	Low income due lack of management resources	Assessment	ICM	Cowpea, Cabbage	Irrigated medium land	1 ha	05	Assessment of suitable horti-based Farming System Model				
Dhenkanal	Rabi 2014-16	Low yield of cucumber due to high incidence of downey mildew	Assessment	IDM	Cucumber	Irrigated medium land	1 ha	13	Assessment of carbendazim with mancozeb for controlling downey mildew of cucumber				
Dhenkanal	Rabi 2014-16	Incorporation of partially decomposed FYM in excess into mother bed, excess watering and full time shade leading to withering of seedlings at collar region and hence large scale casualty	Refinement	Agro-Forestry	Eucalyptus	Rainfed upland	8	8	Assessment of preventive & remedial measures against damping off of eucalyptus seedlings in mother bed				
Dhenkanal	Rabi, 2014-16	Weight loss & detritions in quality in greengram due to infestation of pulse beetle	Assessment	Storage loss minimization techniques	crop	Homestead	26traps	13	Assessment of TNAU insect Trap in Green gram				
Dhenkanal	Rabi, 2015-16	Non availability of paddy straw and low return	Assessment	Income generation	Oyster mushroom	Homestead	13	13	Assessment of production of Oyster Mushroom variety P.sajarcaju through different substrates				
Dhenkanal	Rabi 2014-17	High labour cost and time involved in sowing groundnut behind the bullock drawn plough	Assessment	Farm mechanization	Groundnut	Irrigated medium Land	1.0ha	13	Assessment of power Tiller operated 5-row Seed cum Fertilizer drill in sowing Groundnut.				
Dhenkanal	Rabi 2015-16	Low selling price of farm produces	Assessment	Group dynamics	Income generation by SHG	Homestead	2	2	Assessment of market-led approach for income generating Activities by SHG				
Dhenkanal	Rabi 2015-16	Low birth weight & high morbidity rate in kids	Assessment	Livestock production management	Goat	Semi-Intensive	15	15	Assessment of peri parturient concentrate feeding on birth weight of kids				
Dhenkanal	Rabi 2015-16	Improper nutrition in dairy animals & low milk yield	Assessment	Livestock production management	Dairy cattle	Stall feeding	13	13	Assessment of bypass protein feeding on milk production of dairy cattle				

## 2.1a Recommendations of OFTs

Recommendations		
Title of OFT	For Farmers	For Deptt. Personnel

## 2.2 Economic Performance

KVK name	OFT Title	Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	RP (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	RP (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	RP (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	RP (T <sub>3</sub> )

## 3. Frontline Demonstrations

### 3.1. Follow-up for results of FLDs implemented during previous years (upto 2014-15)

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	Cow pea	ICM	Cultivation of cowpea variety Utkala manika	Line sowing of seeds in ridges and Variety has uniform fruit size and harvesting period, High yield response to organic manure.	05	13	1
Dhenkanal	Bitter gourd	ICM	Standardized dose of plant growth regulator on bitter gourd for higher yield in different crop growth period	Application of Plant growth regulator (Tricentanol 2ml/liter at 2-4 leaf stage and GA 1gm / 16 liter of water before flowering) in bitter gourd.	05	13	1
Dhenkanal	Brinjal	ICM	Cultivation of brinjal under protected condition	Farming in Protected condition under poly house may results High fruit setting %, Less pest, High Yielding	05	13	0.4
Dhenkanal	Banana	ICM	Planning geometry in tissue culture banana	Spacing between PXP and RXR = 1.5X1.5m. Robusta, paired row planting system (1.5x1.5x2.0m) recorded a total yield approximate of 65.91 tones/ha that was higher than the conventional planting system	05	13	0.4
Dhenkanal	Paddy	Farm Mechanization	Use of 8-row Drum seeder in puddle field for sowing of pre germinated Paddy seeds at a spacing of 20cm	Training, leaflet, film show and huge demonstrations	35	5200	1040
Dhenkanal	Paddy	Farm Mechanization	Use of Self Propelled Paddy Reaper in harvesting of Paddy , having field capacity 0.2ha/h	Training, film show, and demonstrations	30	4500	3100
Dhenkanal	Paddy	Farm Mechanization	Use of Tractor operated Axial Flow thresher in Paddy Threshing having field capacity (8-10) qtl/hr	Training and demonstrations	40	8000	6500
Dhenkanal	Blackgram	IPM	Application of Imidachlopid @ 3ml/10lit of water just at floral bud initiation and 2 <sup>nd</sup> spraying after 10 days for controlling sucking pests in blackgram	Training and method demonstration	35	1200	350

Dhenkanal	Bamboo	Agro forestry	In absence of seed, bamboo can be propagated vegetatively. Pre-monsoon layering is for exsitu plantation & monsoon - layering is for in situ plantation in rainfed situation. No necessity of filling water in internodes of bamboo	Training, leaflet and demonstration	10	150	90
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### 3.2 Details of FLDs to be implemented during 2015-16

KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety Entreprizes	Results (q/ha)		% change	No. of farmers				
							Demo ns	Check		SC	ST	OBC	Others	Tota l
Dhenkanal	ICM	Cow pea	Kharif, 2015	Line sowing of seeds in ridges and Variety has uniform fruit size and harvesting period, High yield response to organic manure.	1	Utkala Manika							10	10
Dhenkanal	ICM	Bitter gourd	Kharif, 2015	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.	1	BCH-608							10	10
Dhenkanal	ICM	Tomato	Kharif 2015	Use of resistant and bumper yield variety	1	Swarna sampad							10	10
Dhenkanal	ICM	Broccoli	Rabi 2015-16	Farming in Protected condition (Net House)	0.4								10	10
Dhenkanal	IDM	Groundnut	Kharif, 2015	Summer ploughing + application of Trichoderma viridae inoculated FYM and spraying of chlorothalonil @2ml/l of water	1	Devi							10	10
Dhenkanal	IDM	Paddy	Kharif, 2015	Application of chemicals(Copper oxichloride + Plantomycine) for control of BLB in rice.	1	Swarna							10	10
Dhenkanal	IPM	Paddy	Rabi, 2015-16	Installation of pheromone trap @8-10 / ac with release of Trichogramma japonicum @50,000 / ha 6-7 times at 10 days interval and foliar application of profenophos + cyper methrin @2ml / lit of water	1	Naveen							10	10

Dhenkanal	IPM	Cowpea	Rabi, 2015-16	Application of multineem @5ml/ l of water and spraying of thiomethoxam @5 g / 15 l of water	1	Utkal Manik							10	10
Dhenkanal	Farm Mechanization	Paddy	Kharif 2015	Weeding and intercultural operation by power paddy weeder of field capacity 0.12ha/h and weeding will be done at 15, 30 and 45 DAT	1.0	Puja	-	-	-				10	10
Dhenkanal	Farm Mechanization	Groundnut	Kharif 2015	Performance of Wheel Cycle weeder for intercultural operation in Groundnut	1.0	Local	-	-	-				10	10
Dhenkanal	Farm Mechanization	Paddy	Rabi 2015-16	Performance of Power Tiller operated Axial Flow Thresher	1.0	Kalachampa	-	-	-				10	10
Dhenkanal	ICM	Groundnut	Rabi 2015-16	Demonstration of groundnut variety Smruti with all package of practices	5.0	Smruti							25	25
Dhenkanal	ICM	Green gram	Rabi 2015-16	Demonstration of Green gram variety Durga with all package of practices	5.0	Durga							25	25
Dhenkanal	Micro irrigation	Water melon	Rabi 2015-16	Drip irrigation fitted with two emitters to each plant having discharge 8 lits / hr, with a spacing of 6' between each laterals	0.04	Dighi			-				01	01
Dhenkanal	Drudgery Reduction	Enterprise	Kharif 2015	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	10no.	Sugarcane bud chipper							10	10
Dhenkanal	Small scale IGA	vegetables	Kharif 2015	Temp. of zero energy cool chamber remains within 10 to 15 degree centigrade in which the self life of leafy vegetables upto 3 days, other veg. -5 days, potatoes- 52 days, mango-8 days; Length- 165cm, breadth-115cm, height- 67.5cm with a cavity of 7.5cm	2units	vegetables							2	2
Dhenkanal	Nutritional Management	Enterprise	Rabi 2015-16	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	10 nos	Azolla							10	10

Dhenkanal	Value addition	groundnut	Rabi, 2015-16	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	10no.	Groundnut, Devi							10	10
Dhenkanal	NWFP	Mango	Pre - Kharif, 2015-16	Half mature mango are cut into halves followed by salt treatment and piling in a prescribed pit for a month and then drying in sun	10 pits (2mx2m ) 1000 kg mango	Local							10	10
Dhenkanal	Lac culture	Lac	Kharif, 2015-16	Brood lac to be inoculated in Kusum trees will be inoculated in shoots of Kusuma plant	0.2	Aghani lac							10	10
Dhenkanal	Agro-forestry	Sissu	Kharif, 2015-16	Elite seedlings will be planted at 3mx3m in monsoon followed by proper treading operations	1.0	Sissu							10	10
Dhenkanal	Agro-forestry	Bamboo	Kharif, 2015-16	Juvenile branches (< 1 year old) having 4-5 nodes derived from culms of 1-2 year old is layered in soil around monsoon	0.025	Sundarkani ( <i>B. vulgaris</i> )							10	10
Dhenkanal	Drudgery reduction	Mahua	Rabi 2015-16	The decorticator process 20 kg of seed /hr manually when seed is fed in to the machine followed by rotating an axil which decorticates seeds by rubbing and crushing action against the world	10 nos	Local							10	10
Dhenkanal	Production & management	IMC & Prawn	Kharif 2015	Stocking fresh water prawn @10000 nos /ha (1.5gm size with IMC)	1.5 ha/ 4	M, rosenbergii							4	4
Dhenkanal	Production & management	IMC & P.gonionotus	Kharif 2015	Stocking of catle, rohu javapunti & mirigal at the ration 3:4:2:3	2 ha/5	P. gonionotus							5	5
Dhenkanal	Livestock Production management	Poultry	Rabi, 2015-16	Use of backyard, Rearing of proven breeds in backyard, Commercial feeding for 1 month, Brooding and Vaccination	10	Black rock							10	10

