

**ANNUAL ACTION PLAN**  
*(April 2014 - March 2015)*

***KVK, DHENKANAL***

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

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**PERIOD – April 2014 to March, 2015**  
**Summary of the activities**

KVK Name	Activity	Target	
		Number of activity	No. of farmers/ beneficiaries
Dhenkanal	OFTs	23	222
Dhenkanal	FLDs – Oilseeds (activity in ha)	10(2)	50
Dhenkanal	FLDs – Pulses (activity in ha)	-	-
Dhenkanal	FLDs – Other than Oilseed and pulse crops( ha)	9.2 (20)	91
Dhenkanal	FLDs – Other than Crops (activity in no. of Unit/Enterprise)	16(3)	35
Dhenkanal	Training-Farmers and farm women	66	1650
Dhenkanal	Training-Rural youths	13	195
Dhenkanal	Training- Extension functionaries	10	155
Dhenkanal	Extension Activities	595	5200
Dhenkanal	Seed Production (Number of activity as seeds in quintal)	01	150qtl
Dhenkanal	Planting material ((Number of activity as quantity of planting material in quintal) Mushroom spawn bottles	02 (400 nos.)	80
Dhenkanal	Seedling Production (Number of activity as number of seedlings in numbers)	15000	150
Dhenkanal	Sapling Production (Number of activity as number of sapling in numbers)	15000	150
Dhenkanal	Other Bio- products (No. of quantity)Mushroom Vermicompost	3.0qtl 10qtl	100 100
Dhenkanal	Live stock products ,Poultry chicks Duckling Fish fry Stunted Yearling	1000 200 100000 10000	100 10 20 10
Dhenkanal	Activities of Soil and Water Testing Laboratory	1000	500
Dhenkanal	Rainwater Harvesting System	-	-
Dhenkanal	Kisan Mobile Advisory (KVK-KMA)	150	1000
Dhenkanal	SAC Meeting (Date & no. of core/ official members)	02	44
Dhenkanal	Literature to be Developed/Published	10	5000
Dhenkanal	Convergence programmes / Sponsored programmes	05	200

KVK Name	Activity	Target	
		Number of activity	No. of farmers/ beneficiaries
Dhenkanal	Utilization of Farmers Hostel	20	300
Dhenkanal	Utilization of Staff Quarters	05	05
Dhenkanal	Details of KVK Agro-technological Park	01	550
Dhenkanal	Crop Cafeteria-	01	550
Dhenkanal	Farm Innovators- ( 10 farm innovators from the District)	10	10
Dhenkanal	Status of Revolving Funds	01	200
Dhenkanal	Awards and Recognitions	10	10
Dhenkanal	Case study / Success Story to be developed	10	10
Dhenkanal	KVK Progressive Farmers interaction	10	150
Dhenkanal	Outreach of KVK in the District (No. of blocks, no. of villages)	8/40	2000
Dhenkanal	Technology Demonstration under Tribal Sub Plan	-	-
Dhenkanal	KVK Ring	01	03
Dhenkanal	Important visitors to KVK	15	15
Dhenkanal	Status of KVK Website	01	250
Dhenkanal	Status of RTI	-	-
Dhenkanal	E-connectivity	-	-
Dhenkanal	Details of Technology Week Celebrations	01	300
Dhenkanal	Interventions on Drought Mitigation	05	50
Dhenkanal	Proposal of NAIP	-	-
Dhenkanal	Proposal of NICRA	-	-
Dhenkanal	Well labeled photographs	500	250
Dhenkanal	Other Activities	-	-

# 1. GENERAL INFORMATION

## 1.1. Staff Position (as on 30.6.2014)

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	21390+6000	02.12.13	Permanent	Gen
Dhenkanal	Subject Matter Specialist1	Smt. S. Pal	Home Science	M.Phil	Home Science	15,600-39,100	21390+6000	15.11.07	Temporary	Gen
Dhenkanal	Subject Matter Specialist2	Sri Sidhartha Kar	Horticulture	MSc(Ag)	Horticulture	15,600-39,100	18320+6000	01.10.09	Temporary	Gen
Dhenkanal	Subject Matter Specialist3	Sri D Panda	Entomology	M.Sc. (Ag.)	Entomology	15,600-39,100	21390/+6000	06.04.11	Temporary	Gen
Dhenkanal	Subject Matter Specialist4	Smt.D. Paramjita	Agril.Engg	MTech	Soil & Water Conservation Engg	15,600-39,100	17610+6000	07.12.12	Temporary	Gen
Dhenkanal	Subject Matter Specialist5	Sri M.Mohanty	Forestry	MSc (Forestry)	Forestry	15,600-39,100	21390+6000	15.12.12	Temporary	Gen
Dhenkanal	Subject Matter Specialist6	Smt. M. Prusty	Soil Science	M. Sc. Soil Science	Soil Science	15,600-39,100	18320+6000	03.03.14	Temporary	Gen
Dhenkanal	Programme Assistant	Sri. Jashobanta Sahoo	fishery	BFSc.	Fishery	9300-34,800	12930+4200	04.10.09	Temporary	OBC
Dhenkanal	Farm Manager	Sri. Manoj Kumar Pradhan	Seed Technology	Msc(Ag)	Seed Technology	9300-34,800	12430+4200	03.07.12	Temporary	Gen
Dhenkanal	Computer Programmer	Sri. G. D. Moharana	Computer	MCA	Computer	9300-34,800	12930+4200	18.06.12	Temporary	Gen
Dhenkanal	Accountant / superintendent	Sri. K. R. Mohanty	S.O.	BA		9300-34,800	12930+4200	14.02.14	Temporary	Gen
Dhenkanal	Stenographer	Sri G.R. Das	-	B.A.	-	5,200-20,200	6980+2400/-	08.01.07	Temporary	Gen
Dhenkanal	Driver	Sri D. K. Pradhan	-	UP	-	5,200-20,200	6600+1900/-	11.07.14	Temporary	Gen
Dhenkanal	Driver	Sri N.M. Sahoo	-	UP	-	5,200-20,200	6600+1900/-	25.07.07	Temporary	Gen
Dhenkanal	Supporting staff	Smt. Ahalya Baral	-	UP	-	4440-7440	6480 + 1300	28.07.08	Temporary	Gen
Dhenkanal	Supporting staff	Sri Kumar Beja	-	UP	-	4440-7440	6800 + 1300	07.10.13	Temporary	SC

