

**ANNUAL PROGRESS REPORT
FOR THE YEAR 2012-13**

ZONE VII, JABALPUR

**Krishi Vigyan Kendra, Mayurbhanj
Shamakhunta**

**ORISSA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY,
BHUBANESWAR**

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Instructions for Filling the Format

- 1. Do not change/modify/ delete any column of any of the table. However, additional rows can be created, if required.**
- 2. Do not merge columns, rows.**
- 3. Please repeat the name of KVK in each table in the column “Name of KVK”.**
- 4. Do not fill the non-numerical values in numeric field**
- 5. Do not repeat the unit while reporting data as it is already mentioned in the heading row**
- 6. Strictly fill the data in desired unit only. If it is reported in other unit, convert it in the desired unit**
- 7. Please mention only Standard English names of crops (Do not mention Urd, Arhar, Til, Kulthi, Moong, Bajra, etc.)**
- 8. Additional relevant information may be provided at the end of Format mentioning “Additional Information”**
- 9. Do not press any Enter Key in any of the columns while making entry in the columns of the table. Use only arrow key /Tab key/ mouse pointer while movement from one column/row to another.**

Note for Annual Action Plan 2012-13

1) Kindly fill up only targeted/ proposed information for Annual Action Plan-from 1st April, 2012 to 31st March 2013 in the table no.1,(1.1,1.2,1.3,1.4), 2.1, 3.2, 3.4, 3.5, 4.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 6.0, 7.1, 7.2, 7.3, 7.4, 8.1, 9.0, 10.0, 11, 12.1, 12.2, 12.3, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29. Remaining of the column and tables will be filled up after completion of the work as Annual Progress Report.

2) Any other activities proposed not mentioned in this format may be incorporated in the last page with certain specification.

REPORTING PERIOD – April 2012 to March, 2013

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	
Mayurbhanj	OFTs	16	80	16	76	
Mayurbhanj	FLDs – Oilseeds (activity in ha)	05	13	05	15	
Mayurbhanj	FLDs – Pulses (activity in ha)	10	26	10	30	
Mayurbhanj	FLDs – Cotton (activity in ha)	0	0	0	0	
Mayurbhanj	FLDs – Other than Oilseed and pulse crops(activity in ha)	16.2 ha	80	16.2	110	
Mayurbhanj	FLDs – Other than Crops (activity in no. of Unit/ Enterprise)	45 nos	45	45	45	
Mayurbhanj	Training-Farmers and farm women	52	1300	58	1450	
Mayurbhanj	Training-Rural youths	08	150	09	165	
Mayurbhanj	Training- Extension functionaries	08	200	08	211	
Mayurbhanj	Extension Activities	800	5000	817	5192	
Mayurbhanj	Seed Production (Number of activity as seeds in quintal)	600q		640 q		7,36,000/-
Mayurbhanj	Planting material ((Number of activity as quantity of planting material in quintal)	0	0	1,150 nos mushroom spawn		16,750/-
Mayurbhanj	Seedling Production (Number of activity as number of seedlings in numbers)	50,000		72,367		41,569/-
Mayurbhanj	Sapling Production (Number of activity as number of sapling in numbers)	0	0			
Mayurbhanj	Other Bio- products (No. of quantity)	0	0			
Mayurbhanj	Live stock products	4,500		3,770		27,998/-
Mayurbhanj	Activities of Soil and Water Testing Laboratory	0	0	0	0	0
Mayurbhanj	Rainwater Harvesting System	0	0	0	0	0
Mayurbhanj	Kisan Mobile Advisory (KVK-KMA)	84	1500	44	1546	
Mayurbhanj	SAC Meeting (Date & no. of core/ official members)	02	21	01	19	
Mayurbhanj	Literature to be Developed/Published	10	3500	14	8000	
Mayurbhanj	Convergence programmes / Sponsored programmes	02	800	04	1535	10,21,750/-
Mayurbhanj	Utilization of Farmers Hostel					

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	
Mayurbhanj	Utilization of Staff Quarters	0	0	0	0	06
Mayurbhanj	Details of KVK Agro-technological Park					
Mayurbhanj	Crop Cafeteria-					
Mayurbhanj	Farm Innovators- list of 10 farm innovators from the District					
Mayurbhanj	Status of Revolving Funds					
Mayurbhanj	Awards and Recognitions	01	01	01	01	
Mayurbhanj	Case study / Success Story to be developed	02	02	02	02	
Mayurbhanj	KVK Progressive Farmers interaction					
Mayurbhanj	Outreach of KVK in the District (No. of blocks, no. of villages)	22/320	8000	14/239	25128	
Mayurbhanj	Technology Demonstration under Tribal Sub Plan					
Mayurbhanj	KVK Ring					
Mayurbhanj	Important visitors to KVK					
Mayurbhanj	Status of KVK Website					
Mayurbhanj	Status of RTI					
Mayurbhanj	E-connectivity					
Mayurbhanj	Details of Technology Week Celebrations					
Mayurbhanj	Interventions on Drought Mitigation					
Mayurbhanj	Proposal of NAIP					
Mayurbhanj	Proposal of NICRA					
Mayurbhanj	Well labeled photographs					
Mayurbhanj	KVK-ATMA Linkage programme (Number of activities)	04		04	315	2,53,450/-

1. GENERAL INFORMATION

1.1. Staff Position (as on date)

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)
Mayurbhanj	Programme Coordinator	Vacant								
Mayurbhanj	Subject Matter Specialist 1	Mr. J. Patra	Agriculture Extension	M.Sc.(Ag.)	Extension Education	15600 -39100	26,590/-	18.07.2005	Permanent	OBC
Mayurbhanj	Subject Matter Specialist 2	Vacant	Crop production							
Mayurbhanj	Subject Matter Specialist 3	M.Bhol	Home Science	M.Sc. (Home Science)	Home science Extension	15600 -39100	26,590/-	02.01.2006	Permanent	OBC
Mayurbhanj	Subject Matter Specialist 4	S. Pattnaik	Horticulture	M.Sc. (Ag.)	Floriculture	15600 -39100	26,590/-	10.01.2006	Permanent	General
Mayurbhanj	Subject Matter Specialist 5	Dr.D .Mishra	Plant Protection	Ph.D.	Plant pathology	15600 -39100	23,610/-	01.01.2010	Permanent	General
Mayurbhanj	Subject Matter Specialist 6	D.K. Mohanty	Farm machinery	M.Tech. (Ag. Engg.)	Farm Machinery and Power	15600 -39100	26,590/-	09.07.2012	Permanent	General
Mayurbhanj	Programme Assistant	Vacant	Agriculture							
Mayurbhanj	Computer Programmer	S.K.Barik	Computer Science	DOEACC, "O/A", MCA	VB & Oracle	9300-34800	17,780/-	11.07.2005	Permanent	OBC
Mayurbhanj	Farm Manager	Vacant								
Mayurbhanj	Accountant / superintendent	Vacant								
Mayurbhanj	Stenographer	R.N.Pati	Arts	Master in Arts	Public Administration	5200-20200	9,100/-	16.10.2006	Contractual	General
Mayurbhanj	Driver	P.K.Biswal		Graduate		5200-20200	8,250/-	25.07.2007	Contractual	OBC
Mayurbhanj	Driver	B.K.Behera		Graduate		3050-75-3950-80-4590	7,770/-	18.07.2008	Contractual	OBC
Mayurbhanj	Supporting staff	D.Swain		Under matric		4440-7440	6,680/-	20.12.2007	Contractual	OBC
Mayurbhanj	Supporting staff	H.Pradhan		Under matric		4440-7440	6,680/-	22.12.2007	Contractual	OBC

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

(A) Geographical		
➤	Latitude	21 ⁰ 16' to 22 ⁰ 34' North
➤	Longitude	85 ⁰ 40' to 87 ⁰ 11' East
➤	Altitude	20m to 1165m MSL
➤	Geographical Area	10,41,8 (' 000 ha)
➤	Forest area	434 (' 000 ha)
➤	Misc & tree grooves	15 (' 000 ha)
➤	Permanent pasture	24 (' 000 ha)
➤	Culturable waste	10 (' 000 ha)
➤	Land put to non agril use	50 (' 000 ha)
➤	Barren and unculturable land	27 (' 000 ha)
➤	Current fallow	65 (' 000 ha)
➤	Other fallow	376 (' 000 ha)
➤	Cultivable area	441 (' 000 ha)
➤	Net area sown	376 (' 000 ha)
➤	Gross cropped area	440 (' 000 ha)
➤	Annual normal rainfall	1648.2 mm in 77 rainy day
➤	Temperature	Max: 39 ⁰ C & Min: 4 ⁰ C
➤	Cultivable Land	437 (' 000 ha)
	High land	43%
	Medium land	28%
	Low land	29%
(C) Census (According to population census, 2001)		
➤	Total population	2223000
	Male	112300
	Female	110000
➤	Population density per sq.km	213
➤	Literacy rate	51.91
(D) Agricultural		
➤	Farm families	
	a) Small farmers	1,63,122 ha.
	b) Marginal farmers	1,34,204 ha.
	c) Big farmer	43,476 ha.

	d) Agricultural labourers	2,23,601
➤	Major crops grown:	
	Kharif:	Paddy, Maize, Small millet, Arhar, Mung, Biri, Cow pea, Kulthi, Ground nut, Niger, Sweet potato, other vegetables, Turmeric, Ginger, Mesta, Sunhemp.
	Rabi:	Paddy, Maize, Small millets, Arhar, Mung, Biri, Cow pea, Kulthi, Gram, Lentil, Ground nut, Mustard, Niger, Linseed, Sweet potato, Potato, Onion, Other vegetables, Chilli, Coriander, Garlic.
➤	Kharif cropped area	364000 ha
➤	Rabi Cropped area	61,000 ha
➤	Cropping intensity (%)	121
➤	Total fertilizer consumption (kg/ha.)	11.98 (X 1000 MT)
	Nitrogen	Kharif 5.94 + Rabi 1.67 = 7.61
	Phosphorus	Kharif 2.19 + Rabi 1.03 = 3.22
	Potash	Kharif 0.45 + Rabi 0.70 = 1.15
➤	Per ha. Fertilizer consumption (kg/ha)	
	Kharif:	24
	Rabi:	63.48 kg
➤	Soil type	Sandy loam, Red lateritic
➤	Irrigation from different sources (in ha.)	
	Kharif	24 %
	Rabi	10 %

AGRO-ECOLOGICAL SITUATIONS

I= Low Rainfall, Low Elevation -Blocks-5nos

II = Medium Rainfall, Low Elevation -Blocks-15nos

III = High Rainfall, Low Elevation -Blocks-1no

IV = Medium Rainfall, Medium Elevation -Blocks-5nos

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)
Mayurbhanj	Jhalliamara	2012	Suliapada	30 km	375	63
Mayurbhanj	Kailash ChandraPur	2012	Baripada	18 km	1025	118
Mayurbhanj	Machhia	2009	Kaptipada	62 km	315	50
Mayurbhanj	Dabak	2009	Khunta	43 km	350	72
Mayurbhanj	Madhunanda	2009	Betnoti	55 km	430	63
Mayurbhanj	Baunsabilla	2006	Shamakhunta	09 km	2400	145
Mayurbhanj	Khandia	2006	Shamakhunta	13 km	1039	165