### 3.3 Economic Impact of FLD

KVK Name	Name of Crop/ Enterprise	Technology demonstrated	Parameters			Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	Demo	Check	Demo	Check	Demo	Check	Demo	Check	Demo	Local Check
Dhenkanal													

### 3.4 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Dhenkanal	Cow pea	Field days			
		Farmers Training	02	50	
		Media coverage	01		
		Training for extension functionaries			
Dhenkanal	Bitter gourd	Field days			
		Farmers Training	02	50	
		Media coverage	01		
		Training for extension functionaries			
Dhenkanal	Brinjal	Field days	01	30	
		Farmers Training	02	50	
		Media coverage	01		
		Training for extension functionaries	01	15	
Dhenkanal	Banana	Field days	01	30	
		Farmers Training	02	50	
		Media coverage	01		
		Training for extension functionaries	01	15	
Dhenkanal	Groundnut	Field days	1	30	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries	1	15	
Dhenkanal	Paddy	Field days	1	30	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Dhenkanal	Paddy	Field days	1	30	

		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries	1	15	
Dhenkanal	Cowpea	Field days	1	30	
		Farmers Training	1	25	
		Media coverage	1	20	
		Training for extension functionaries			
Dhenkanal	Paddy	Field days	2	80	
		Farmers Training	4	100	
		Media coverage	1	15	
		Training for extension functionaries	1	15	
Dhenkanal	Groundnut	Field days	2	80	
		Farmers Training	2	50	
		Media coverage	-	-	
		Training for extension functionaries	-	-	
Dhenkanal	Sugarcane	Field days	1	30	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries	1	15	
Dhenkanal	Vegetables	Field days	1	30	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Dhenkanal	Groundnut	Field days	1	30	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries	1	15	
Dhenkanal	Stone Apple	Field days	1	30	
		Farmers Training	1	25	
		Media coverage	1	20	
		Training for extension functionaries			
Dhenkanal	Lac	Field days	1	30	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries	1	15	
Dhenkanal	Sissu	Field days	1	30	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Dhenkanal	Bamboo	Field days	1	30	
		Farmers Training	1	25	
		Media coverage			



		Training for extension functionaries	1	15	
Dhenkanal	Mango	Field days	1	30	
		Farmers Training	1	25	
		Media coverage	1	20	
		Training for extension functionaries			
Dhenkanal	IMC & P.gonionotus	Field days	1	30	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries	1	15	
Dhenkanal	IMC & P.gonionotus	Field days	1	30	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Dhenkanal	Fish	Field days	1	30	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries	1	15	

### 3.5 Details of FLD on crop hybrids.

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

## 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				

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

Name of KVK	Feedback basic of OFT on Technology Tested
Dhenkanal	

## 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>	
CP	Crop Production
HOV	Horticulture – Vegetable Crops
HOF	Horticulture-Fruits
HOO	Horticulture- Ornamental Plants
HOP	Horticulture- Plantation crops
HOT	Horticulture- Tuber crops
HOS	Horticulture- Spices
HOM	Horticulture- Medicinal and Aromatic Plants
SFM	Soil Health and Fertility Management
LPM	Livestock Production and Management
WOE	Home Science/Women empowerment
AEG	Agril. Engineering
PLP	Plant Protection
FIS	Fisheries
PIS	Production of Inputs at site
CBD	Capacity Building and Group Dynamics
AGF	Agro-forestry
OTH	Others
RY	Rural Youth
IS	Extension Personnel

## 5. TRAINING PROGRAMMES

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

**Table 5.1: Documentation of the need assessment conducted by the KVK for the training programme**

Name of KVK	Category of the training	Methods of need assessment	Date and place	No. Of participants to be involved
Dhenkanal	FW	PRA and Farmer scientist interaction		
Dhenkanal	RY	PRA and Farmer scientist interaction		
Dhenkanal	IS	PRA and Farmer scientist interaction		

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

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8		9	10	11	12	13	14	15	16
Dhenkanal	FW	ONC	HOV	Vegetable seedling production under poly house	1	2	25								
Dhenkanal	FW	OFC	HOS	Production technology of Organic spices	1	1	25								
Dhenkanal	FW	ONC	HOV	Training on off season onion farming	1	2	25								
Dhenkanal	FW	ONC	HOS	Cultivation of Kharif tomato	1	2	25								
Dhenkanal	FW	ONC	HOV	Post Harvest management and supply chain management of vegetables.	1	2	25								
Dhenkanal	FW	ONC	HOO	Protected cultivation of commercial flowers	1	2	25								
Dhenkanal	FW	OFC	HOV	Commercial papaya cultivation	1	1	25								
Dhenkanal	FW	OFC	HOF	Commercial cultivation of Banana	1	1	25								
Dhenkanal	FW	OFC	HOV	Training on cultivation management, planting time & canopy management in mango.	1	1	25								
Dhenkanal	FW	OFC	HOV	Training on establishment of Nutritional Garden	1	1	25								
Dhenkanal	FW	ONC	HOT	Production of Tuber crop	1	2	25								
Dhenkanal	FW	OFC	HOV	Training on Summer vegetable farming	1	1	25								