**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**

<b>Name of the crop</b>	<b>Area in ha</b>	<b>Production in (MT)</b>	<b>Yield q/ha</b>
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 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	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	
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	
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	
Dhenkanal	No assured irrigation round the year for taking of different crops	Through PRA tools and Discussion with the group of farmer	
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	
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	
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	
Dhenkanal	Distress sale of horticultural produces	Through PRA tools and Discussion with the group of farmer	
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	
Dhenkanal	Low milk yield of desi cows	Through PRA tools and Discussion with the group of farmer	
Dhenkanal	Low body weight of desi birds	Through PRA tools and Discussion with the group of farmer	
Dhenkanal	Under utilization of paddy straw	Through PRA tools and Discussion with the group of farmer	
Dhenkanal	Under utilization of oyster mushroom cultivation	Through PRA tools and Discussion with the group of farmer	
Dhenkanal	Improper utilization of family labour and home stead lands	Through PRA tools and Discussion with the group of farmer	
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	
Dhenkanal	Shortage of quality timbers	Through PRA tools and Discussion with the group of farmer	
Dhenkanal	Unutilization of Waste land	Through PRA tools and Discussion with the group of farmer	
Dhenkanal	Shortage of quality timbers, unutilized farm bunds	Through PRA tools and Discussion with the group of farmer	
Dhenkanal	Lack of quality planting material of forest species	Through PRA tools and Discussion with the group of farmer	



## 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 2014-16	Low income due lack of management resources	Assessment	ICM	Cowpea-Cabbage-coriander	Irrigated upland, veg – veg system	0.4 ha	06	Assessment of horti-based Farming System Model				
Dhenkanal	Kharif 2014	Low return from upland rice	Assessment	ICM	Onion	Upland, rainfed / irrigate	0.4 ha	5	Assessment of kharif onion varieties				
Dhenkanal	Rabi 2014-15	Low yield and return due to wilting	Assessment	Varietal evaluation	Brinjal	Irrigated medium land	0.4 ha	6	Assessment of brinjal varieties				
Dhenkanal	Kharif 2014	Low profit per unit area due to less number of plants	Assessment	Production and management	Banana	Irrigated medium land	0.4 ha	6	Assessment of Planting geometry in banana (4:9)				
Dhenkanal	Rabi 2014-15	Less fruit and low yield	Assessment	ICM	Bitter gourd	Irrigated medium land, paddy veg system	0.4 ha	6	Assessment of plant growth regulator (PGR) on bitter gourd				
Dhenkanal	Kharif 2014	Yield loss due to heavy infestation of pod borer	Assessment	IPM	Pigeon pea	Rainfed Medium land	1 ha	5	Assessment of IPM in pod borer management in pigeon pea				
Dhenkanal	Rabi 2014-15	Low yield of cucumber due to high incidence of downey mildew	Assessment	IDM	Cucumber	Rainfed, upland, paddy – veg	1 ha	6	Assessment of carbendazim with mancozeb for controlling downey mildew of cucumber				

Dhenkanal	Kharif 2014	Low yield of groundnut due to high incidence of collar rot	Assessment	IDM	Groundnut	Rainfed, upland	1 ha	7	Assessment of collar rot management in groundnut				
Dhenkanal	Rabi 2014-15	Low yield of summer paddy due to high infestation of stem borer	Assessment	IPM	Paddy	Irrigated medium land	1 ha	6	Assessment of broad spectrum pesticide and bio agent for controlling stem borer in summer paddy				
Dhenkanal	Rabi 2014-15	Low yield of cowpea due to high infestation of aphids	Assessment	IPM	Cowpea	Paddy cowpea cropping system	1.0 ha	6	Assessment of aphid management in cowpea in rainfed cowpea cropping system				
Dhenkanal	Rabi 2014-15	Low yield in sesamum due to improper nutrient management	Assessment	INM	Sesamum	Irrigated upland	0.4 ha	7	Assessment of Integrated nutrient management in sesamum				
Dhenkanal	Kharif 2014	Low yield and poor quality curd formation	Assessment	INM	Cauliflower	Irrigated, upland	0.4 ha	6	Assessment of biofertilizer management in cauliflower				
Dhenkanal	Rabi 2014-15	Small head size and low yield	Assessment	INM	Cabbage	Irrigated upland	0.4 ha	5	Assessment of application of vermicompost and boron in cabbage				
Dhenkanal	Rabi 2014-15	Low yield due to imbalanced fertilizer application	Assessment	INM	Greengram	Irrigated, medium land, rice green gram system	0.4 ha	5	Assessment of foliar spray of DAP and borax in green gram				
Dhenkanal	Kharif 2014	Less kernel produced by traditional method (5kg seed / man day)	Assessment	Value addition	Mahua seed decorticator	Rainfed upland	8 nos	8	Assessment of manually operated mahua seed decorticator				
Dhenkanal	Rabi 2014-15	Incorporation of partially decomposed FYM in excess into mother bed, excess watering and full	Assessment	Agro forestry	Eucalyptus	Rainfed, upland	0.4 ha	8	Assessment of systemic fungicide along with cultural practices to check				