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

KVK Name	THRUST AREA
Mayurbhanj	Seed production programme in paddy & vegetables
Mayurbhanj	Aromatic rice cultivation
Mayurbhanj	Oilseed and pulse cultivation
Mayurbhanj	Off season & hybrid vegetable cultivation
Mayurbhanj	Organic Farming and Vermi-composting
Mayurbhanj	Farm Mechanization
Mayurbhanj	Cultivation of Fruit and development of orchards
Mayurbhanj	Bee keeping
Mayurbhanj	Mushroom cultivation
Mayurbhanj	Value addition of fruits & vegetables
Mayurbhanj	IPM and IDM in field crops and vegetables
Mayurbhanj	Nutritional garden
Mayurbhanj	Soil reclamation and use of micro nutrients
Mayurbhanj	Micro-irrigation and use of plastic in agriculture
Mayurbhanj	Back yard poultry cultivation & Goatery
Mayurbhanj	Commercial pisciculture
Mayurbhanj	Commercial floriculture
Mayurbhanj	Entrepreneurship through nursery development

1.4. PROBLEM IDENTIFIED by KVK (Approved by competent Authority in meetings/workshop)

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
Mayurbhanj	Low productivity due to improper planting techniques and water management in paddy	PRA, Group discussion	All blocks
Mayurbhanj	Low income and distress sale of paddy grains	PRA, Group discussion, Secondary data	All blocks
Mayurbhanj	Low yield for ruling varieties in paddy in medium land	PRA	All blocks
Mayurbhanj	Pest and disease management in paddy	PRA	All blocks
Mayurbhanj	Weed problem in upland and medium land paddy	PRA	All blocks
Mayurbhanj	Improper plant population and more cost in weeding on paddy	PRA, Group discussion	All blocks
Mayurbhanj	Low level of mechanization	PRA, Group discussion	All blocks
Mayurbhanj	Improper management of water for irrigation	Group discussion, Secondary data	All blocks
Mayurbhanj	Loss of quality and quantity of paddy grains due to faulty PHT	Group discussion, Secondary data	All blocks
Mayurbhanj	Low yield of oilseed and pulse crops due to unscientific method of cultivation and soil acidity	PRA, Group discussion	All blocks
Mayurbhanj	Low profit due to increase in cost of cultivation and unavailability of labors in time	PRA, Group discussion, Secondary data	All blocks
Mayurbhanj	Low yield of oilseed and pulse crops due to pest and diseases	PRA, Group discussion	All blocks
Mayurbhanj	Unavailability of quality composts	PRA, Group discussion	All blocks
Mayurbhanj	Low return from maize cultivation	Secondary data	All blocks
Mayurbhanj	Low productivity from vegetables due to pest & diseases	PRA, Group discussion	All blocks
Mayurbhanj	Low productivity and return from fruits	PRA, Group discussion	All blocks
Mayurbhanj	Low productivity and return from traditional suckers	PRA, Group discussion	All blocks
Mayurbhanj	Low productivity and return from tuber crops	Group discussion, Secondary data	All blocks
Mayurbhanj	Low return from fruits and vegetables	PRA, Group discussion, Secondary data	All blocks
Mayurbhanj	Drudgery of farm women due to manual weeding and threshing	Group discussion, Secondary data	All blocks
Mayurbhanj	Unavailability of nutritious balanced diets to farm women	Group discussion, Secondary data	All blocks
Mayurbhanj	Low income of rural youth and farm women due to lack of Entrepreneurship	PRA, Group discussion	All blocks
Mayurbhanj	Low income of farm women due to improper animal rearing practices	PRA, Group discussion	All blocks
Mayurbhanj	Low output of livestock and fishery	PRA, Group discussion, Secondary data	All blocks

2. On Farm Testing (April 2012 to March 2013)

2.1 Information about OFT

KVK name	Year/season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/Enterprise	Farming Situations	Target (Ha/No.)	No. of trials	Title of OFT	Results (with parameter) Yield (Q/ha)		Net Returns (Rs./ha)	
										Farmer practice T1	Rec. Tech T2	T1	T2
Mayurbhanj	Kharif, 2012	Low productivity and return from fruits	Assessment	Cultivation of fruit	Crop	Rainfed upland	01 ha	05	Assessment of hybrid papaya variety, Red Lady	375	700	2,95,000	5,80,000
Mayurbhanj	Kharif, 2012	Low yield due to local variety	Assessment	Production of low volume and high value crops	Crop	Rainfed upland	0.2 ha	05	Assessment of pumpkin variety, Guamal	170	220	60,000	82,000
Mayurbhanj	Kharif, 2012	High mortality of seedlings due to various diseases in nursery	Assessment	IDM	Crop	Irrigated Medium land	01 ha	05	Assessment of IDM strategies in nurseries of Paddy	1655 nos./sq.m.	2020 nos./sq.m.	1,550	2,250
Mayurbhanj	Kharif, 2012	Low yield in paddy due to high incidence of leaf-folder, stem-borer and case worm	Assessment	Bio-control of pests and diseases	Crop	Irrigated Medium land	01 ha	05	Assessment of <i>Beauveria basiana</i> in controlling biting and cutting pests	43.5	48.6	21,000	24,600
Mayurbhanj	Kharif, 2012	Low yield of variety <i>V. volvacia</i> in peak period of summer	Assessment	Mushroom production	Enterprise	Homestead	05 nos.	05	Assessment of paddy straw mushroom, strain <i>V. diplasia</i>	35	72	1500	3100
Mayurbhanj	Kharif, 2012	Low biological efficiency in paddy straw mushroom	Assessment	Mushroom production	Enterprise	Homestead	05 nos.	05	Assessment of yield performance of milky mushroom <i>C. indica</i>	45	60	4700	5700
Mayurbhanj	Kharif, 2012	Low yield and more cost of cultivation due to Weeding problem	Assessment	Farm machineries	Enterprise	Irrigated Medium and Upland	01 ha	05	Assessment of power weeder in vegetables	Labour requirements (man-days/ha)	Labour requirements (man-days/ha)	Cost of operation (Rs./ha)	Cost of operation (Rs./ha)
										15.63	2.35	1970	1068
Mayurbhanj	Kharif, 2012	Less net return due to high cost of cultivation. More labour and time is required in traditional practices resulting delayed sowing in groundnut	Assessment	Farm machineries	Enterprise	Irrigated Medium and Upland	01 ha	05	Assessment of tractor operated multi-crop seed cum fertilizer drill for groundnut	Labour requirements (man-days/ha)	Labour requirements (man-days/ha)	Cost of operation (Rs./ha)	Cost of operation (Rs./ha)
										6 + 3 bullock days	1	2250	600
Mayurbhanj	Rabi, 2012-13	Yield loss and deterioration of quality due to indiscriminate use of chemical fertilizer	Assessment	Export potential of vegetables	Crop	Irrigated medium land	01 ha	05	Assessment of integrated nutrient management in Cabbage	235	330	85,500	1,25,000
Mayurbhanj	Rabi, 2012-13	Low yield and return from local variety	Assessment	Export potential of ornamental plants	Crop	Irrigated medium land	0.02 ha	05	Assessment of marigold variety inca-orange cultivation	110	220	75,000	1,60,000
Mayurbhanj	Rabi, 2012-13	High mortality of seedlings due to early infestation of pests in nurseries	Assessment	IPM	Crop	Irrigated Medium and Upland	01 ha	05	Assessment of IPM strategies in Nurseries of vegetables	26000 nos./100 sq.m.	29500 nos./100 sq.m.	10,200	11,850
Mayurbhanj	Rabi, 2012-13	Low yield in watermelon due to high incidence of	Assessment	IDM	Crop	Irrigated Medium and	01 ha	05	Assessment of IDM strategies in Watermelon	200	255	69,500	94,800

						Upland								
Mayurbhanj	Rabi, 2012-13	diseases Loss of quality of Mahua flowers due to unhygienic collection of Mahua flower	Assessment	Value addition	Enterprise	Homestead	03 nos.	03	Assessment of quality of mahua flower through improved method of collection	2.25 q/tree	3.15q/tree	3375	5670	
Mayurbhanj	Rabi, 2012-13	Loss of keeping quality of vegetable	Assessment	Storage loss minimization technique made of Rice husk	Enterprise	Homestead	03 nos.	03	Assessment of zero energy cool chamber made of rice husk					
Mayurbhanj	Rabi, 2012-13	Less net return due to high cost of cultivation. More labour and time is required in traditional practices resulting delayed sowing in green gram	Assessment	Farm machineries	Enterprise	Irrigated Medium and Upland	01 ha	05	Assessment of tractor operated multi-crop seed cum fertilizer drill for green gram	Labour requirements (man-days/ha)	Labour requirements (man-days/ha)	Cost of operation (Rs./ha)	Cost of operation (Rs./ha)	
										7	1	1880	800	
Mayurbhanj	Rabi, 2012-13	Manual weeding with interculture is also a time consuming operation and lots of drudgery involved	Assessment	Farm machineries	Enterprise	Irrigated Medium and Upland	01 ha	05	Assessment of the performance of wheel cycle weeder in groundnut	Labour requirements (man-days/ha)	Labour requirements (man-days/ha)	Cost of operation (Rs./ha)	Cost of operation (Rs./ha)	
										12.5	2.5	1575	750	

2.1 Recommendations of OFTs

Recommendations		
Title of OFT	For Farmers	For Dept. Personnel
Assessment of hybrid papaya variety, Red Lady	Gynodioecious hybrid papaya gives more yield and very less or no male plants.	Gynodioecious papaya varieties grown with proper package of practices gives 100 % more yield than any other high yielding varieties or land races.
Assessment of pumpkin variety, Guamal	High yielding Guamal variety gives more yield and less disease and pest incidences than local varieties	Varietal replacement with pumpkin var. Guamal can give 30 % more productivity than non-descriptive local varieties.
Assessment of IDM strategies in nurseries of Paddy	Seed treatment and spraying the nursery with chemicals yield more and healthy seedlings in paddy.	More than 30 % seedling loss occurs due to pre and post emergence rotting which can be managed by proper IDM method.
Assessment of Beauveria basiana in controlling biting and cutting pests	Spraying of entomophagus fungus B. basiana is effective, bio-safe and cheaper than chemicals against paddy pests.	Managing the pests by bio-control agent B. basiana @ 106 cfu not only minimizes the loss but also safe guards the environment
Assessment of paddy straw mushroom, strain V. diplasia	V. diplasia strain can be grown during hottest period of the year with ease and gives good yield when market price is too high.	V. diplasia can be taken up in the summer months due to its heat tolerant ability
Assessment of yield performance of milky mushroom C. indica	C. indica is whitish, attractive and can be taken as a relay crop of V.volvacea	The biological efficiency of milky mushroom is as high as 80 % when compared to paddy straw mushroom with only 10 %
Assessment of power weeder in vegetables	Use of Power weeder in vegetables is cheap, time and labour saving	By using power weeder in brinjal we can save 84% labour and 45% cost than traditional method.
Assessment of tractor operated multi-crop seed cum fertilizer drill for groundnut	The use of seed-cum-fertilizer drill not only saves time and labour but also keeps uniform distance between rows and plants which in turn gives more yield.	The use of the machine not only saves time and labor but also minimizes the cost of operation by 57 % than the traditional method of sowing.
Assessment of integrated nutrient management in Cabbage	Combination of major nutrients and essential micronutrients gives more yield and quality marketable curds in cabbage	Application of NPK @ 90:45:45 kg/ha., Vermicompost @ 5 q/ha. and Soil application of Borax @ 10 kg/ha. will result in 40 % yield increase in Cabbage.
Assessment of marigold variety inca-orange cultivation	Successful commercial cultivation of marigold mainly depends on well adaptive high yielding varieties like Inca orange.	Cultivation of marigold var. "Inca Orange" will result in 100 % yield increase over non-descriptive local varieties
Assessment of IPM strategies in Nurseries of vegetables	Soil dis-infestation and protection of vegetable nurseries by spraying the seedlings with suitable chemicals will yield more nos. of healthy seedlings	Vegetable seedling loss due to pest infestation can be minimized by 12 % through soil treatment with Fipronil 5%G and spraying with Fipronil 0.01%
Assessment of IDM strategies in Watermelon	Soil dis-infestation with bio-control agents and spraying the crop with suitable chemicals safeguard the watermelon crop from various dreaded diseases	Adoption of suitable disease management strategies like soil dis-infestation with T. viridae and spraying with Hexaconazole 0.01 % will reduce the disease incidence in water melon and enhances the yield by 25 %
Assessment of quality of mahua flower through improved method of collection	By adopting the technology, the drudgery as well as time and labour involved is less.	Mahua flowers collected by an improved method (net collection) is found to have less impurity and good quality which can be used for making value added products.