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8		9	10	11	12	13	14	15	16
Dhenkanal	FW	ONC	PLP	Management of blast, sheath blight & BLB disease in Paddy	1	2	25								
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 Summer Paddy	1	2	25								
Dhenkanal	FW	OFC	PLP	Integrated pest & disease management in Groundnut	1	1	25								
Dhenkanal	FW	ONC	PLP	Integrated pest & disease management in Arhar	1	2	25								
Dhenkanal	FW	OFC	PLP	Integrated pest & disease management in Sugarcane	1	1	25								
Dhenkanal	FW	OFC	PLP	Integrated pest & disease management in Solanaceous crop	1	1	25								
Dhenkanal	FW	OFC	PLP	Pest & Disease management in sesamum	1	1	25								
Dhenkanal	FW	OFC	PLP	Pest & Disease management in Greengram	1	1	25								
Dhenkanal	FW	OFC	PLP	Pest & Disease management in Cucurbitaceous crop	1	1	25								
Dhenkanal	FW	ONC	PLP	Pest & Disease management in Cole crops	1	2	25								
Dhenkanal	FW	ONC	PLP	Pest & Disease management in Papaya	1	2	25								
Dhenkanal	FW	OFC	AEG	Use of farm implements in direct seeded Paddy cultivation	1	1	25								
Dhenkanal	FW	ONC	AEG	Technique of nursery raising for using self propelled Rice Transplanter	1	2	25								
Dhenkanal	FW	OFC	AEG	Use of Wheel Cycle Weeder for intercultural operations in Groundnut	1	1	25								
Dhenkanal	FW	OFC	AEG	Operation, Maintenance, safety precautions to be taken in using Power Tiller operated Axial Flow Thresher	1	1	25								
Dhenkanal	FW	ONC	AEG	Land preparation and calibration of Power Tiller operated Seed drill	1	2	25								

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8		9	10	11	12	13	14	15	16
Dhenkanal	FW	OFC	AEG	Operation & maintenance of paddy Power weeder	1	1	25								
Dhenkanal	FW	OFC	AEG	Operation & maintenance of Groundnut harvesting implements	1	1	25								
Dhenkanal	FW	ONC	AEG	Micro irrigation in Horticultural crops	1	2	25								
Dhenkanal	FW	ONC	AEG	Repair & Maintenance of Diesel Pumpset	1	2	25								
Dhenkanal	FW	ONC	AEG	Irrigation scheduling according to crop water requirement at different critical stages.	1	2	25								
Dhenkanal	FW	ONC	WOE	Enhancing HH nutritional security through nutritional food supplements	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	2	25								
Dhenkanal	FW	ONC	WOE	Cultivation of azolla in backyard for milching cow	1	2	25								
Dhenkanal	FW	OFC	WOE	Storage of vegetables in zero energy cool chamber to minimise post harvest loss	1	1	25								
Dhenkanal	FW	OFC	WOE	Mushroom cultivation in different substrate	1	1	25								
Dhenkanal	FW	OFC	WOE	Safe storage of food grains	1	1	25								
Dhenkanal	FW	ONC	WOE	Value addition of stone apple	1	2	25								
Dhenkanal	FW	OFC	WOE	Value addition of groundnut	1	1	25								
Dhenkanal	FW	OFC	WOE	Use of improved technologies to ameliorate hardship in agricultural operations	1	1	25								
Dhenkanal	FW	ONC	WOE	Backyard poultry for additional house hold income	1	2	25								
Dhenkanal	FW	ONC	AGF	Processing and storage of the seed	1	2	25								
Dhenkanal	FW	OFC	AGF	Selection of plus tree for seed collection	1	1	25								
Dhenkanal	FW	OFC	AGF	Establishment and management of seed orchard	1	2	25								