		time shade leading to withering of seedlings at collar region and hence large scale casualty							damping off eucalypt mother bed				
Dhenkanal	Kharif 2014	Less biomass i.e. grain, wood and pasture production from a unit of land	Assessment	Agro forestry	Sissu, mangium, hybrid napier & arhar	Rainfed upland	0.4 ha	8	Assessment of agri-silvipastoral system for rainfed uplands				
Dhenkanal	Rabi 2014-15	Sprouting of mal formed shoots, susceptible to wind, overall less biomass production	Assessment	Agro forestry	Eucalyptus	Rainfed upland	0.4 ha	8	Assessment of coppicing technique in biomass production of eucalypt crop				
Dhenkanal	Rabi 2014-15	High infestation of storage pest in pulse	Assessment	Post harvest management	Pulse	Homestead	5 nos	13	Assessment of TNAU insect trap for safe storage of pulse				
Dhenkanal	Kharif 2014	Non availability of green fodder and excess cost of commercial feed	Assessment	Nutritional management	Azolla	Home stead	13 nos	13	Assessment of Azolla as supplementary feed for milching cow				
Dhenkanal	Rabi 2014-15	Non availability of processed stone apple products in off season	Assessment	Value addition	Stone apple	Home stead	13	13	Assessment of Preparation of RTS from Raw Stone Apple				
Dhenkanal	Rabi 2014-15	Low income due to low yield	Assessment	Income generation	Oyster mushroom	Home stead	130 bags	13	Assessment of Oyster Mushroom Var. <i>Hypsizygous ulmarius</i>				
Dhenkanal	Kharif 2014	High labour cost and time involved in manual random transplanting and line transplanting	Assessment	Farm Mechanization	Paddy	Rainfed upland / medium land	0.52 ha	13	Assessment of 8-row self propelled Rice Transplanter				
Dhenkanal	Kharif 2014	High labour intensive and cost involved in manual weeding	Assessment	Farm Mechanization	Paddy	Rainfed upland / medium land	0.52 ha	13	Assessment of Paddy Power Weedor (2 row)				
Dhenkanal	Rabi 2014-15	Low yield, disease infestation and scarcity of water throughout the cropping season	Assessment	Micro irrigation	Water melon	Irrigated upland	0.04 ha	1	Assessment of micro irrigation system in Watermelon				

Dhenkanal	Rabi 2014-15	High labour cost and more time involved in large area groundnut sowing	Assessment	Farm Mechanization	Groundnut	Irrigated medium land	0.52 ha	13	Assessment of Power Tiller operated 5-row seed cum fertilizer drill in sowing groundnut				
Dhenkanal	Kharif 2014	primary production is very less during winter	Assessment	INM	IMC	Small to medium tanks, perennial - intensive	1.5 ha	4	Assessment of efficacy of liquid micro nutrients in sustaining phytoplankton bloom during winter				
Dhenkanal	Kharif 2014	Three species IMC culture only	Assessment	Production & management	IMC	Small to medium tanks, perennial - intensive	1.5 ha	4	Assessment of intercropping Java Punti in three species IMC culture				
Dhenkanal	Kharif 2014	Low yield and return due to lack of awareness on modern technology	Assessment	Extension		Small to medium tanks		30	Assessment of impact of messages on Fishery innovations through KMA				

### 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> )		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> )				

### 3. Frontline Demonstrations

#### 3.1. Follow-up for results of FLDs implemented during previous years (upto 2013-14)

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	Paddy	IPM	Application of fipronil @2ml / lit for controlling stem borer in Rice	Training, leaflet, film show and demonstration	30	5500	4000
Dhenkanal	Cassava	Varietal Evaluation	Introduction of variety shree vishakham	Training and method demonstration	10	1500	150
Dhenkanal	Teasel gourd	Varietal Evaluation	Use of Improve variety Arka Neelanchal gourav and maintaining improve cultivation & sex ratio management	Training, leaflet and demonstration	20	1240	400
Dhenkanal	Onion	INM	Cultivation of high yielding variety of onion with application of Bio-fertiliser (Azospirillum+PSB+Bacillus thuriengenesis+Trichoderma viridae) @ 10 Kg./hactare as soil treatment and seedling dip method	Training and demonstration	9	1200	200
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
Dhenkanal	Paddy	Farm mechanization	Field capacity 0.12 ha/hr with seed rate 10 kg/ acre. Row to row distance 20 cm and plant to plant distance 7.5 cm labour requirement 3 MDS /ha.	Training, leaflet and demonstration	20	3000	300

### 3.2 Details of FLDs to be implemented during 2014-15

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				
							De mon s	Check		SC	ST	OBC	Others	Total
Dhenkanal	ICM	Tomato	Kharif 2014	Use of resistant and bumper yield Tomato variety swarna sampada with good keeping quality.	1.0	Swarna sampada							10	10
Dhenkanal	ICM	Broccoli	Rabi 2014-15	Use of Pusa KTS variety of Broccoli	1.0	Pusa KTS				4			6	10
Dhenkanal	ICM	Brinjal	Kharif – Rabi 2014	Use of PGR gibberellins @ 100 ppm before 15 days of flowering of Brinjal	1.0	Green star				3			7	10
Dhenkanal	IGA	Mango	Rabi 2014-15	Grading in three phase for local, for out site district and for out side state by using ethylene, fungicide and polypropylene packing	1.0	Amrapalli							10	10
Dhenkanal	IPM	Paddy	Kharif 2014	Spraying of Tricyclazole @ 1gm per lit of water controlling Blast in Paddy	1.0	Swarna							10	10
Dhenkanal	IPM	Paddy	Kharif 2014	Spraying of Buprofezin 25% SC @ 1.0 ml/litre twice at 15 days interval controlling BPH in Paddy	1.0	Swarna							10	10
Dhenkanal	IPM	Brinjal	Rabi 2014-15	Spraying of Flubendiamide 3.5ml / 15 lits of water in variety Bluestar for controlling Shoot & Fruit Borer in Brinjal	1.0	Bluestar							10	10
Dhenkanal	IPM	Sugarcane	Rabi 2014-15	use of tricho cards@ 50,000/ha for 5 to 6 times from the appearance of the borer for controlling early Shoot Borer in Sugarcane	1.0	CO-3							10	10