Recommendations		
Title of OFT	For Farmers	For Dept. Personnel
Assessment of zero energy cool chamber made of rice husk	The chamber keeps the vegetables fresh and the unsold perishable vegetables and greens can be stored for short period.	The keeping quality of perishable vegetables can be enhanced by 3 to 5 days in zero energy cool chamber.
Assessment of tractor operated multi-crop seed cum fertilizer drill for green gram	The use of seed-cum-fertilizer drill not only saves time and labour but also keeps uniform distance between rows and plants which in turn gives more yield.	By using seed cum fertilizer drill we can save 85% labour and 57% cost than traditional method.
Assessment of the performance of wheel cycle weeder in groundnut	The instrument is having less weight, easy to operate and cheap. It can be used in various crops and saves time and labour requirement in weeding operation	By using wheel cycle weeder in groundnut we can save 80% labour and 52% cost than traditional method.

2.2 Economic Performance

KVK name	OFT Title	Parameters			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		Name and unit of Parameter	Demo	Check	FP (T1)	RP (T2)	Refined Practice, if any	FP (T1)	RP (T2)	Refined Practice, if any	FP (T1)	RP (T2)	Refined Practice, if any	FP (T1)	RP (T2)	Refined Practice
Mayurbhanj	Assessment of hybrid papaya variety, Red Lady	Days to flowering	75	150	80,000	1,20,000		3,75,000	7,00,000		2,95,000	5,80,000		4.6	5.8	
		Fruits/plant	30	20												
		Yield (q/ha)	700	375												
Mayurbhanj	Assessment of pumpkin variety, Guamal	Days to flowering	25	30	25,000	28,000		85,000	1,10,000		60,000	82,000		3.4	3.9	
		Fruits/plant	10	4												
		Yield (q/ha)	220	170												
Mayurbhanj	Assessment of IDM strategies in nurseries of Paddy	Pre-emergence rotting (%)	3.96	19.66	2,200	2,250		3,750	4,500		1,550	2,250		1.70	2.0	
		Post-emergence rotting (%)	1.95	5.69												
		Foliar disease incidence (%)	2.96	7.3												
Mayurbhanj	Assessment of <i>Beauveria basiana</i> in controlling biting and cutting pests	Case worm incidence (%)	07	23	22,500	24,000		43,500	48,600		21,000	24,600		1.93	2.03	
		Leaf folder incidence (%)	05	14												
		Dead heart (%)	02	06												
Mayurbhanj	Assessment paddy straw mushroom, strain <i>V. diplasia</i>	Colour of mushroom	Whitish colour	Grayish white colour	2500	2500		5600	11520		3100	9020		2.24	4.61	
		Wt. of mushroom (kg/bed)	1.4	1												
		Biological efficiency (%)	11.5	10												
Mayurbhanj	Assessment of yield performance of milk mushroom <i>C. indica</i>	Colour	Whitish	Grayish white	2500	1500		7200	7200		4700	5700		2.88	3.80	
		Wt. of mushroom (kg/bed)	1.2	0.9												
		Biological efficiency (%)	80	10												
Mayurbhanj	Assessment of power weeder in vegetables	Field Capacity/Output (ha/hr)	0.053	0.008												
		Field efficiency (%)	76	70												
		Weeding efficiency (%)	94	98												
		Cost Savings (%)	45													
		Labour savings (%)	84													
Mayurbhanj	Assessment of tractor operated multi-crop seed cum fertilizer drill for groundnut	Field Capacity/Output (ha/hr)	0.35	0.03												
		Field efficiency (%)	72													
		Cost Savings (%)	74													
		Labour savings (%)	83													

Mayurbhanj	Assessment of integrated nutrient management in Cabbage	Cord quality	Good	Poor	32,000	40,000		1,17,500	1,65,000		85,500	1,25,000		3.67	4.12	
		Yield (q/ha)	330	235												
Mayurbhanj	Assessment of marigold variety inca-orange cultivation	Size of flower (cm)	15	5	35,000	60,000		1,10,000	2,20,000		75,000	1,60,000		3.14	3.66	
		Yield (q/ha)	220	110												
Mayurbhanj	Assessment of IPM strategies in Nurseries of vegetables	Leaf miner (%)	9	2	2,800	2,900		13,000	14,750		10,200	11,850		4.64	5.09	
		Leaf eating caterpillar (%)	8.5	1												
Mayurbhanj	Assessment of IDM strategies in Watermelon	Gummy stem blight (%)	9	0	30,500	32,700		1,00,000	1,27,500		69,500	94,800		3.28	3.9	
		Leaf blight (%)	15	5												
		Wilt (%)	8	1												
Mayurbhanj	Assessment of quality of mahua flower through improved method of collection	Colour	Yellow	Grayish yellow	630	800		2700	3780		2070	2980		4.28	4.7	
		Impurities (%)	0.004	0.012												
		Impurities reduction (%)	66.67													
		Wt (kg) of flower at 1.5 mths	315	225												
		Quality (Score)	8	6												
		Labour requirement	5	2												
Mayurbhanj	Assessment of zero energy cool chamber made of rice husk	Labour savings (%)	50													
		Storage period of leafy vegetables in winter (days)	8	3												
		Storage period of leafy vegetables in summer (days)	3	1												
		Storage period of other vegetables in winter (days)	10	5												
		Storage period of other vegetables in summer (days)	5	2												
Mayurbhanj	Assessment of tractor operated multi-crop seed cum fertilizer drill for green gram	Field Capacity/Output (ha/hr)	0.39	0.3												
		Field efficiency (%)	65													
		Cost Savings (%)	57													
		Labour savings (%)	85													
Mayurbhanj	Assessment of the performance of wheel cycle weeder for intercultural operation in groundnut	Field Capacity/Output (ha/hr)	0.05	0.01												
		Field efficiency (%)	88	75												
		Weeding efficiency (%)	90	98												
		Cost Savings (%)	52													
		Labour savings (%)	80													

3. Frontline Demonstrations

3.1. Follow-up for results of FLDs implemented during previous year (up to 2011-12)

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
Mayurbhanj	Crop	Varietal substitution	Colocasia variety Muktakeshi	Field day, group discussion	10	35	08
Mayurbhanj	Enterprise	Ornamental plants	Commercial floriculture	Field day, group discussion	08	40	14
Mayurbhanj	Crop	Varietal substitution	Coriander variety RCR-436	Field day, group discussion	09	25	07
Mayurbhanj	Crop	Integrated Nutrient Management	Application of 110:50:100 kg NPK/ha	Field day, group discussion, leaf let	06	28	07
Mayurbhanj	Crop	Varietal substitution	Medium duration hybrid paddy – JKRH-401	Field day, group discussion	25	180	105
Mayurbhanj	Crop	Biocontrol of plant diseases	Application of pheromone trap and egg parasitoid for managing stem borer in paddy	Training, Field day, group discussion, leaf let, radio talk	37	277	152
Mayurbhanj	Crop	IPM	Soil application of neem cake and spraying of Prophenophos for managing fruit borer in okra	Training, Field day, group discussion, leaf let, radio talk	18	235	80
Mayurbhanj	Crop	Biocontrol of plant diseases	Soil application of FYM fortified with antagonistic <i>Trichoderma viridae</i> for controlling soil born diseases in vegetables	Training, Field day, group discussion, leaf let, radio talk	11	165	48
Mayurbhanj	Enterprise	Duck rearing	Rearing of improved duck breed “ Khaki Campbell”	Field day, group discussion, radio talk	10	350	
Mayurbhanj	Enterprise	Location specific drudgery reduction	Shelling of dehusked cobs by tubular maize sheller	Field day, group discussion, radio talk	09	54	
Mayurbhanj	Enterprise	Location specific drudgery reduction	Sitting type manual operated groundnut decorticator	Field day, group discussion, leaf let	15	240	
Mayurbhanj	Enterprise	Small scale income generating enterprise	Vermi-composting practices	Training, Field day, group discussion, leaf let, radio talk	06	60	

3.2 Details of FLDs implemented during 2012-13

KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop- Area (ha)/ Entrep - No.	Name of Variety/ Technology/ Enterprises	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Mayurbhanj	Managements of orchards	Mango	Kharif, 2012	Hormone application of NAA 20 PPM + Ethrel 200 ppm in Mango before flowering stages	01ha	Amrapalli, Mallika	Continuing			00	01	00	09	10
Mayurbhanj	Off season vegetable	Radish	Kharif, 2012	Off-season vegetable cultivation	01 ha	Pusa Chetaki	210	180	16.66	02	02	00	06	10
Mayurbhanj	IDM	Paddy	Kharif, 2012	Management of blast in paddy using Bael and Tulsi leaf extracts	04 ha	Bio-pesticides in controlling plant diseases	48.8	46.3	5.4	00	07	00	03	10
Mayurbhanj	IPM	Paddy	Kharif, 2012	Management of cutting and biting pests in paddy by Chloropyriphos and Cypermethrin	04 ha	Pest management by chemical method	53.0	44.5	19.1	00	05	00	05	10
Mayurbhanj	Storage loss minimization techniques	Parad tablets	Kharif, 2012	Placing of one parad tablet wrapping inside a cloth per 2 kg of food grain stored in gunny bags	10 nos	Use of Parad tablets for storage of food grains.	98.8 kg	89.3 kg	10.6	00	03	05	02	10
Mayurbhanj	Location specific drudgery reduction technologies	Bhindi Plucker	Rabi, 2012-13	Use of bhindi plucker for harvesting	10 nos	Bhindi Plucker	135 kg	90 kg	50	00	02	05	03	10