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8		9	10	11	12	13	14	15	16
Dhenkanal	FW	ONC	AGF	Preparation of RTS from elephant apple	1	2	25								
Dhenkanal	FW	ONC	AGF	Value addition of raw jack fruit	1	2	25								
Dhenkanal	FW	ONC	AGF	Preparation of squash from mahua flower	1	2	25								
Dhenkanal	FW	ONC	AGF	Extraction of chironjee dana (Karnel) from char seed	1	2	25								
Dhenkanal	FW	ONC	AGF	Preservation of tamarind	1	2	25								
Dhenkanal	FW	OFC	LPM	Feeding management of goats	1	1	25								
Dhenkanal	FW	OFC	LPM	Scientific broiler farming	1	1	25								
Dhenkanal	FW	OFC	LPM	Importance of by pass protein feeding in milch animals	1	1	25								
Dhenkanal	FW	OFC	LPM	Preventive measure of endo and ecto – parasitic infestation	1	1	25								
Dhenkanal	FW	OFC	FIS	Site selection & construction of different type pond	1	1	25								
Dhenkanal	FW	OFC	FIS	Identification of different type of cultivable fishes	1	1	25								
Dhenkanal	FW	OFC	FIS	Culture technique of Java punti with IMC	1	1	25								
Dhenkanal	FW	OFC	FIS	Use of different probiotic & other function	1	1	25								
Dhenkanal	FW	OFC	FIS	Disease management in composite pisciculture	1	1	25								
Dhenkanal	FW	OFC	FIS	Feeding management in pisciculture	1	1	25								
Dhenkanal	FW	ONC	FIS	Pond preparation before stocking of fish in old tank	1	2	25								
Dhenkanal	FW	ONC	FIS	Culture technique of spawn to fry	1	2	25								
Dhenkanal	FW	ONC	FIS	Fish cum prawn culture	1	2	25								
Dhenkanal	FW	ONC	FIS	Integrated fish farming	1	2	25								
Dhenkanal	RY	ONC	HOV	Establishment of Horticulture base enterprise.	1	2	25								
Dhenkanal	RY	ONC	HOO	Raising of quality flower seedling	1	2	15								
Dhenkanal	RY	ONC	PLP	Use of Pheromone Trap & bio pesticide in IPM practices	1	2	15								
Dhenkanal	RY	ONC	AEG	Entrepreneurship development through famam mechanization	1	2	15								
Dhenkanal	RY	ONC	AEG	Cost economics of Agro	1	2	15								

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8		9	10	11	12	13	14	15	16
				Service Centre Model											
Dhenkanal	RY	ONC	WOE	Orientation of RY on economics of Agricultural enterprises	1	2	15								
Dhenkanal	RY	ONC	AGF	Preparation of shellac and button lac from seed lac	1	2	20								
Dhenkanal	RY	ONC	AGF	Preparation of jigit (incense stick binder) from medha bark	1	2	20								
Dhenkanal	RY	ONC	AGF	Preparation of phenol free drink from cashew thalamus (mango)	1	2	20								
Dhenkanal	RY	ONC	FIS	Stunted fingerlings production	1	2	15								
Dhenkanal	RY	ONC	FIS	Ornamental fish breeding & culture	1	2	15								
Dhenkanal	IS	ONC	HOS	Protected cultivation of vegetables	1	2	15								
Dhenkanal	IS	ONC	HOF	Fertilizer management in a newly developed fruit orchard	1	2	15								
Dhenkanal	IS	ONC	PLP	Recent development in Eco friendly Pest management concept	1	2	15								
Dhenkanal	IS	ONC	PLP	Use of Bioagent & botanicals for pest & disease management	1	2	15								
Dhenkanal	IS	ONC	AEG	Water Management in Horticultural crops	1	2	15								
Dhenkanal	IS	ONC	WOE	Women empowerment through marked led extension	1	2	15								
Dhenkanal	IS	ONC	AGF	Chemical treatment wood	1	2	15								
Dhenkanal	IS	ONC	AGF	Biomass estimate of standing tree	1	2	15								
Dhenkanal	IS	ONC	AGF	Physical and chemical properties of fly ash	1	2	15								
Dhenkanal	IS	ONC	FIS	Inter cropping of Java punti with IMC	1	2	15								

**Table 5.3.** Details of Vocational training programmes for Rural Youth to be conducted by the KVKs

Name of KVK	Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)	Number of Beneficiaries					
					SC		ST		Others	
					M	F	M	F	M	F
Dhenkanal	Organic farming	Crop	ICM	06						
Dhenkanal	Bee keeping	Enterprise	Income generation	07						
Dhenkanal	Operation & maintenance of harvesting	Paddy	Farm	05						

	implements used in Paddy cultivation		Mechanization							
Dhenkanal	Seed production technique of IMC	Enterprise	Income generation	05						
Dhenkanal	Value addition in sweet potato, groundnut, jack fruit	Enterprise	Value addition	06						
Dhenkanal	Commercial mushroom production	Enterprise	Income generation	06						

**Table 5.4. Details of training programme to be conducted for Livelihood Security in rural areas by the KVKs**

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

**Table 5.5. Sponsored Training Programmes**

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/R Y/IS)	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		
Dhenkanal														

**Table 5.6 Training Programmes for Panchayatiraj Institutions Office-bearers & members**

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/R Y/IS)	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		
Dhenkanal														

**Table 5.7 Evaluation/Follow up & Impact of the training programmes conducted by the KVK (all types of trainings)**

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Dhenkanal									



## 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	20										
Dhenkanal	Kisan Mela	02										
Dhenkanal	Kisan Ghosthi	10										
Dhenkanal	Exhibition	08										
Dhenkanal	Film Show	15										
Dhenkanal	Method Demonstrations	10										
Dhenkanal	Farmers Seminar	01										
Dhenkanal	Workshop	01										
Dhenkanal	Group meetings	30										
Dhenkanal	Lectures delivered as resource persons	30										
Dhenkanal	Newspaper coverage	10										
Dhenkanal	Radio talks	05										
Dhenkanal	TV talks	06										
Dhenkanal	Popular Articles	10										
Dhenkanal	Extension Literature	12										
Dhenkanal	Farm Advisory Services	150										
Dhenkanal	Scientific visit to farmers field	180										
Dhenkanal	Farmers Visit to KVK	275										
Dhenkanal	Diagnostic Visits	36										
Dhenkanal	Exposure Visits	05										
Dhenkanal	Ex-trainees Sammelan	04										
Dhenkanal	Soil Health Camp	01										
Dhenkanal	Animal Health Camp	01										
Dhenkanal	Agri Mobile Clinic	04										
Dhenkanal	Soil Test Campaigns	01										
Dhenkanal	Farm Science Club conveners meet	04										
Dhenkanal	Self Help Group conveners meetings	04										