Dhenkanal	INM	Groundnut	Kharif 2014	Soil application of gypsum @250 kg / ha and spraying of borax @0.5% twice before flowering & pod formation stage with RDF as per soil test value In Groundnut	1.0	TMV-2								10	10
Dhenkanal	INM	Maize	Kharif 2014	Seed treatment with Rhizobium and spraying of ZnSo4 @0.2 % twice 30DAS and 60 DAS with RDF as per soil test value in Maize	1.0									10	10
Dhenkanal	INM	Onion	Rabi 2014-15	Sulphur @ 8 kg / ac and spraying of borax @0.5% during bulb formation stage with RDF as per soil test value In Onion	1.0	Agri Found Light Red								10	10
Dhenkanal	INM	Potato	Rabi 2014-15	Soil test based fertilizer recommendation and application of borax @ 10 kg / ha in Potato	1.0	Kufri jyoti								10	10
Dhenkanal	Agro forestry	Rose wood	Kharif 2014	Seedlings of Sissu will be raised in 500CC root trainer having vertical root training ribs filled up with prescribed mixture	1.0	Dalbergia Sissu					3			5	8
Dhenkanal	Agro forestry	Bamboo	Kharif 2014	Juvenile branches (<1 yr old) of Sundarkani Bamboo having 4-5 nodes will be layered in soil horizontally around monsoon	1.0	Bambusa vulgaris					2	2		4	8
Dhenkanal	Agro forestry	Kusmi Lac	Kharif 2014	Brood lac (10g) will be inoculated in 2 year old, shoots of Flemingia semilata followed by prescribed culture practices	1.0	Aghani Crop					2	1		5	8
Dhenkanal	Agro forestry	Sissu	Rabi 2014-15	Elite seedlings of D. sissu will be planted at 3x3 spacing with proper tending operations	1.0	Dalbergia sissu					4			4	8
Dhenkanal	Agro forestry	Kusmi lac	Rabi 2014-15	Brood lac @ 15g per 1 m length branch will be inoculated in kusum plant followed by prescribed cultural practices	1.0	Jethwi crop						13			13

Dhenkanal	Drudgery Reduction	Sugarcane	Kharif 2014	Sugarcane Bud Chipper 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	10 nos	<i>Sugarcane Bud Chipper</i>				2	3		5	10
Dhenkanal	IGA	Livestock	Rabi 2014-15	Backyard rearing of poultry for farm women, 150 to 180 eggs / yr, 3 to 4 kg meat/ yr	200 nos	<i>Poultry-Palli Raja</i>				8	5		7	20
Dhenkanal	Value Addition	Groundnut	Rabi 2014-15	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	10 nos	<i>Local</i>				2			8	10
Dhenkanal	IGA	Vegetables	Rabi 2014-15	Temp. of zero energy cool chamber remains within 10 to 15 degree centigrade in which the self life of leafy vegetables up to 3days,other veg.-5days, potatoes-52days, mango-8days; Length-165cm, breadth-115cm, height-67.5cm with a cavity of 7.5cm	2 nos	<i>Vegetables</i>							2	2
Dhenkanal	ICM	Groundnut	Kharif 2014	Cultivation of groundnut var. Devi with all package of practices	5.0	<i>Devi</i>				9	5	11		25
Dhenkanal	ICM	Arhar	Kharif 2014	Cultivation of Arhar var. Asha with all package of practices	5.0	<i>Asha</i>				4		21		25
Dhenkanal	ICM	Greengram	Rabi 2014-15	Cultivation of Greengram var. Durga with all package of practices	5.0	<i>12</i>						12		12
Dhenkanal	ICM	Seasamum	Rabi 2014-15	Cultivation of Sesamum var. Prachi with all package of practices	5.0	<i>Prachi</i>						12		12



Dhenkanal	Farm Mechanization	Paddy	Kharif 2014	It consists of 4 drums & line sowing in 8 rows in puddled levelled field with a spacing of 20 cm and working capacity of 0.12 ha/hr	1.0	Navin								5	5
Dhenkanal	Farm Mechanization	Paddy	Rabi 2014-15	Paddy Reaper has got a forward travel speed of 3.5km/hr , operates in dry field, cuts the paddy crop at a height of (10-30) cm from ground level with the help of reciprocating knife bar.	1.0	Swarna								5	5
Dhenkanal	Farm Mechanization	Groundnut	Rabi 2014-15	oscillating section of Power operated Groundnut Decorticator decorticates by rubbing action, the decorticated shells and cornels fallen down through the perforated concave sieves and the blower helps to separate the kernels from husk	1.0	Local								5	5
Dhenkanal	Farm Mechanization	Paddy	Rabi 2014-15	Use of Tractor operated Axial flow Thresher with threshing capacity (8-10) q/hr	1.0	Puja								5	5
Dhenkanal	Production & Management	IMC	Kharif 2014	Composite pisciculture with stocking ratio@ catla:rohu: medium carps:mrigal::3:2:3:2.	1.5	Labeo gonius, Labeo fimbriatus.								2	2
Dhenkanal	Production & Management	Alum	Kharif 2014	Alum treatment @ 4ppm just after usual lime treatment clears water turbidity	1.5	Commercial grade alum (Flocculants)								2	2
Dhenkanal	IGA	IMC & Prawn	Kharif 2014	Fresh water prawn @10000 nos / ha 1.5 in size with IMC	1.5	M.Rosenbergii								2	2