Mayurbhanj	Farm Machineries	Power operated maize sheller	Kharif, 2012	Power operated maize sheller for shelling maize	01ha	Maize Sheller	Output (kg/hr)	Output (kg/hr)	80	00	03	05	02	10
							109	21						
Mayurbhanj	Farm Machineries	Paddy reaper	Kharif, 2012	Paddy reaper for harvesting paddy	01 ha	Paddy reaper	Output (ha/hr)	Output (ha/hr)	97	01	05	02	02	10
							0.27	0.0056						
Mayurbhanj	Production of low volume and high value crop	Watermelon	Rabi, 2012-13	Varietal substitution	01 ha	Sugar baby	240	190	26.32	00	08	00	02	10
Mayurbhanj	Export potential fruits	Banana	Rabi, 2012-13	1NM	0.2 ha	Bantala	Continuing..			02	02	00	06	10
Mayurbhanj	IPM	Brinjal	Rabi, 2012-13	Management of shoot and fruit borers in brinjal by mechanical and chemical methods	01ha	IPM	250	175	42.9	00	04	00	06	10
Mayurbhanj	IPM	Cabbage	Rabi, 2012-13	Management of diamond backed moth and leaf webber in cabbage by chemical method	01ha	Pest management by chemical method	281	262	7.3	00	07	00	03	10
Mayurbhanj	Post harvest technology	LDPE Tunnel	Rabi, 2012-13	Drying of Mahua flowers in UV stabilized LDPE low tunnel	05 nos	Drying of Mahua flower in LDPE low tunnel	120 kg	90 kg	33.33	01	03	01	01	05
Mayurbhanj	Poultry management	Poultry	Kharif, 2012	Insulating the roof with white paint, spreading straw and sprinkling the water over the roof, hanging of wet gunny bags on the side of the house, provision of clean vase and cold water at every 3-4 hrs intervals, feeding with wet mash 2 times a day	10 nos					00	05	05	00	10
Mayurbhanj	Farm Machineries	Axial flow thresher	Rabi, 2012-13	Tractor operated axial flow thresher for threshing paddy	10 nos.	Axial flow thresher	Output (kg/hr)	Output (kg/hr)	75	00	06	00	04	10
							382	93						
Mayurbhanj	Farm Machineries	Bullock drawn down size M.B. plough	Rabi, 2012-13	Bullock drawn down size M.B. plough for dry tillage	01 ha	M.B. plough	Output (ha/hr)	Output (ha/hr)	45	00	08	00	02	10
							0.02	0.011						

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
Mayurbhanj	Mango	Hormone application of NAA 20 PPM + Ethrel 200 ppm in Mango before flowering stages	Fruits/plant (nos.)	600	420	Continuing							
			Fruit weight (gm)	-	-								
Mayurbhanj	Radish	Off-season vegetable cultivation	-	-	-	40,000	35,000	1,80,000	1,26,000	1,40,000	91,000	4.5	3.6
Mayurbhanj	Paddy	Management of blast in paddy using Bael and Tulsi leaf extracts	Blast severity 15DAT (%)	5	5	22,000	23,200	48,800	46,300	26,800	23,100	2.22	1.99
			Blast severity 35DAT (%)	5	10								
			Blast severity 55DAT (%)	0	10								
Mayurbhanj	Paddy	Management of cutting and	Leaf folder (%)	2	12	24,500	24,000	53,000	44,500	28,500	20,500	2.16	1.85

		biting pests by Chloropyriphos and Cypermethrin	Case worm (%)	3	21								
			Dead heart (%)	1	4								
Mayurbhanj	Grains of Cereals and pulses	Placing of one parad tablet wrapping inside a cloth per 2 kg of grain stored in gunny bags	Damaged grain weight/q (kg)	1.2	10.7	52 (Rs./q)		197 (Rs./q)		145 (Rs./q)		3.78	
Mayurbhanj	Bhindi Plucker	Use of bhindi plucker for harvesting	Plucking capacity (kg/hr)	9	5.2								
			Working heart rate (beats/min)	104	110								
			Cardiac cost (beats/ sq.m.)	27.6	29.2								
Mayurbhanj	Power operated maize sheller	Power operated maize sheller for shelling maize	Labour requirement, man-h/q	1.82	4.76								
			Cost of operation. Rs/q	58	99								
			Savings in cost (%)	41									
			Savings in labour (%)	80									
			Grain breakage (%)	1.2 to 1.5	0.5								
Mayurbhanj	Paddy reaper	Paddy reaper for harvesting paddy	Labour requirement, man-h/ha	4	180								
			Cost of operation. Rs/ha	850	2835								
			Savings in cost (%)	70									
			Savings in labour (%)	97									
			Field efficiency (%)	95	-								
Mayurbhanj	Watermelon	Varietal substitution	Days to flowering	30	35	32,000	28,000	96,000	76,000	64,000	48,000	3.0	2.71
			Fruits/plant (no.)	5	2								
Mayurbhanj	Banana	1NM	Hands/plant (no.)			Continuing							
			Fingers/hand (no.)										
			Bunches/ha										
Mayurbhanj	Brinjal	Management of shoot and fruit borers in brinjal by mechanical and chemical methods	Shoot borer at 30 DAT (%)	4	18	46,500	41,500	1,50,000	1,05,000	1,03,500	63,500	3.23	2.53
			Fruit borer at 55 DAT (%)	2	23								
			Fruit borer at 75 DAT (%)	5	26								
Mayurbhanj	Cabbage	Management of diamond backed moth and leaf webber in cabbage by chemical method	Avg. market value/kg (Rs.)	5	4	39,000	36,500	1,40,500	1,04,800	1,01,500	68,300	3.60	2.87
			DBM (%)	8	52								
			Leaf webber (%)	5	23								
Mayurbhanj	LDPE Tunnel	Drying of Mahua flowers in UV stabilized LDPE low tunnel	Moisture content after 3 days of drying (%)	13.7	23.5	1010	630	3600	1800	2590	1170	3.56	2.86
			Time required for drying (hr.)	14	21								
			Market value per kg (Rs.)	30	20								
Mayurbhanj	Poultry	Insulating the roof with white paint, spreading straw and sprinkling the water over the roof, hanging of wet gunny bags on the side of the house, provision of clean vase and cold water at every 3-4 hrs intervals, feeding with wet mash 2 times a day	Mortality rate in 5 months (%)	5	48	405	180	2560	1020	2155	840	6.32	5.67
			Body weight in 5 months (kg)	3.76 (Male) 3.13 (Female)	3.1 (Male) 2.66 (Female)								

Mayurbhanj	Axial flow thresher	Tractor operated axial flow thresher for threshing paddy	Labour requirement, man-days/q	0.16	1 + 1 bullock days										
			Cost of threshing Rs/q	27	205										
			Savings in cost (%)	86											
			Savings in labour (%)	84											
Mayurbhanj	Bullock drawn down size M.B. plough	Bullock drawn down size M.B. plough for dry tillage	Labour requirement, man-days/ha	6.25	11.36										
			Cost of ploughing Rs/ha	788 +1250/- (bullock cost) = 2038/-	1431 + 2272/- (bullock cost) = 3703/-										
			Savings in cost (%)	45											
			Savings in labour (%)	44											
			Width of cut, cm	12	8										
			Depth of cut, cm	6	6										

3.4 Training and Extension activities under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Mayurbhanj	Mango	Field days	01	50	
		Farmers Training	01	25	
		Media coverage			
		Training for extension functionaries			
Mayurbhanj	Radish	Field days	01	50	
		Farmers Training	03	75	
		Media coverage			
		Training for extension functionaries			
Mayurbhanj	Water melon	Field days	01	50	
		Farmers Training	01	25	
		Media coverage			
		Training for extension functionaries			
Mayurbhanj	Babnana	Field days			
		Farmers Training	02	50	
		Media coverage			
		Training for extension functionaries			
Mayurbhanj	Paddy	Field days	01	50	
		Farmers Training	02	50	
		Media coverage	01		
		Training for extension functionaries	01	27	
Mayurbhanj	Paddy	Field days	01	50	
		Farmers Training	01	25	
		Media coverage	01		
		Training for extension functionaries	01	27	
Mayurbhanj	Brinjal	Field days	01	50	
		Farmers Training	02	50	
		Media coverage	01		

		Training for extension functionaries	01	30	
Mayurbhanj	Cabbage	Field days	01	50	
		Farmers Training	02	50	
		Media coverage	01		
		Training for extension functionaries	01	30	
Mayurbhanj	Parad tablets	Field days	01	50	
		Farmers Training	01	25	
		Media coverage			
		Training for extension functionaries			
Mayurbhanj	Bhindi plucker	Field days			
		Farmers Training	01	25	
		Media coverage			
		Training for extension functionaries	01	22	
Mayurbhanj	LDPE low tunnel	Field days			
		Farmers Training	01	25	
		Media coverage			
		Training for extension functionaries			
Mayurbhanj	Poultry	Field days			
		Farmers Training	02	50	
		Media coverage			
		Training for extension functionaries			
Mayurbhanj	Maize	Field days			
		Farmers Training	01	25	
		Media coverage			
		Training for extension functionaries	01	30	
Mayurbhanj	Paddy	Field days			
		Training for Rural Youth	01	10	
		Media coverage			
		Training for extension functionaries	01	30	
Mayurbhanj	Paddy	Field days			
		Farmers Training	01	25	
		Media coverage			
		Training for extension functionaries			
Mayurbhanj	Plough	Field days			
		Farmers Training	01	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.

4. Feedback System:

4.1. Feedback of the Farmers to KVK

Name of KVK	Feedback			
	Technology	Methodology used	Benefits of OFT/FLD	Future Adoption
MAYURBHANJ	Off-season Radish cultivation	Cultivation of radish var. Pusa Chetki in Kharif season	Though yield is lower in the off season than on season, still then farmers are willing to accept the technology for higher market value in the off season	Recommended to line department for off-season cultivation of radish
MAYURBHANJ	Hormone application in Mango	Application of NAA 20 PPM + Ethrel 200 ppm in Mango before flowering stages	More number of fruits/plant are observed after hormone application	Recommended to line department for popularization of the technology
MAYURBHANJ	Varietal substitution in Water melon	Cultivation of high yielding water melon var. Sugar Baby	Good cultivation in water melon increase the yield by 26.31%, however catching the local markets need large scale and continuous production	Recommended to line department for popularization of the variety
MAYURBHANJ	Use of power operated maize sheller	Shelling maize by using power operated Maize Sheller	Despite of its initial high cost, the technology was highly appreciated as it shelled 90 kg more grain than the conventional hand shelling method.	Recommended to line department for popularization of the technology
MAYURBHANJ	Use of paddy reaper	Reaping the paddy crop by self propelled paddy reaper	Farmers highly appreciated this technology as it saved 97 % labour and 70 % cost in paddy reaping operation	Trainings and more demonstrations are needed for efficient spread of the technology
MAYURBHANJ	Axial flow thresher	Threshing of paddy by tractor driven axial flow thresher	Farmers highly appreciated this technology as it saved 84 % labour and 86 % cost in paddy threshing operation	Recommended to line department for popularization of the technology
MAYURBHANJ	Down size M.B. plough	Deep ploughing by tractor driven MB plough	No extra load on the bullock, so cover more area at a time	Line department was intimated for its inclusion in the government subsidy programme for better adoption
MAYURBHANJ	Paddy	Pest management in paddy by using bio-pesticide made up of Bael and Tulsi leaves.	Bio-pesticides not only protected the crop from diseases but also stimulated the plant growth	Bael and Tulsi leaf extracts should be commercially sold in the market as neem oil for better adoption
MAYURBHANJ	Cabbage	Spraying of suitable systemic pesticide twice in the cropping season for DBM and LW management	Farmers were happy by knowing the best suited chemical and its method of application in cabbage and cauliflower against the most dreaded pest.	Recommended to line department for popularization of the technology
MAYURBHANJ	Brinjal	Hand clipping of infested twigs and fruits and chemical spraying of brinjal	Farmers were able to realize the importance of mechanical control in the pest management practice.	Recommended to line department for popularization of the technology
MAYURBHANJ	Mahua flower	Drying of mahua flower in LDPE low tunnel	The technology not only saves time for drying but also keeps the optimum moisture content in the final product for more self life and market value	Recommended to line department for popularization of the technology
MAYURBHANJ	Poultry management	Suitable management practices like roof painting, use of moist gunny bags and intermittent watering.	In the peak period of summer season, mortality of poultry birds can be minimized by the technology.	More numbers of training and demonstrations is required for dissemination of the technology
MAYURBHANJ	Parad tablet	Placing one parad tablet in 2 kg of grain before storage	Use of parad tablets is cost effective, non-toxic and effectively minimizes the storage loss of food grains.	Recommended to line department for popularization of the technology