## 7. Production and supply of Technological products

### 7.1 SEED production

KVK Name	Major group/class	Crop	Variety	Type of produce (for Seed produced type here SD; For Planting Material type here PM)	Quantity	Unit for quantity of produces (qtl for SD and Nos for PM)	Value (Rs.)	Provided to No. of Farmers
Dhenkanal	Cereals	Paddy	Pratikhya	SD	180	Quintal	244800	200
Dhenkanal	Enterprise	Mushroom	V.volvaceae P.sajarcaju		2.0 1.0	qtl qtl	10000 5000	100

### 7.2 Planting Material production

KVK Name	Major group/class	Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
						Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Dhenkanal	Vegetables	Brinjal	July 1 <sup>st</sup> week, Sept 1 <sup>st</sup> week	Sept, 1 <sup>st</sup> week Oct, 1 <sup>st</sup> week	100m <sup>2</sup>	Utkal Tarini, Arka neelanchal syama, 132	Seedling	30000	6000	15000	
Dhenkanal	Vegetables	Onion	July 1 <sup>st</sup> week, Sept 1 <sup>st</sup> week	Sept, 1 <sup>st</sup> week Oct, 1 <sup>st</sup> week	100m <sup>2</sup>	Bhima raj, bhima suvra, bhima super	Seedling	250000	50000	125000	
Dhenkanal	Vegetables	Chilli	Jan 1 <sup>st</sup> week July 1 <sup>st</sup> week	Feb, 1 <sup>st</sup> week Aug, 1 <sup>st</sup> week	100m <sup>2</sup>	Kanchi, Utkal ragini	Seedling	20000	4000	10000	
Dhenkanal	Fruit	Papaya	April 3 <sup>rd</sup>	July 3 <sup>rd</sup>	100m <sup>2</sup>	CHD, Pusha Nanha	Seedling	20000	200000	300000	
Dhenkanal	Tree species	Sisu	April 3 <sup>rd</sup>	July 3 <sup>rd</sup>	100m <sup>2</sup>	Local	Seedling	500	1250	3000	
Dhenkanal	Tree species	Eucalypt	April 3 <sup>rd</sup>	July 3 <sup>rd</sup>	100m <sup>2</sup>	Local	Seedling	1000	2500	6000	
Dhenkanal	Tree species	Bamboo	April 3 <sup>rd</sup> week	July 3 <sup>rd</sup>	100m <sup>2</sup>	Local	Seedling	500	1250	2500	
Dhenkanal	Tree species	Amla	April 3 <sup>rd</sup> week	July 3 <sup>rd</sup> week	100m <sup>2</sup>	Local	Seedling	300	750	1800	
Dhenkanal	Tree species	Camphor	April 1 <sup>st</sup> week	Aug. 1 <sup>st</sup> week	100m <sup>2</sup>	Dehradun	Seedling	300	1500	3000	
Dhenkanal	Tree species	Drumstick	April 4 <sup>th</sup> week	July 1 <sup>st</sup> week	100m <sup>2</sup>	PKM-1	Seedling	500	1500	4000	
Dhenkanal	Tree species	Misc.	April 1 <sup>st</sup> week	Aug. 4 <sup>th</sup> week	100m <sup>2</sup>		Seedling	900	2250	4500	

### 7.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

KVK Name	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
Dhenkanal	BIOAGENTS				
Dhenkanal	BIOFERTILIZERS	10qtl	1750	5000	
Dhenkanal	BIO PESTICIDES				

### 7.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
Dhenkanal	Poultry	RIR	21 days old chick	200	5000	8000	
Dhenkanal	Fisheries	Carp	Fry	4 lakh	2800	12000	

## 8. Activities of Soil and Water Testing Laboratory

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

Year of establishment : - 2004-05

### 8.1 Details of soil & water samples analyzed so far :

KVK Name	Type	No. of Samples	No. of Farmers	No. of Villages	Amount released	Resources to be generated
Dhenkanal	Soil Sample	1000	500	40		
Dhenkanal	Water Sample	50	50	30		

## 9. Rainwater Harvesting, if available.

### Training programmes to be conducted by using Rainwater Harvesting Demonstration Unit

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

## 10. Kisan Mobile Advisory (KVK-KMA)

KVK Name	No. of messages to be sent	No. of beneficiaries		Major recommendations
		Farmers	Ext. Pers.	
Dhenkanal	150	4900	100	ICM, IPM, INM, IDM, Farm mechanization, Irrigation water management, value addition, drudgery reduction, mushroom cultivation, fish farming, Bamboo cultivation, management of nursery