### 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

### 3.4 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Dhenkanal	Paddy	Field days	2	50	
		Farmers Training	4	50	
		Media coverage	1	-	
		Training for extension functionaries	1	15	
Dhenkanal	Cassava	Field days			
		Farmers Training	1	25	
		Media coverage	1	-	
		Training for extension functionaries		-	
Dhenkanal	Groundnut	Field days	2	50	
		Farmers Training	2	50	
		Media coverage	2	-	
		Training for extension functionaries	1	15	
Dhenkanal	Greengram	Field days			
		Farmers Training	1	25	
		Media coverage	1	-	
		Training for extension functionaries	-	-	
Dhenkanal	Onion	Field days			
		Farmers Training	2	50	
		Media coverage	1	-	
		Training for extension functionaries	1	15	
Dhenkanal	Teak	Field days	1	25	
		Farmers Training	1	25	
		Media coverage	1	-	
		Training for extension functionaries	1	15	
Dhenkanal	Salia Bamboo	Field days	1	25	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries	1	15	
Dhenkanal	Badi Bauns	Field days	1	25	
		Farmers Training	1	25	
		Media coverage	1	-	
		Training for extension functionaries	-	-	
Dhenkanal	Hybrid Napier	Field days	1	25	
		Farmers Training	1	25	
		Media coverage	1	-	
		Training for extension functionaries	-	-	
Dhenkanal	Seasamum	Field days	2	50	
		Farmers Training	1	25	
		Media coverage	1	-	

		Training for extension functionaries	-	-	
Dhenkanal	Fish	Field days	2	100	
		Farmers Training	11	275	
		Media coverage	1	-	
		Training for extension functionaries	1	15	
Dhenkanal	Banaraja	Field days			
		Farmers Training	1	25	
		Media coverage	-	-	
		Training for extension functionaries	-	-	

### 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	Cassava	Shreevisakham		05	1.0
2	Dhenkanal	Tissue culture Banana	Robusta		05	0.4
3	Dhenkanal	Onion	ALR		10	1.0
4	Dhenkanal	Groundnut	Smruti		25	5.0
5	Dhenkanal	Seasamum	Prachi		25	5.0