4.2 Feedback from KVK to Research System

Name of KVK	Feedback
MAYURBHANJ	<ol style="list-style-type: none"> 1. Off season cole crop varieties should be developed. 2. Highly pungent chilli varieties should be developed. 3. Off season Spine gourd and Radish varieties should be developed. 4. Suitable seed treating chemical should be developed for managing both sucking and biting pests throughout the nursery period of vegetable seedlings 5. Some other substitutes to <i>Calocybe indica</i> (Milky mushroom) such as: <i>Macrocybe giganteum</i> can be used, which is having low pungency. 6. Small size kerosene or diesel operated power weeder should be developed for different vegetables as per their spacing 7. The leveler attached to the seed drill should be well positioned so that it should not collide with ground wheel 8. Different size shovel may be available and provision may be there for attachment

Abbreviation Used

FW	(A) Farmers & Farm Women
RY	(B) Rural Youths
IS	(C) Extension Personnel
ONC	On Campus Training Programme
OFC	Off Campus Training Programme
M	Male
F	Female
T	Total
Thematic Areas for Training	
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

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 involved
Mayurbhanj	F/FW	PRA study, problem identified and prioritization, root-cause analysis & SWOT analysis, gap analysis	13.05.2009 in Dabak; 15.05.2009 in Madhunanda; 30.06.2009 in Machhia, 11.06.12 in Kailashchandrapur; 23.06.12 in Jhaliamara	156
Mayurbhanj	RY	Group discussion with the rural youth clubs and SHG members and analyzing secondary data from line department like women & CD department, horticulture department, banking officials.	16.10.09 and 04.12.09 On campus and line departments	85
Mayurbhanj	IS	Interview method and analysis of professional performance by group exercise	17.08.10 and 18.08.10	30

Table 5.2. Details of Training programmes conducted by the KVK

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	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
Mayurbhanj	FW	ONC	PLP	Management of pests and diseases in Paddy by Integrated Methods	01	02	10	0	01	0	14	0	0	0
Mayurbhanj	FW	OFC	PLP	IPM strategies in off-season tomato and cucurbits	01	01	25	0	0	0	0	0	0	0
Mayurbhanj	FW	OFC	PLP	Soil disinfestations strategies in Kharif season	02	02	37	0	02	0	11	0	0	0
Mayurbhanj	FW	OFC	PLP	Spraying technique in paddy cultivation	01	01	0	0	02	0	23	0	0	0
Mayurbhanj	FW	OFC	PLP	Management of fruit borer and sucking pests in Okra	01	01	03	04	06	01	10	01	0	0
Mayurbhanj	FW	OFC	PLP	Sucking pest management in Okra, Brinjal, Tomato and Chilli	01	01	09	0	07	0	09	0	0	0
Mayurbhanj	FW	OFC	PLP	Plant protection technique in Arhar	01	01	22	0	0	0	01	02	0	0
Mayurbhanj	FW	ONC	PLP	Application of <i>Trichoderma viridae</i> in vegetable nurseries for disease management	01	02	0	0	0	0	25	0	0	0
Mayurbhanj	FW	OFC	PLP	Seed treating chemicals and their use in vegetable cultivation	01	01	0	0	0	0	25	0	0	0
Mayurbhanj	FW	OFC	PLP	Management of fruit fly in Pumpkin	01	01	17	08	0	0	0	0	0	0
Mayurbhanj	FW	OFC	PLP	Management of fruit and shoot borer in Okra, Tomato, Brinjal and Chilli	01	01	01	0	0	0	17	07	0	0
Mayurbhanj	FW	OFC	PLP	Plant protection measures in Green gram	01	01	25	0	0	0	0	0	0	0
Mayurbhanj	FW	OFC	PLP	Plant protection measures in Groundnut	01	01	08	0	0	0	17	0	0	0
Mayurbhanj	FW	ONC	PLP	Management of various diseases in Banana and Papaya	01	02	12	01	0	0	12	0	0	0
Mayurbhanj	FW	ONC	PLP	Bio-pesticides for controlling pests and diseases in vegetable crops	01	02	19	04	0	0	01	01	0	0

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	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
Mayurbhanj	FW	OFC	WOE	Preparation of value added products from Mahua flowers	01	01	0	0	0	0	0	23	0	02
Mayurbhanj	FW	OFC	WOE	Laying out and planting different components of kitchen garden for a rural family	01	01	0	13	0	0	0	0	0	12
Mayurbhanj	FW	OFC	WOE	Preparation of low cost diet from the locally available cereals	01	01	0	18	0	07	0	0	0	0
Mayurbhanj	FW	OFC	WOE	Vaccination schedule for backyard poultry rearing	02	02	0	06	0	11	0	33	0	0
Mayurbhanj	FW	OFC	WOE	Weeding operations in vegetables by small women friendly tools	01	01	0	04	0	05	0	0	0	16
Mayurbhanj	FW	ONC	WOE	Preparation of value added products from lemon	01	01	0	02	0	18	0	05	0	0
Mayurbhanj	FW	OFC	WOE	Vaccination procedure in goats for deworming	01	01	0	03	0	13	0	07	0	02
Mayurbhanj	FW	ONC	WOE	Preparation of value added products from mushroom	02	04	0	11	0	14	0	0	0	0
Mayurbhanj	FW	OFC	WOE	Safety measures in groundnut decorticator	01	01	0	06	0	0	0	11	0	08
Mayurbhanj	FW	OFC	WOE	Preparation of value added products from tomato	01	01	0	03	0	11	0	08	0	03
Mayurbhanj	FW	ONC	WOE	Cultivation of oyster mushroom in entrepreneurial basis	02	04	0	04	0	0	0	21	0	0
Mayurbhanj	FW	OFC	WOE	Storing technique of paddy	01	01	0	0	0	0	0	25	0	0
Mayurbhanj	FW	OFC	WOE	Use of garden tools	01	01	0	0	0	0	0	25	0	0
Mayurbhanj	FW	ONC	HOF	Package and practices of Papaya and Banana	01	02	11	0	14	0	0	0	0	0
Mayurbhanj	FW	ONC	HOV	Off season vegetable cultivation	03	04	29	03	20	03	20	0	0	0
Mayurbhanj	FW	OFC	HOF	Nursery raising techniques in papaya and drumstick	01	01	19	0	01	0	05	0	0	0
Mayurbhanj	FW	OFC	HOV	Package and practices of cucurbits	01	01	0	0	0	0	18	07	0	0
Mayurbhanj	FW	OFC	HOV	Hybrid vegetable cultivation	01	01	23	0	0	0	02	0	0	0
Mayurbhanj	FW	OFC	HOV	Nursery raising technique in vegetables	02	02	0	0	19	0	31	0	0	0
Mayurbhanj	FW	ONC	HOO	Commercial cultivation of flowers	01	02	09	0	08	0	08	0	0	0
Mayurbhanj	FW	OFC	HOF	Pruning and training in mango	01	01	04	0	01	0	20	0	0	0
Mayurbhanj	FW	OFC	HOV	Hormone and micro nutrient application in vegetables	01	01	08	01	14	0	02	0	0	0
Mayurbhanj	FW	OFC	HOF	Propagation techniques of Mango	01	01	23	0	02	0	0	0	0	0
Mayurbhanj	FW	OFC	HOV	Grading, sorting and packaging of vegetables	01	01	0	0	0	0	25	0	0	0
Mayurbhanj	FW	OFC	HOF	Planting techniques of tissue cultured Banana	01	01	0	0	0	0	25	0	0	0
Mayurbhanj	FW	OFC	AEG	Use and operation of power weeder in vegetable cultivation	01	01	18	0	07	0	0	0	0	0
Mayurbhanj	FW	OFC	AEG	Mechanized transplanting and use of self propelled transplanter	01	01	23	0	0	0	02	0	0	0
Mayurbhanj	FW	OFC	AEG	Use and operation of different low land weeder	01	01	09	0	08	0	08	0	0	0
Mayurbhanj	FW	OFC	AEG	Water management in paddy cultivation	01	01	19	0	06	0	0	0	0	0

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	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
Mayurbhanj	FW	OFC	AEG	Use, operation and maintenance of seed drill/planters	01	01	0	0	0	0	25	0	0	0
Mayurbhanj	FW	OFC	AEG	Use and operation of different harvesting implements in paddy	01	01	05	0	0	0	20	0	0	0
Mayurbhanj	FW	OFC	AEG	Use and operation of different threshing implements	01	01	09	0	01	0	15	0	0	0
Mayurbhanj	FW	OFC	AEG	Use and operation of different implements for groundnut cultivation	01	01	22	0	0	0	03	0	0	0
Mayurbhanj	FW	OFC	AEG	Use and operation of different implements for pulse cultivation	01	01	0	0	0	0	25	0	0	0
Mayurbhanj	FW	OFC	AEG	Use, operation and maintenance of drip and sprinkler irrigation systems	01	01	25	0	0	0	0	0	0	0
Mayurbhanj	FW	OFC	AEG	Use, operation, care and maintenance of different plant protection equipments	01	01	0	0	0	0	25	0	0	0
Mayurbhanj	RY	ONC	HOT	Commercialization of Tuber Crops	01	02	25	0	0	0	0	0	0	0
Mayurbhanj	RY	ONC	HOV	Seed production in vegetable crops	01	02	01	0	02	0	22	0	0	0
Mayurbhanj	RY	ONC	HOV	Hi-tech Horticulture and precision farming	01	04	07	0	02	0	01	0	0	0
Mayurbhanj	RY	ONC	PLP	Entrepreneurship development in Apiculture	01	04	03	0	0	0	07	0	0	0
Mayurbhanj	RY	ONC	PLP	Production of Neem-oil cake and other bio-pesticides in commercial basis	01	02	12	0	0	0	13	0	0	0
Mayurbhanj	RY	ONC	WOE	Mushroom production in entrepreneurial basis	01	02	0	04	0	10	0	11	0	0
Mayurbhanj	RY	ONC	WOE	Preparation of value added products from sabai grass	01	04	0	10	0	08	0	04	0	03
Mayurbhanj	RY	ONC	AEG	Entrepreneurship development through farm mechanization	01	04	08	0	0	0	02	0	0	0
Mayurbhanj	RY	ONC	AEG	Use, operation and maintenance of different farm machineries for reducing labour cost and cost economics of custom hiring	01	02	01	0	0	0	09	0	0	0
Mayurbhanj	IS	ONC	PLP	IPM and IDM strategies in sustainable paddy cultivation	01	02	07	0	04	03	0	04	09	0
Mayurbhanj	IS	ONC	AEG	Farm mechanization in paddy cultivation and general maintenance of farm machineries	01	02	08	01	06	02	0	05	08	0
Mayurbhanj	IS	ONC	WOE	Women friendly tools and equipments for drudgery reduction	01	02	0	12	0	03	0	05	0	0
Mayurbhanj	IS	ONC	HOF	Commercial floriculture	01	02	09	02	02	0	03	0	09	0
Mayurbhanj	IS	ONC	CBD	Training management	01	02	07	0	04	0	02	02	08	0
Mayurbhanj	IS	ONC	CBD	Use of audio-visual aids in extension methods	01	02	07	02	03	03	05	04	06	0
Mayurbhanj	IS	ONC	PLP	IPM and IDM in vegetable crops	01	02	08	04	03	04	05	02	0	04
Mayurbhanj	IS	ONC	AEG	Use, operation and maintenance of improved agricultural implements for oilseed and pulse crops	01	02	11	0	0	03	0	04	08	0