## 11. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Dhenkanal	7.8.2015	25	
Dhenkanal	10.12.15	25	

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

### 12.1 KVK Newsletters

KVK Name	Date of start	Periodicity	Number of copies to be printed	Number of copies to be distributed
Dhenkanal	April, 2014	Quarterly	500	500

### 12.2 Details of Electronic Media to be Produced

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
Dhenkanal	CD	ATMA	1

### 12.3 PUBLICATIONS

Category	Number	Date of start	Periodicity	Number of copies to be printed	Number of copies to be distributed
Research Paper	01	Type	Title	Author's name	Number of copies
Technical bulletins	04				
Technical reports	2				
Popular article	06				
News paper coverage	10				
Training calendar	1				
Others (pl. specify)					

### 13. 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	ATMA					
Dhenkanal	Minor irrigation					
Dhenkanal	Watershed					
Dhenkanal	RKVY					
Dhenkanal	DRDA					
Dhenkanal	Zila Panchyat					
Dhenkanal	Seed Village					
Dhenkanal	Climate Change					
Dhenkanal	BGREI					

### 14. Utilization of Farmers Hostel.

Accommodation available (No. of beds):

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)
Dhenkanal	June, August, September, November, December, February & March	2015	Income generation activity, integrated fish farming, Seedling production, Bee keeping, agro Service centre	65	160	81	

### 15. Utilization of Staff Quarters.

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
Dhenkanal	2010	2011	06	-	

### 16. Details of KVK Agro-technological Park –

#### a) Have you prepared layout plan, where sent?

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

#### b) Details about Technology Park

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

**c). Crop Cafeteria-**

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1	Ginger	1
2	Brinjal	1
3	Chilli	1
4	Bitter gourd	1
5	Cashewnut	1
6	Agroshednet	1
7	Mushroom unit	1
8	Poultry unit	1
9	Vermicompost units	1
10	Fish fry	1
11	Ducklings	1
12	Azolla	1
13	Nutritional Garden	1
14	Medicinal garden	1

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

Sr. No.	Name of kvk	Name of Farm Innovator	Name of the Innovation	Address of the farmer with Mobile No.
1	Dhenkanal	Chaitanya Baske	Vegetable cultivation	Majhisahi, Dhenkanal,9777156293
2	Dhenkanal	Ghanashyam padhy	High tech farming	Bhgirathipur, Dhenkanal 9437388555
3	Dhenkanal	Chakradhara Maharana	Lac craft	Gondia, 8895475270
4	Dhenkanal	Dularam Baske	Production of Para Rubber	Majhisahi, Dhenkanal, 9178429568
5	Dhenkanal	Tinka Panda	Cashew processing	Ostapala,,Dhenkanal 9437231969
6	Dhenkanal	Prabesh Kumar Jena	IFS	Gobindaprasad, Odapada, 7504954390
7	Dhenkanal	Tapan Panda	Yearling production	Analabareni, Kamakhyanagar,9861176706
8	Dhenkanal	Jhunubala sahu	Mushroom	Lambodarpur, Dhenkanal 9861039964
9	Dhenkanal	Sarojini Sahu	Value addition	Khandabandha, Gondia,9776759493
10	Dhenkanal	Prem Sankar Mishra	Farm Mechanization	Katasamada, Dhenkanal ,9437094042

**18. KVK interaction with progressive farmers-** each KVK had already sent a list of 100 progressive farmers to the ZPD, Zone VII, Jabalpur.

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers to be participated
1	1 <sup>st</sup> May	15
2	25 <sup>th</sup> July	15
3	24 <sup>th</sup> August	15
4	25 <sup>th</sup> Sept	15
5	16 <sup>th</sup> Oct	15
6	28 <sup>th</sup> Nov	15
7	16 <sup>th</sup> Dec	15
8	16 <sup>th</sup> Jan	15
9	13 <sup>th</sup> Feb	15
10	25 <sup>th</sup> March	15

### 19. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Dhenkanal	4	4	15	35

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, Awareness programmes etc.

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

Sr. No.	Name of crop under Technology demonstration	Area under the programme	No. of Extension Activities	Remarks / Lessons learnt

### 21. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1	Jajpur and Angul	Technology, workshop, ex trainee samelan and meeting	

## 22. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	Remarks
Dhenkanal	Vice Chancellor, OUAT	01.05.15	
Dhenkanal	Dean Extension Education, OUAT	25.07.2015	
Dhenkanal	Dean Extension Education, OUAT	10.12.2015	

## 23. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Dhenkanal	28.06.2011	11	-

## 24. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals
1	Dhenkanal		

## 25. E-CONNECTIVITY (ERNET Lab)

Name of KVK	Number and Date of Lecture delivered from KVK Hub				No of lectors organized by KVK	Brief achievements	Remarks
	Date	No of Staff attended	No of call received from Hub	No of Call mate to Hub by KVK			
Dhenkanal							