## 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

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

Name of KVK	Feedback basic of OFT on Technology Tested

## Abbreviation Used

FW	(A) Farmers & Farm Women	OFC	Off Campus Training Programme
RY	(B) Rural Youths	M	Male
IS	(C) Extension Personnel	F	Female
ONC	On Campus Training Programme	T	Total
<b>Thematic Areas for Training</b>			
CP	Crop Production	WOE	Home Science/Women empowerment
HOV	Horticulture – Vegetable Crops	AEG	Agril. Engineering
HOF	Horticulture-Fruits	PLP	Plant Protection
HOO	Horticulture- Ornamental Plants	FIS	Fisheries
HOP	Horticulture- Plantation crops	PIS	Production of Inputs at site
HOT	Horticulture- Tuber crops	CBD	Capacity Building and Group Dynamics
HOS	Horticulture- Spices	AGF	Agro-forestry
HOM	Horticulture- Medicinal and Aromatic Plants	OTH	Others
SFM	Soil Health and Fertility Management	RY	Rural Youth
LPM	Livestock Production and Management	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	6	7	8	9	10	11	12	13	14	15	16
Dhenkanal	FW	OFC	HOV	Production technology & commercial farming of organic vegetables	1	1	25								
Dhenkanal	FW	OFC	HOV	Cultivation of vegetable base cropping system	1	1	25								
Dhenkanal	FW	OFC	HOV	Training on off season vegetable farming	1	1	25								
Dhenkanal	FW	OFC	HOV	Production technology of Tuber crop	1	1	25								
Dhenkanal	FW	OFC	HOV	Cultivation of spices & Aromatic plants	1	1	25								
Dhenkanal	FW	OFC	HOV	Commercial cultivation of Onion	1	1	25								
Dhenkanal	FW	OFC	HOV	Post harvest handling & supply chain management of vegetables	1	1	25								
Dhenkanal	FW	OFC	HOV	Processing, Grading, Packaging & marketing of Watermelon	1	1	25								
Dhenkanal	FW	OFC	HOV	Management of Old Orchard	1	1	25								
Dhenkanal	FW	OFC	HOV	Establishment of nutritional horticulture Garden	1	1	25								
Dhenkanal	FW	OFC	HOV	Cultivation of Summer Vegetable	1	1	25								
Dhenkanal	FW	OFC	HOF	Protected cultivation of Marigold, Gerbera, Rose & Gladiolos	1	1	25								
Dhenkanal	FW	OFC	HOF	PHM of Fruit Crop	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	6	7	8	9	10	11	12	13	14	15	16
Dhenkanal	FW	OFC	PLP	Technology for treatment of seed & Seedlings for control of diseases	1	1	25								
Dhenkanal	FW	OFC	PLP	Integrated Pest Management in Paddy	1	1	25								
Dhenkanal	FW	ONC	PLP	Management of blast, sheath blight & BLB disease in Paddy	1	2	25								
Dhenkanal	FW	OFC	PLP	Integrated pest & disease management in Groundnut	1	1	25								
Dhenkanal	FW	OFC	PLP	Integrated pest & disease management in Arhar	1	1	25								
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		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	OFC	PLP	Pest & Disease management in Cole crops	1	1	25								
Dhenkanal	FW	OFC	PLP	Pest & Disease management in Papaya	1	1	25								
Dhenkanal	FW	ONC	PLP	Integrated Pest & Disease Management in Summer Paddy	1	2	25								
Dhenkanal	FW	OFC	SFM	Soil testing for nutrient management in crops	1	1	25								
Dhenkanal	FW	OFC	SFM	Acid soil management	1	1	25								
Dhenkanal	FW	OFC	SFM	Nutrient management in Maize	1	1	25								
Dhenkanal	FW	OFC	SFM	Nutrient management in Cauliflower	1	1	25								
Dhenkanal	FW	OFC	SFM	Nutrient management in Cabbage	1	1	25								
Dhenkanal	FW	OFC	SFM	Integrated Nutrient management in Potato	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	6	7	8	9	10	11	12	13	14	15	16
Dhenkanal	FW	OFC	SFM	Integrated Nutrient Management in Greengram	1	1	25								
Dhenkanal	FW	ONC	SFM	Nutrient management in Groundnut	1	2	25								
Dhenkanal	FW	ONC	SFM	Integrated nutrient management in Paddy	2	2	25								
Dhenkanal	FW	ONC	SFM	Nutrient Management in Onion	1	2	25								
Dhenkanal	FW	ONC	SFM	Integrated Nutrient Management in Sesamum	1	2	25								
Dhenkanal	FW	OFC	AGF	Selection of plus trees for quality seed collection	1	1	25								
Dhenkanal	FW	OFC	AGF	Establishment & management of CS Orchard	1	1	25								
Dhenkanal	FW	OFC	AGF	Establishment & management of SS Orchard	1	2	25								
Dhenkanal	FW	ONC	AGF	Preparation of Wood-cement composite boards	1	1	25								
Dhenkanal	FW	ONC	AGF	Management of Community forest	1	1	25								
Dhenkanal	FW	ONC	AGF	Therapeutic values of different herbs	1	1	25								
Dhenkanal	FW	ONC	AGF	Biomass quantification of different tree species	1	1	25								
Dhenkanal	FW	ONC	AGF	Preparation of different mixture for root trainer	1	1	25								
Dhenkanal	FW	ONC	AGF	Preparation of Bordeaux paste & mixture	1	1	25								
Dhenkanal	FW	ONC	AGF	Utility of Fly Ash for nursery & Plantation	1	1	25								
Dhenkanal	FW	ONC	AGF	Processing & Storage of Tree seeds	1	1	25								
Dhenkanal	FW	ONC	AGF	Nursery Management of Tree Species	1	2	25								
Dhenkanal	FW	OFC	FIS	Control of predator & weed fishes before stocking	1	1	25								
Dhenkanal	FW	OFC	FIS	Pond preparation before stocking	1	1	25								
Dhenkanal	FW	OFC	FIS	Culture technique of fry to fingerlings	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	6	7	8	9	10	11	12	13	14	15	16
Dhenkanal	FW	OFC	FIS	Post stocking management in composite Pisciculture	1	1	25								
Dhenkanal	FW	OFC	FIS	Pond management during Winter season	1	1	25								
Dhenkanal	FW	OFC	FIS	Water quality management in Pisciculture Tank	1	1	25								
Dhenkanal	FW	OFC	FIS	Use of low cost farm made feed during culture period	1	1	25								
Dhenkanal	FW	ONC	FIS	Fish cum Prawn culture – A Profitable Enterprise	1	1	25								
Dhenkanal	FW	ONC	FIS	Culture technique of spawn to fry	1	1	25								
Dhenkanal	FW	ONC	FIS	Disease management in composite Pisciculture	1	1	25								
Dhenkanal	FW	OFC	WOE	Use of locally made household food supplements to improve food security	1	1	25								
Dhenkanal	FW	OFC	WOE	Off season backyard vegetable cultivation	1	1	25								
Dhenkanal	FW	OFC	WOE	Operational procedure of low cost small tool and implements of drudgery reduction of Farm Women	1	1	25								
Dhenkanal	FW	OFC	WOE	Marketing strategies for SHGs	1	1	25								
Dhenkanal	FW	OFC	WOE	Household nutritional security through backyard farming	1	1	25								
Dhenkanal	FW	OFC	WOE	Cultivation of Azolla in backyard for Milching Cow	1	1	25								
Dhenkanal	FW	OFC	WOE	Backyard poultry for additional household income	1	1	25								
Dhenkanal	FW	ONC	WOE	Storage of vegetables in Zero Energy Cool Chamber to minimize post harvest loss	1	2	25								
Dhenkanal	FW	ONC	WOE	New strains of mushroom	1	2	25								
Dhenkanal	FW	ONC	WOE	Value addition of Stone apple	1	2	25								
Dhenkanal	FW	ONC	WOE	Value addition of Groundnut	1	2	25								
Dhenkanal	FW	ONC	WOE	Safe storage of food grains	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	6	7	8	9	10	11	12	13	14	15	16
Dhenkanal	FW	OFC	AEG	Performance of Paddy drum seeder in sowing of pre germinated Paddy seeds	1	1	25								
Dhenkanal	FW	OFC	AEG	Use of different types of low cost weeding implements in field crops and vegetable cultivation	1	1	25								
Dhenkanal	FW	OFC	AEG	Use of Paddy Reaper to solve labour & time	1	1	25								
Dhenkanal	FW	OFC	AEG	Operation & Maintenance of Axial Flow Thresher in Paddy Threshing	1	1	25								
Dhenkanal	FW	OFC	AEG	Micro irrigation in horticultural crops	1	1	25								
Dhenkanal	FW	OFC	AEG	Use of low cost harvesting & threshing implements for Groundnut	1	1	25								
Dhenkanal	FW	OFC	AEG	Land Preparation & Calibration of Seeddrill	1	1	25								
Dhenkanal	FW	ONC	AEG	Operation, maintenance & safe use of sprayer	1	2	25								
Dhenkanal	RY	ONC	HOV	Establishment of Horticulture base enterprises	1	2	15								
Dhenkanal	RY	ONC	HOV	Post harvest management of fruits	1	2	15								
Dhenkanal	RY	ONC	PLP	Use of Pheromone Trap & bio pesticide in IPM practices	1	2	15								
Dhenkanal	RY	ONC	AGF	Preparation of Shellac and button lac	1	2	15								
Dhenkanal	RY	ONC	AGF	Biomass estimate of standing & falling trees	1	2	15								
Dhenkanal	RY	ONC	SFM	Vermicomposting of Agriculture waste	1	2	15								
Dhenkanal	RY	ONC	SFM	Azolla Production Technology	1	2	15								
Dhenkanal	RY	ONC	WOE	Value addition of mushroom	1	3	15								
Dhenkanal	RY	ONC	WOE	Promotion of microenterprises for self employment	1	2	15								
Dhenkanal	RY	ONC	FIS	Yearling culture of IMC	1	2	15								
Dhenkanal	RY	ONC	FIS	Seed production of IMC	1	2	15								
Dhenkanal	IS	ONC	HOV	supply chain management of	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	6	7	8	9	10	11	12	13	14	15	16
				vegetables											
Dhenkanal	IS	ONC	HOF	Hi tech horticulture farming of fruits	1	2	15								
Dhenkanal	IS	ONC	SFM	Acid soil management	1	1	10								
Dhenkanal	IS	ONC	SFM	Micro nutrient Management in cole crops	1	1	10								
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	AGF	Water requirement and nutrient management in tree plantation	1	2	15								
Dhenkanal	IS	ONC	AGF	Preservation of secondary timber species by chemical treatment	1	2	15								
Dhenkanal	IS	ONC	WOE	Women friendly tools and implements for drudgery reduction of Farm Women	1	2	15								
Dhenkanal	IS	ONC	AEG	Water Management in Watermelon	1	2	15								
Dhenkanal	IS	ONC	FIS	Introduction of minor carp 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	Technique of MAT type seedling raising for using 8-row self propelled Rice Transplanter	Enterprise	Farm Mechanization	07							
Dhenkanal	VA of some NWFPS	Crop	Value Addition	08							
Dhenkanal	Bee keeping	Enterprise	Income generation	07							
Dhenkanal	Repair & Maintenance of Diesel Pumpset	Enterprise	Farm Mechanization	07							
Dhenkanal	Creation of employment opportunities through value addition	Enterprise	Value Addition	07							
Dhenkanal	Breeding & culture technique of colour fish	Enterprise	Income generation	05							
Dhenkanal	Operation & Maintenance of implements involved in harvesting operation	Enterprise	Farm Mechanization	07							