Table 5.3 Details of Vocational training programmes for Rural Youth conducted by the KVKs

Name of KVK	Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)	Number of Beneficiaries					
					SC		ST		Others	
					M	F	M	F	M	F
Mayurbhanj	Commercialization of Tuber Crops	Crop	Value addition of fruits & vegetables	02	0	0	0	0	25	0
Mayurbhanj	Seed production in vegetable crops	Crop	See production programme in paddy and vegetables	02	02	0	22	0	01	0
Mayurbhanj	Hi-tech Horticulture and precision farming	Enterprise	Hi-tech Horticulture and precision farming	04	02	0	01	0	07	0
Mayurbhanj	Entrepreneurship development in Apiculture	Enterprise	Bee-keeping	04	0	0	07	0	03	0
Mayurbhanj	Production of Neem-oil cake and other bio-pesticides in commercial basis	Enterprise	IPM and IDM in field crops and vegetables	02	0	0	13	0	12	0
Mayurbhanj	Mushroom production in entrepreneurial basis	Enterprise	Mushroom production	02	0	10	0	11	0	04
Mayurbhanj	Preparation of value added products from sabai grass	Enterprise	Value addition	04	0	08	0	04	0	13
Mayurbhanj	Entrepreneurship development through farm mechanization	Enterprise	Farm mechanization	04	0	0	02	0	08	0
Mayurbhanj	Use, operation and maintenance of different farm machineries for reducing labour cost and cost economics of custom hiring	Enterprise	Farm mechanization	02	0	0	09	0	01	0
Mayurbhanj	Value addition of milk	Livestock	Value addition of milk	04	02	0	01	0	22	0
Mayurbhanj	Entrepreneurship development in Farm Mechanization	Enterprise	Entrepreneurship development	45	0	0	09	0	16	0

Table 5.4. Details of training programme conducted for livelihood security in rural areas by the KVKs

Name of KVK	Training title	Self employed after training			Number of persons employed elsewhere
		Type of units	Number of units	Number of persons employed	
Mayurbhanj	Preparation of value added products from tomato	Commercial	06	06	03
Mayurbhanj	Nursery raising technique in vegetables	Commercial	19	19	
Mayurbhanj	Commercial cultivation of flowers	Commercial	05	15	
Mayurbhanj	Propagation techniques of Mango	Commercial	06	12	05
Mayurbhanj	Commercialization of tuber crops	Commercial	16	16	
Mayurbhanj	Seed production in vegetable crops	Commercial	07	18	
Mayurbhanj	Hi-tech Horticulture and precision farming	Commercial	02	06	
Mayurbhanj	Entrepreneurship development in Apiculture	Commercial	12	12	
Mayurbhanj	Production of Neem-oil cake and other bio-pesticides in commercial basis	Commercial	03	06	
Mayurbhanj	Mushroom production in entrepreneurial basis	Commercial	11	21	06
Mayurbhanj	Preparation of value added products from sabai grass	Commercial	10	10	
Mayurbhanj	Entrepreneurship development through farm mechanization	Commercial	05	05	02
Mayurbhanj	Use, operation and maintenance of different farm machineries for reducing labour cost and cost economics of custom hiring	Commercial	05	05	

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/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		
Mayurbhanj	Value addition of milk	Livestock Production and Management	Value addition	F/FW	04	01	22	0	02	0	01	0	ATMA, Mayurbhanj	38,450/-
Mayurbhanj	Entrepreneurship development in Farm Mechanization	Agril. Engineering	Entrepreneurship development	RY	45	01	16	0	0	0	09	0	State Employment Mission, Orissa	3,16,750/-
Mayurbhanj	Training-cum-workshop on potato	Cultivation of Tuber crops	High value crop planting	F/FW	02	01	0	0	0	0	1368	132	Central Potato Research Institute, Shimla,	7,05,000/-
Mayurbhanj	Mushroom cultivation, processing and value addition	Mushroom cultivation	Entrepreneurship development	RY	07	01	10	0	0	0	0	0	Nehru Yuva Kendra	-

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/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	
Mayurbhanj	Package and practices of Papaya and Banana	25	30	80	380	670	1,50,000	2,69,370	Area expanded (ha)- 20
Mayurbhanj	Off season vegetable cultivation	75	50	80	90	150	1,20,000	2,20,000	Area expanded (ha) - 30
Mayurbhanj	Commercial cultivation of tuber crops (RY)	25	20	70	70	160	60,000	1,50,000	Area expanded (ha)- 7.0
Mayurbhanj	Hybrid vegetable cultivation	25	45	90	1401	310	70,000	1,90,000	Area expanded (ha)- 24
Mayurbhanj	Commercial cultivation of flowers	25	20	80	9.0	17	37,000	64,000	Area expanded (ha)- 9
Mayurbhanj	Seed production in vegetable crops (RY)	25	30	85	1.25	1.90	70,000	98,000	Area expanded (ha)- 30
Mayurbhanj	Hi-tech horticulture and precision farming (RY)	10	10	60	-	-	0	50,000	Area expanded (ha)- 3.5
Mayurbhanj	Propagation techniques of mango	25	20	70	-	-	0	70,000	Area expanded (ha)- 46
Mayurbhanj	Grading, sorting and packaging of vegetables	25	30	60	-	-	60,000	68,000	Area expanded (units)- 09
Mayurbhanj	Planting techniques of tissue cultured Banana	25	40	75	1900 bunch	2450 bunch	2,30,000	3,50,000	Area expanded (ha)- 10
Mayurbhanj	Package and practices of cucurbits	25	35	60	170	220	60,000	90,000	Area expanded (ha)- 28
Mayurbhanj	Plant protection techniques of Arhar	25	45	80	8.5	12.0	32,000	46,000	Area expanded (ha)- 15
Mayurbhanj	Plant protection techniques of Groundnut	25	30	75	17.5	25.0	36,000	55,000	Area expanded (ha)- 55
Mayurbhanj	Plant protection techniques of Green gram	25	40	75	4.5	7.5	15,500	26,000	Area expanded (ha)- 64

Mayurbhanj	Management of pests and diseases in Paddy by Integrated Methods	25	30	80	40.0	43.5	23,000	26,500	Area expanded (ha)- 48
Mayurbhanj	Management of Fruit-borer and Sucking pests in Okra	25	25	80	48.0	84.0	30,000	65,000	Area expanded (ha)- 18
Mayurbhanj	Spraying techniques in paddy	25	45	80	42.0	45.5	24,000	27,500	Area expanded (ha)- 44
Mayurbhanj	Sucking pest management in Okra, Brinjal, Tomato and Chilli	25	20	70	84.0	146.0	60,000	1,22,000	Area expanded (ha)- 32
Mayurbhanj	Management of fruit fly in Pumpkin	25	35	60	160.0	240.0	65,000	96,000	Area expanded (ha)- 25
Mayurbhanj	Management of fruit and shoot borer in Okra, Tomato, Brinjal and Chilli	25	10	70	94.0	167.0	74,000	1,42,000	Area expanded (ha)- 54
Mayurbhanj	Management of various diseases in Banana and Papaya	25	10	55	375	640	1,40,000	2,59,372	Area expanded (ha)- 15
Mayurbhanj	Bio-pesticides for controlling pests and diseases in vegetable crops	25	15	60	86.0	168.0	70,000	1,45,000	Area expanded (ha)- 35
Mayurbhanj	Entrepreneurship development in Apiculture	25	20	50	18 kg	34 kg	3,000/ year	5,600/ year	38 new farmers initiated apiculture
Mayurbhanj	Production of Neem-oil cake and other bio-pesticides in commercial basis	25	35	70	-	50.0/ annum	-	40,000	03 units started
Mayurbhanj	Cultivation of paddy straw mushroom in entrepreneurial basis	50	30	80	88kg/annum	190 kg/annum	14,080	30,400	15 new units initiated
Mayurbhanj	Cultivation of oyster mushroom in entrepreneurial basis	25	20	75	-	125 kg	-	7,500	08 new units initiated
Mayurbhanj	Preparation of value added products from tomato	25	25	80	-	90 kg/ annum	-	18,000	14 new units started
Mayurbhanj	Preparation of value added products from sabai grass	25	20	60	-	-	-	28,000	12 new units started

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			
Mayurbhanj	Field Day	10	10	247	43	145	44	15	06	Crop production and enterprises	Different crops and enterprises	Different stage
Mayurbhanj	Kisan Mela	02	03	420	240	1398	132	55	15	On campus and Off campus, Potato Workshop		
Mayurbhanj	Kisan Ghosthi	09	01	56	0	94	0	0	0			
Mayurbhanj	Exhibition	02	02	108	40	1460	156	22	04	On campus and Off campus		
Mayurbhanj	Film Show	30	14	283	50	390	27	0	0	Training programme		
Mayurbhanj	Workshop	0	01	0	0	1368	132	0	0	Potato cultivation		
Mayurbhanj	Group meetings	40	40	154	15	194	37	0	0			
Mayurbhanj	Lectures delivered as resource persons	20	20	156	83	168	43	26	08	Farmer-Scientist interaction, Farmers school	SRI, IPM, IDM, IWM	
Mayurbhanj	Newspaper coverage	10	42									
Mayurbhanj	Radio talks	10	08							AIR, Baripada		
Mayurbhanj	TV talks	0	02									
Mayurbhanj	Popular articles	05	03									
Mayurbhanj	Extension Literature	10	10									

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			
Mayurbhanj	Farm advisory Services	35	97	37	08	45	07	0	0			
Mayurbhanj	Scientific visit to farmers field	75	175	61	02	103	09	0	0			
Mayurbhanj	Farmers visit to KVK	250	294	121	32	116	25	0	0			
Mayurbhanj	Diagnostic visits	20	53	72	06	181	09	0	0			
Mayurbhanj	Ex-trainees Sammelan	08	08	69	23	80	28	0	0			
Mayurbhanj	Soil health Camp	02	01	11	0	13	06	01	0			
Mayurbhanj	Animal Health Camp	01	01	06	01	18	03	03	0			
Mayurbhanj	Plant Health Camp	0	01	13	0	25	02	01	01			
Mayurbhanj	Soil test campaigns	01	01	26	0	17	0	01	01			
Mayurbhanj	Farm Science Club conveners meet	01	01	57	12	76	25	04	01			
Mayurbhanj	Self Help Group conveners meetings	01	01	0	69	0	46	04	01			
Mayurbhanj	Celebration of important days	03	03	134	28	146	47	08	06	Akhyaya Trutiya Women in Agril. Day World Food Day		