## 26. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Dhenkanal	Gosthies	4	120	Paddy, Groundnut, fishery
Dhenkanal	Lectures organized	5	250	INM, IPM, Value
Dhenkanal	Exhibition	6	300	Enterprises and value addition
Dhenkanal	Film show	6	300	Crop and livestock
Dhenkanal	Fair	1	100	Agricultural technology
Dhenkanal	Farm Visit	8	80	Horticulture
Dhenkanal	Diagnostic Practical's	2	100	Liming, seed treatment, soil collection, repair of tractor, feeding to fish
Dhenkanal	Distribution of Literature (No.)	8	350	Agricultural technology
Dhenkanal	Distribution of Planting materials (No.)	10000	100	Vegetables
Dhenkanal	Bio Product distribution (Kg)	1000	10	Vermicompost
Dhenkanal	Bio Fertilizers (q)			
Dhenkanal	Distribution of fingerlings (No)	20000	10	Fish(IMC)
Dhenkanal	Distribution of Livestock specimen (No.)	100	10	Banaraja
Dhenkanal	Total number of farmers visited the technology week	6	300	Soil and Animal health camp, etc



## 27. INTERVENTIONS ON DROUGHT MITIGATION

### Introduction of alternate crops/varieties

Sl. No.	Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries
1	Dhenkanal	Gnut	05	25
2	Dhenkanal	Arhar	05	25

### Major area coverage under alternate crops/varieties

Sl. No.	Name of KVK	Crops	Area (ha)	Number of beneficiaries
1	Dhenkanal	Oilseeds	5.0	38
2	Dhenkanal	Pulses	5.0	25
3	Dhenkanal	Cereals	5.0	15
4	Dhenkanal	Vegetable crops	2.0	20
5	Dhenkanal	Tuber crops	1.0	5
6	Dhenkanal	Fruits	1.0	5
7	Dhenkanal	Spices		
8	Dhenkanal	Cotton		
	Dhenkanal	<b>Total</b>	<b>19.0</b>	<b>108</b>

### Farmers-scientists interaction on livestock management

Sl. No.	Name of KVK	Livestock components	Number of interactions	No. of participants
1	Dhenkanal	Dairy Management	3	75
2	Dhenkanal	Disease management	1	50
3	Dhenkanal	Feed and fodder technology	3	75
4	Dhenkanal	Poultry management	2	50

### Animal health camps to be organized

Name of KVK	Number of camps	No. of animals	No. of farmers
Dhenkanal	01	100	50

### Seed distribution in drought hit states

Name of KVK	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Dhenkanal	Groundnut	3	5	25
Dhenkanal	vegetables	0.5	5	10

### Seedlings and Saplings to be distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
<b>Seedlings</b>				
Dhenkanal	Brinjal	1000	0.1	2
Dhenkanal	Chilli	1000	0.05	2
Dhenkanal	Ginger	1000	0.25	2
<b>Saplings</b>				
Dhenkanal	Banana	500	0.6	5
Dhenkanal	Mango	100	2	4
Dhenkanal	Teak, Eucalyptus	600	1	5

### Bio-control Agents

Name of KVK	Bio-control Agents	Quantity (q)	Coverage of Area (ha)	No. of farmers
Dhenkanal	<i>Trichoderma Viridae</i>	10	2.0	10

### Bio-Fertilizer

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

### Vermis Produced

Name of KVK	Vermis Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers
Dhenkanal	<i>E foetida</i>	0.04	-	1
Dhenkanal	Vermicompost	20	-	20

### Large scale adoption of resource conservation technologies

Name of KVK	Crops/cultivars and of resource conservation technologies introduced	Area (ha)	Number of farmers
Dhenkanal	Cultivation of fruits	25	125
Dhenkanal	Drought tolerant crop and sort duration variety	100	220
Dhenkanal	Integrated Crop Management	150	400
Dhenkanal	weed management in groundnut	1200	2500

### Awareness Campaign

Name of KVK	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers
Dhenkanal	20	500	6	180	20	600	1	500	3	150	06	240
<b>Total</b>	20	500	6	180	20	600	1	500	3	150	06	240

## 28. Proposal of NICRA

### 1. Technologies to be Demonstrated

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

### 2. Proposed Extension Activities in NICRA Village

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

### 3. Proposed Training Activities in NICRA Village

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

### 4. Proposed Activities for Fodder Bank

Established (Years)	Capacity	Current Status

### 5. Proposed Activities for Seed Bank

Established (Years)	Capacity	Current Status

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

Name of Representative/Officer	Designation	Date of Visit

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

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

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

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

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

### 31. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Dhenkanal	Progressive farmer	Farmer	KVK & OUAT	

### 32. Case study / Success Story to be developed –

Sr. no.	Name of KVK	No. of success stories	No. of case studies
1	Dhenkanal	10	05

**Two best only in the following format:** Name of the KVK, **TITLE, Introduction**, KVK intervention, Output, Outcome, Impact

**33. Well labeled Photographs for each activity of the KVK (Soft copies as well as hard copy- specially for all OFT along with the problem) {attached in Annexure-I}**