Dhenkanal	Planting material production technique	Crop	Income generation	07						
Dhenkanal	Biofertilizer Production Technology	Enterprise	Income generation	05						
Dhenkanal	Organic Farming	Crop	Income generation	07						
Dhenkanal	Repair & maintenance of Tillage implements	Enterprise	Farm Mechanization	07						
Dhenkanal	Pond based Farming system for Employment & Income	Enterprise	IFS	07						

**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	Poultry farming	Poultry unit	10	30	10
Dhenkanal	Fish farming	Fish pond	5	10	12
Dhenkanal	Mushroom	Mushroom unit	25	40	25
Dhenkanal	Technique of seedling raising inside Poly House	Polyhouse	5	15	08

**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/RY/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/RY/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		

**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	

## 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	25										
Dhenkanal	Kisan Mela	02										
Dhenkanal	Kisan Ghosthi	10										
Dhenkanal	Exhibition	02										
Dhenkanal	Film Show	10										
Dhenkanal	Method Demonstrations	09										
Dhenkanal	Farmers Seminar	01										
Dhenkanal	Workshop	01										
Dhenkanal	Group meetings	20										
Dhenkanal	Lectures delivered as resource persons	25										
Dhenkanal	Newspaper coverage	10										
Dhenkanal	Radio talks	05										
Dhenkanal	TV talks	10										
Dhenkanal	Popular Articles	12										
Dhenkanal	Extension Literature	10										
Dhenkanal	Farm Advisory Services	150										
Dhenkanal	Scientific visit to farmers field	180										
Dhenkanal	Farmers Visit to KVK	265										
Dhenkanal	Diagnostic Visits	45										
Dhenkanal	Exposure Visits	04										
Dhenkanal	Ex-trainees Sammelan	04										
Dhenkanal	Soil Health Camp	01										
Dhenkanal	Animal Health Camp	01										
Dhenkanal	Agri Mobile Clinic	08										
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	MTU 1001	SD	180	qtl	235800	200
Dhenkanal		Mushroom spawn	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	Tomato	Sept, 1 <sup>st</sup> week Jan 1 <sup>st</sup> week	Oct, 1 <sup>st</sup> week Feb, 1 <sup>st</sup> week	100m <sup>2</sup>	Utkal Pragyana, Ananya	Seedling	3750	750	1875	
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 Madhuri	Seedling	3750	750	1875	
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>	Utkal ava	Seedling	3750	750	1875	
Dhenkanal	Vegetables	Papaya	June 1 <sup>st</sup> week	July, 1 <sup>st</sup> week	100m <sup>2</sup>	Red lady/ CHD	Seedling	3750	1500	3000	
Dhenkanal	Tree species	Teak	April 1 <sup>st</sup> week	Aug. last week	100m <sup>2</sup>	Local	Seedling	3000	6000	15000	
Dhenkanal	Tree species	Sisu	April 1 <sup>st</sup> week	Aug. last week	100m <sup>2</sup>	Local	Seedling	3000	6000	15000	
Dhenkanal	Tree species	Mangium	April 1 <sup>st</sup> week	Aug. last week	100m <sup>2</sup>	Local	Seedling	3000	6000	15000	
Dhenkanal	Tree species	Bamboo	April 1 <sup>st</sup> week	Aug. last week	100m <sup>2</sup>	Local	Seedling	3000	6000	15000	
Dhenkanal	Tree species	Amla	April 1 <sup>st</sup> week	Aug. last week	100m <sup>2</sup>	Local	Seedling	3000	6000	15000	