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 hear 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
Mayurbhanj	Cereals	Paddy	MTU 7029	SD	640.0	qtl	14,49,000	OSSC
Mayurbhanj	Pulse	Green gram	OBGG-52	SD	4.0	qtl	24,000	48*
Mayurbhanj	Fruits	Papaya	Honey Dew	PM	967	Nos.	6,769	63
			Red lady	PM	1250	Nos.	25,000	10
Mayurbhanj	Vegetables	Chilli	Haldiakhadi	PM	6250	Nos.	2,800	51
Mayurbhanj	Vegetables	Brinjal	Blue star, Green Star	PM	22650	Nos.	9,600	78
Mayurbhanj	Vegetables	Tomato	JK Desi, Laxmi, Saksham, VL-642	PM	13200	Nos.	5,760	65
Mayurbhanj	Vegetables	Cauliflower	Barkha, Megha	PM	14550	Nos.	6,420	42
Mayurbhanj	Vegetables	Cabbage	Konark, Indu, Disha, Blue Vintage	PM	13500	Nos.	6,000	58

*48 number of farmers includes 15 nos. of beneficiaries of FLD on Greengram and 33 nos. of other farmers

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	
Mayurbhanj	Cereals	Paddy	01 st to 07 th July 2011	Ist to IVth wk, Dec	18.0	MTU 7029	SD	640.0	7,02,500	14,49,000	
Mayurbhanj	Pulses	Green gram	2 nd to 4 th Feb 2012	IV week of April	2.0	OBBG-52	SD	4.0	20,000	24,000	

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	
Mayurbhanj	BIOAGENTS				
	BIOFERTILIZERS	12 q	2000		Stock in hand
	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	
Mayurbhanj	Poultry	Banaraja	21 Days old chicks	3770	1,62,110	1,90,108	
Mayurbhanj	Fisheries						

8. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab: NR

Year of establishment: NR

8.1 Details of soil & water samples analyzed so far :

KVK Name	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized

9. Rainwater Harvesting: Not Available

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

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

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

KVK Name	No. of messages sent	No. of beneficiary		Major recommendations
		Farmers	Ext. Pers.	
Mayurbhanj	44	1546	27	<ul style="list-style-type: none"> • Sowing dates of various field crops. • Suitable varieties of field crops, fruits and vegetables. • Package of practices for important crops. • IPM and IDM of field crops, fruits and vegetables. • Appropriate contingent measures to be taken in case of any exigencies. • Invitation for need-based training programmes. • Weather forecast • Farm mechanization • Mushroom production

11. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Mayurbhanj	17.09.2012	19	<ol style="list-style-type: none"> 1. Impact analysis should be done on KMAS service. 2. Brown manuring should be encouraged in integrated nutrient management to reduce the pressure on chemical fertilizer use. 3. Activities should be made on lac cultivation and a Scientist should be deputed for training at Indian Lac Research Institute, Ranchi, if required. 4. OFT & FLD should be designed on sweet potato and capsicum. 5. OFT may be conducted on Kharif cauliflower and cabbage. 6. Income generation activities may be designed for the SHGs. 7. Activities to be initiated for crop diversification in uplands. 8. Bio-pesticides should be recommended for the periphery of Similpal bio-reserve sanctuary as per Govt. of India guidelines. 9. OFT / FLD should be conducted on the milk yield in dairy animals by feeding azolla. 10. Breeding improvement programme may be initiated. 11. Training may be organized for well decomposed FYM to reduce the transmission of weed seeds to the field. 12. Technology generated by KVK should be maintained in the register and communicated to the line departments. 13. KVK has to make an analysis on the scarcity of major vegetables in the local market and design programme accordingly to make available. 14. To study the water conservation measures in mango. 15. KVK should hire the service of SMS from KVK ring for other need based activities and not to design programme as per the availability of scientist of KVK. 16. Programme should be designed keeping the view of the need of the maximum farming community.

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

12.1 KVK Newsletters

KVK Name	Date of start	Type	Number of copies printed	Number of copies distributed
Mayurbhanj	March'2012	Quarterly	500	495
Mayurbhanj	June'2012	Quarterly	500	478
Mayurbhanj	September'2012	Quarterly	500	482
Mayurbhanj	December'2012	Quarterly	500	485

12.2 Details of Electronic Media Produced

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

12.3 PUBLICATIONS

Category	Number	Date of start	Periodicity	Number of copies to be printed	Number of copies to be distributed
Research Paper	0				
Technical bulletins	10				
Technical reports	12				
Popular article	03				Mass coverage
News paper coverage	42				Mass coverage
Year Planner			Yearly	10	10
Others (pl. specify)					

13. Status of Convergence with various agricultural schemes (Central & State sponsored)

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs.)	Activities organized	Operational Area	Remarks
Mayurbhanj	ATMA	State	2,53,450/-	Conducting on farm trials, Organizing skill oriented vocational training programmes, Farmers' fare and Workshop on Potato	Mayurbhanj district	
Mayurbhanj	BGREI	Central		Monitoring of demonstrations	Morada, GBnagar, Kuliana and Baripada blocks	Balance fund from 2011-12 was utilized towards monitoring
Mayurbhanj	MNREGA	State	-	Project planning for convergence	Shamakhunta block	
Mayurbhanj	NHM			Member of Governing board	Mayurbhanj district	
Mayurbhanj	State Employment Mission	State	3,16,750/-	Skill oriented training programme on "Entrepreneurship development in Farm Mechanization"	Mayurbhanj district	45 days long duration training
Mayurbhanj	CPRI, Shimla	Central	7,05,000/-	Training-cum-Workshop on Potato	Mayurbhanj district	Under TSP scheme

14. Utilization of Farmers Hostel facilities:

Accommodation available (No. of beds): 20 nos

KVK Name	Months	Year	Title of the training course	Duration of training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall
Mayurbhanj	April	2012	Management of pests and diseases in paddy by integrated methods	02 days	25	02	
Mayurbhanj	April	2012	Package and practices of papaya, drumstick and banana	02 days	25	02	
Mayurbhanj	June	2012	Commercialization of tuber crops	02 days	25	02	
Mayurbhanj	June	2012	IPM and IDM strategies in sustainable paddy cultivation	02 days	27	02	
Mayurbhanj	July	2012	Entrepreneurship development through farm mechanization	04 days	10	04	
Mayurbhanj	July	2012	Value addition of milk	04 days	25	04	
Mayurbhanj	July	2012	Mushroom production in entrepreneurial basis	02 days	25	02	
Mayurbhanj	July	2012	Farm mechanization in paddy cultivation and general maintenance of farm machineries	02 days	30	02	
Mayurbhanj	August	2012	Women friendly tools and equipments in drudgery reduction	02 days	20	02	
Mayurbhanj	September	2012	Application of <i>T. viridae</i> in nursery management	02 days	25	02	
Mayurbhanj	September	2012	Cultivation of commercial flowers	02 days	25	02	
Mayurbhanj	September	2012	Entrepreneurship development in Apiculture	04 days	10	04	
Mayurbhanj	October	2012	Seed production in vegetable crops	02 days	25	02	
Mayurbhanj	November	2012	Cultivation of oyster mushroom for additional income generation	02 days	25	02	
Mayurbhanj	November	2012	Preparation of value-added products from Sabai grass	04 days	15	04	
Mayurbhanj	November	2012	Commercial floriculture	02 days	25	02	
Mayurbhanj	November	2012	Preservation of fruits and vegetables (Gram Swaraj, Baripada)	05 days	10	05	
Mayurbhanj	December	2012	Training management	02 days	23	02	
Mayurbhanj	January	2013	Hi-tech horticulture and precision farming	04 days	10	04	
Mayurbhanj	January	2013	Use of audio-visual aids in extension methods	02 days	30	02	
Mayurbhanj	January	2013	IPM and IDM in vegetable crops	02 days	30	02	
Mayurbhanj	January	2013	Nehru Yuva Kendra	43 days	25	43	
Mayurbhanj	February	2013	Use, operation, care and maintenance of different farm machineries for increase productivity, reducing labor cost and cost economics	02 days	25	02	
Mayurbhanj	March	2013	Cultivation of paddy straw mushroom in entrepreneurial basis	02 days	25	02	
Mayurbhanj	March	2013	Use, operation and maintenance of improved agricultural implements for oilseed and pulse crops	02 days	26	02	

15. Utilization of Staff Quarters facilities : Not Available

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
Mayurbhanj					

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	Mayurbhanj	Yes	ZPD/DES

b) Details about Technology Park

Name of KVK	Name of Component of Park	Detail Information (If established)
Mayurbhanj	Crop Cafeteria	Vegetables, floriculture, fodder
Mayurbhanj	Technology Desk	
Mayurbhanj	Visitors Gallery	
Mayurbhanj	Technology Exhibition	
Mayurbhanj	Technology Gate-Valve	

c) Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria

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	Mayurbhanj	Lipsa Mohanty	Poultry farming with feed preparation	Kansapal, Bangiriposi, 9437461661
2	Mayurbhanj	Sukhdev Singh	Small farm tool development from locally available scrap metals	Nadigaon, Suliapada, 9178436673
3	Mayurbhanj	Hemant Biswal	Sabai grass processing machine	Bhaskar Engg. Works, Betnoti, 8270557568
4	Mayurbhanj	Nagendra Maharna	Vegetable mixed farming	Madhunanda, Betnoti, 9853076922
5	Mayurbhanj	Gourahari Mohanta	Dairy development	Karanjia, Shyamakhunta, 9937606066
6	Mayurbhanj	Sudhir Kumar Acharya	Intercropping of Cereal, pulse and vegetables	Belam, Badasahi, 9439883090
7	Mayurbhanj	Nabin Mohanta	Handmade drip irrigation system for fruit plantation	Bholagadia, Shyamakhunta, 9439094429
8	Mayurbhanj	Kalpna Bindhani	Novel preparation of value added products from vegetables and fruits	Deulasahi, Baripada, 9861456703
9	Mayurbhanj	Geetarani Mohanty	Paddy straw mushroom production by using sterilized compost	RUCHI MUSHROOM, Takatpur, Baripada, 9861317115
10	Mayurbhanj	Rajat Satpathy	Value addition of milk	PURAVI DAIRY, ABCpur, Badasahi, 9438232353

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 participated

19. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
KVK, MAYURBHANJ	08	14	26	239

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	Balasure	Seed production programme, backyard poultry	Mutual help making the activities easier
2	Bhadrak	Pisciculture, mushroom spawn production and value addition	Facilitation of sharing of technology

22. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	Remarks
Mayurbhanj	Sj. Sananda Marandi, Hon'ble Deputy Speaker, OLA	24.04.2012	Chief Guest on the occasion of Akshaya Tritiya
Mayurbhanj	Sj. Naba Kumar Nayak, IAS, Collector and DM, Mayurbhanj	24.04.2012	Hon'ble Guest on the occasion of Akshaya Tritiya
Mayurbhanj	Sj. Gangadhar Das, JD, Agril. (Admin.)	24.04.2012	Hon'ble Guest on the occasion of Akshaya Tritiya
Mayurbhanj	Sj. Rajesh Prabhakar Patil, IAS, Collector and DM, Mayurbhanj	23.02.2013	Chief Guest on the occasion of Potato training
Mayurbhanj	Dr. N. K. Pandey, PS & HOD, Division of Social Sciences, CPRI, Shimla	22 & 23.02.2013	Organizing Kisan Mela-cum-Training on Potato
Mayurbhanj	Joe Rickman, IRRI, East and Southern Africa	10.03.2013	Field survey under SCISA project
Mayurbhanj	Frank Mussgnug, IRRI, India, Hyderabad	10.03.2013	Field survey under SCISA project