### 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	Banaraja	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/ST Participants		
					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	900	100	Advance technology and crop schedule

## 11. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Dhenkanal	21.07.2014	24	
Dhenkanal	10.03.2014	24	

## 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	Type	Title	Author's name	Number of copies
Research Paper	01	National Journal			
Technical bulletins	04	Quarterly leaflet			
Technical reports	2	Half yearly, Annual, MPR,QPR			
Popular article	06	Odia			
News paper coverage	10	Local Odia paper			
Training calendar	1	Leaf folder			
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	Central	-	Assessment	Dhenkanal district	
Dhenkanal	MNREGA					
Dhenkanal	NHM					
Dhenkanal	RKVY					
Dhenkanal	DRDA					
Dhenkanal	Zila Panchyat					
Dhenkanal	Seed Village					
Dhenkanal	NAIP					
Dhenkanal	Climate Change					
Dhenkanal	BGREI					

#### 14. Utilization of Farmers Hostel.

Accommodation available (No. of beds): 20

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	2014	Income generation activity, integrated fish farming, Seedling production, Bee keeping, agro Service centre	81	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?

Sl.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	Mushroom, poultry, carp hatchery, agroschednet, poly house, vermin unit, IFS
Dhenkanal	Technology Desk	News letter SABUJA BARTA(quarterly publication), Year calendar, Publication – 10-15 Nos., News paper cutting, District profile-Rain fall data, Major crops, Pesticide & Fertilizer use, Vermi compost use, farm mechanization
Dhenkanal	Visitors Gallery	Photographs of different activity of K.V.K like O.F.T , F.L.D, Training, Field day, P.R.A Survey , on-farm activity , demo unit, crop cafeteria, special day celebration are displayed for visitors
Dhenkanal	Technology Exhibition	Mushroom production unit, Vermi-compost unit, Green house, poly house, Zero energy cool chamber, Mulching of fruit crop, Mushroom cultivation in poly house, Three layer system of fish cultivation, Nets used in fishing, Apiary
Dhenkanal	Technology Gate-Valve	It is the exit point of the park. In one room of the K.V.K, different materials of farm like vegetable seedling (tomato, brinjal, chilli, Papaya, Onion) , seeds, poultry birds (Banaraja), vermicompost have been kept for selling.

**c). Crop Cafeteria-**

<b>Sr. No.</b>	<b>Theme of Crop Cafeteria</b>	<b>No. of Crop Cafeteria</b>
1	Tomato	1
2	Brinjal	1
3	Chilli	1
4	Papaya	1
5	Cashewnut	1
6	Agroshednet	1
7	Mushroom unit	1
8	Poultry unit	1
9	Vermicompost units	2
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**

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

<b>Sl. No.</b>	<b>Date and month of interaction programme with progressive farmers</b>	<b>No. of progressive farmers to be participated</b>
1	9 <sup>th</sup> May	15
2	11 <sup>th</sup> July	15
3	21 <sup>st</sup> August	15
4	25 <sup>th</sup> Sept	15
5	17 <sup>th</sup> Oct	15
6	28 <sup>th</sup> Nov	15
7	19 <sup>th</sup> Dec	15
8	16 <sup>th</sup> Jan	15
9	13 <sup>th</sup> Feb	15
10	10 <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	01.05.14	
Dhenkanal	Dean Extension Education, OUAT	21.07.2014	
Dhenkanal	Dean Extension Education, OUAT	30.09.2014	

### 23. Status of KVK Website:

S. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Dhenkanal	28.06.2011	7	-

### 24. Status of RTI

S. 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 lectures 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	5	150	Paddy, Groundnut, fishery
Dhenkanal	Lectures organized	6	300	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	10	100	Horticulture
Dhenkanal	Diagnostic Practical's	5	200	Liming, seed treatment, soil collection, repair of tractor, feeding to fish
Dhenkanal	Distribution of Literature (No.)	7	400	Agricultural technology
Dhenkanal	Distribution of Planting materials (No.)	20000	100	Vegetables
Dhenkanal	Bio Product distribution (Kg)	2000	20	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

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries
Dhenkanal	Gnut	05	25
Dhenkanal	Arhar	05	25

### Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
Dhenkanal	Oilseeds	5.0	50
Dhenkanal	Pulses	0.8	2
Dhenkanal	Cereals	5.0	15
Dhenkanal	Vegetable crops	5.0	25
Dhenkanal	Tuber crops	0.5	2
Dhenkanal	Fruits	1.0	10
Dhenkanal	Spices		
Dhenkanal	Cotton		
Dhenkanal	<b>Total</b>	<b>27.3</b>	<b>104</b>

### Farmers-scientists interaction on livestock management

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

### Animal health camps 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
Dhenkanal	Seasamum	1.0	5	25

### Seedlings and Saplings distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
<b>Seedlings</b>				
Dhenkanal	Brinjal	2000	0.2	2
Dhenkanal	Chilli	2000	0.1	4
Dhenkanal	Papaya	2000	0.5	5
<b>Saplings</b>				
Dhenkanal	Banana	500	0.6	5
Dhenkanal	Mango	100	2	4
	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

### (e) Bio-Fertilizer

Name of KVK	Bio-Fertilizer	Quantity (kg)	Coverage of Area (ha)	No. of farmers
Dhenkanal	Azatobacter	10	5	13
Dhenkanal	<i>Rizobium</i>	15	10	26

**(f) Verms Produced**

Name of KVK	Verms 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 gist 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
<b>Total</b>			

**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	15	375	8	240	10	400	1	100	2	200	06	180
<b>Total</b>	15	375	8	240	10	400	1	100	2	200	06	180

**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 /awardees	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 – 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

**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)**