23. Status of KVK Website

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Mayurbhanj	22.01.2011	15	550

24. Status of RTI : N/A

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals
1	Mayurbhanj	Nil	Nil

25. E-CONNECTIVITY (ERNET Lab) - NA

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			

26. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS -21.02.2013 to 27.02.2013

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Mayurbhanj	Gosthies	01	150	
Mayurbhanj	Lectures organized	09	1500	Potato
Mayurbhanj	Exhibition	02	1790	
Mayurbhanj	Film show	14	750	
Mayurbhanj	Fair	03	2260	
Mayurbhanj	Farm Visit	175	1612	
Mayurbhanj	Diagnostic Practical's			
Mayurbhanj	Distribution of Literature (No.)	10	6000	Potato, Mushroom, Mahua, Vegetables, Paddy
Mayurbhanj	Distribution of Seed (q)			
Mayurbhanj	Distribution of Planting materials (No.)	73,517		Brinjal, Chilli, Tomato, Cauliflower, Cabbage, Papaya, Mushroom spawn
Mayurbhanj	Bio Product distribution (Kg)			
Mayurbhanj	Bio Fertilizers (q)			
Mayurbhanj	Distribution of fingerlings (No)			
Mayurbhanj	Distribution of Livestock specimen (No.)	3,770		21 day old Banaraja poultry chicks
Mayurbhanj	Total number of farmers visited the technological week	06	2111	Agripreneurs' meet cum Farmers' fare, Potato workshop, Awareness campaign, Soil health camp, Animal health camp, Plant health camp
Mayurbhanj	Others			
Mayurbhanj	SHG Sammelan	01	120	
Mayurbhanj	Famers' Club convention	01	175	

Mayurbhanj	Farmers-Scientist Interaction	01	290	
Mayurbhanj	Soil test campaign/soil health camp	01	30	
Mayurbhanj	Animal health camp	01	28	
Mayurbhanj	Plant health camp	01	40	
Mayurbhanj	Awareness camp	03	223	

27. INTERVENTIONS ON DROUGHT MITIGATION

(a) Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries
Mayurbhanj	Pigeon pea	18	42
Mayurbhanj	Oat	2	10
Mayurbhanj	Maize	68	116

(b) Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
Mayurbhanj	Oilseeds	10	50
Mayurbhanj	Pulses	15	58
Mayurbhanj	Cereals		
Mayurbhanj	Vegetable crops		
Mayurbhanj	Tuber crops		
Mayurbhanj	Fruits		
Mayurbhanj	Spices		
Mayurbhanj	Cotton		
	Total	25	108

(c) Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No.of participants
Mayurbhanj	Dairy Management	01	73
Mayurbhanj	Disease management		
Mayurbhanj	Feed and fodder technology		
Mayurbhanj	Poultry management		

(d) Animal health camps organised

Name of KVK	Number of camps	No.of animals	No.of farmers
Mayurbhanj	01	429	40

(e) Seed distribution in drought hit states

Name of KVK	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Mayurbhanj	Paddy	550	1100	350
Mayurbhanj				
Mayurbhanj				

(f) Seedlings and Saplings distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
Seedlings				
Mayurbhanj	Papaya	2410		56

Mayurbhanj	Chilli	4800		68
Mayurbhanj	Brinjal	10800		175
Mayurbhanj	Tomato	11700		158
Mayurbhanj	Cauliflower	8100		123
Mayurbhanj	Cabbage	6300		128

(g) Bio-control Agents

Name of KVK	Bio-control Agents	Quantity (q)	Coverage of Area (ha)	No. of farmers
Mayurbhanj				

(h) Bio-Fertilizer

Name of KVK	Bio-Fertilizer	Quantity (kg)	Coverage of Area (ha)	No. of farmers
Mayurbhanj	Vermin compost	1200	-	-

(i) Vermis Produced

Name of KVK	Vermis Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers
Mayurbhanj				
Mayurbhanj				

(j) Large scale adoption of resource conservation technologies

Name of KVK	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Mayurbhanj			
Mayurbhanj			

(k) 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
Mayurbhanj	3	480			10	511	2	350	2	440	04	226

28. Proposal of NICRA - NA

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) - NIL****30. Status of Revolving Funds (Rs.)**

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Mayurbhanj	30490126394 (SBI, Shyamakhunta)	11,419/-	4,63,957/-	Stock in hand of about 14.5 lakhs

31. Awards & Recognitions

KVK Name	Name of award / Awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Mayurbhanj	Mr. Narendra Kumar Behera, Dabak, Block: Khunta	Farmer (Best farmer in the country in the category of Maize as grain crop)	ASPEE India ltd, Mumbai	Rs. 1,00,000/-*

32. Case study and Success Story – Two best only in the following format

Case Study-1

Title: Journey of an woman entrepreneur in the field of value addition and food processing

Name: Smt. Kalpana Bindhani

Prop. M/s. Sai Swadesi Home Products, Deulasahi, Baripada, Dist-Mayurbhanj

Introduction:

Smt. Bindhani with an educational qualification of intermediate belonged to a lower middle class family which runs by a small business. Her family was passing through severe economical hardship in earlier days. From her childhood, she had a great interest towards making home made products which motivated her to earn money by making value added products from various fruits and vegetables.

KVK Intervention:

Once she approached Krishi Vigyan Kendra, Mayurbhanj and was imparted vocational training on “Value addition and food processing” in the year 2006. She was again sponsored to Department of Post Harvest Technology, CAET, OUAT, Bhubaneswar for skill development on food processing. Role of KVK scientists has been critical in monitoring, motivating and providing mentorship to develop an enterprise on producing value-added and processed products of fruits and vegetables.

Output:

With the technical know-how, she started manufacturing 17 types of processed products like sauce, jam, jelly, squash, pickle, chutney and RTS drinks from various fruits and vegetables and supplied to different government, non-government organizations and market outlets. Later by the demand from the consumers, she started producing certain medicinal and cosmetic preparations like Aloe-vera gel, juice etc. By her sheer perseverance and determination, she has now owned a two storied factory named Sai Swadeshi Home Products which is equipped with all modern food processing facilities. She regularly participated in various exhibitions, farmers’ fairs, field days, seminars and conferences which provide recognition to her efforts as an entrepreneur.

Outcome and Impact

Her industry is now processing an average of 100 quintals of raw material and generating around 5 lakh rupees per annum. She not only gained livelihood but also name and fame for her family and was able to give livelihood to 10 numbers of poor women for hiring of their labour round the year. Her achievement has been recognized by various government and non-government agencies, societies and organizations in the form of many awards and mementos. Her case illustrates very well what a resource poor and socially neglected woman can achieve with her perseverance, determination and hard work.

Success Story-2

Title: Integrated Farming System – A mean for risk free life of a farmer

Name : Bhaskar Chandra Jena
Father's Name : Late Padmalochan Jena
Age : 76 years
Educational Qualification : Post Graduate (Pol.Sc.) and Diploma in Industrial technology
Address : Village- Sibajamuni, Block : Shyamakhunta, District: Mayurbhanj
Contact No. : +91-9861397074
Total Holding Area : 18.5 acre (Irrigated)

Crop/Enterprise	Season/Specification	Area (Acre)
Paddy	Kharif	13.0
Wheat	Rabi	1.0
Green gram and Black gram	Rabi	12.0
Ponds	03 nos.	3.0
Orchard	Coconut, mango, litchi, limes, Sapota and forest species	2.5
Infrastructure	Farm house, Garage, Godown, Poultry, Duckery and Dairy Units	1.0

Farm Machineries possessed:

1.Paddy Thresher (Manual operated): 01 no.	2. Paddy Thresher (Power operated) : 01 no.
3.Axial Flow Thresher : 01 no.	4. Power Tillers : 02 nos.
5.Diesel Pump sets : 02 nos.	6. Straw Chopper : 01 no.
7. hp Electric Pump : 01 no.	8.Sprinkler set : 02 nos.

About the entrepreneur :

Born in 1935, Mr. Jena holds a well to do familiar background. He is not only a nature lover but also a writer, film maker and artist. Retired from the post of General Manager, NMTL, GOI Pilot Project in 1994, he renovated the parental farm house. Subsequently, he discovered himself as a good entrepreneur when he started fishery in commercial basis. With the help of his two sons and surrounding people, he also developed himself as a very good farmer of various field crops and horticultural crops. Later he practiced animal resources to make his farming system complete and integrated.

With a natural habit of growing different species of crop plants, he collected numerous species of medicinal plants, rare fruit species and various exotic forest species like Australian Teak, Malasian Sal, American Silver Oak, British Mahogany, Anato (Gives natural edible colour), and Seedless Lemon in the local climatic condition.

A very eager man to learn, he attends each and every trainings, workshops and seminars related to agriculture in line departments as well as in KVK. At the age of 76, he spends at least 5 hours in the field working actively with his labourers. As regards to a very efficient community organizer in the field of

agriculture he patronizes as President of “Mayurbhanj Krushak Vikas Pratisthan” and Chairman of “Mayurbhanj Farmers Self Help Consumers Co-operative Society ltd.”

Salient Features of Integrated farming System Developed by Mr. Bhaskar Chandra Jena

Crop/ Enterprises	Area / Unit	Before KVK intervention				After KVK intervention				Remark
		Gross income	Expenditure	Net Profit	B:C ratio	Gross income	Expenditure	Net Profit	B:C ratio	
A. Field Crops										
Paddy	13.0 Ac.	1,90,000/-	1,04,000/-	86,000/-	1.83	2,25,000/-	91,000/-	1,34,000/-	2.47	
Wheat	1.0 Ac.	8,500/-	5,000/-	3,500/-	1.7	11,000/-	5,000/-	5,500/-	2.2	
Black gram and Green gram	12.0 Ac.	63,000/-	38,000/-	25,000/-	1.66	84,000/-	40,000/-	44,000/-	2.1	
B. Fruit Crops										
Mango	150 nos.	60,000/-	23,000/-	37,000/-	2.61	75,000/-	25,000/-	50,000/-	3.0	
Coconut	270 nos.	35,000/-	10,000/-	25,000/-	3.5	38,000/-	10,000/-	28,000/-	3.8	130 plants are in fruiting stage
Others	112 nos.	-	-	-	-	26,000/-	6,000/-	20,000/-	4.33	Papaya, Litchi, Sapota, Limes, Guava etc.
C. Animal Resources										
Dairy	05 nos.					36,500/-	15,000/-	21,500/-	2.43	
Poultry	1,000 per batch	-	-	-	-	2,30,000/-	1,10,000/-	1,20,000/-	2.09	He possesses a brooding unit upto 21 days for banaraja chicks
Duckery	800 per batch	-	-	-	-	1,44,000/-	64,000/-	80,000/-	2.25	Khaki Campbell breed is reared for 21 days. In an average 4000 birds reared per annum.
Fishery	3.0 Ac.	90,000/-	40,000/-	50,000/-	2.25	1,20,000/-	45,000/-	75,000/-	2.67	Colour fish breeding/ brooding, Fingerling/ yearling production unit is in progress

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 separately