



ANNUAL PROGRESS REPORT

2012-13



O.U.A.T

KRISHI VIGYAN KENDRA, KENDRAPARA

REPORTING PERIOD – April 2012 to March, 2013

Summary of achievements during the reporting period

KVK Name	Activity	Target		Achievement	
		Number of activity	No. of farmers/ beneficiaries	Number of activity	No. of farmers/ beneficiaries
Kendrapara	OFTs	20	162	20	162
	FLDs – Oilseeds (activity in ha)	1 (5ha)	15	1(5 ha)	15
	FLDs – Pulses (activity in ha)	2 (10ha)	30	2 (10ha)	30
	FLDs – Cotton (activity in ha)	-	-	-	-
	FLDs – Other than Oilseed and pulse crops(activity in ha)	20	183	20	183
	FLDs – Other than Crops (activity in no. of Unit/Enterprise)	3	55	3	55
	Training-Farmers and farm women	60	1500	60	1500
	Training-Rural youths	16	305	16	305
	Training- Extension functionaries	11	180	11	180
	Extension Activities	823	-	955	
	Seed Production (Number of activity as seeds in quintal)	156		196.4	
	Planting material ((Number of activity as quantity of planting material in quintal)	15520		16628	
	Other Bio- products(Vermicompost)	8 qtl	-	9qtl	
	Live stock products	1850	-	1850	-
	SAC Meeting (Date & no. of core/official members	2	60	1	30
	Newsletters (no.)	4	2000	4	2000
	Publication (Research papers, popular article)			09	-
	Convergence programmes / Sponsored programmes	3	225	3	225
	KVK-ATMA Linkage programme (Number of activities)				
	Outreach of KVK in the District (No. of blocks, no. of villages)	870	1770	870	1770
Soil sample tested	720	-	720	-	
Water sample tested	-	-	-	-	
KMA (No. of messages & beneficiaries)	125	1065	115	1015	

1. GENERAL INFORMATION

1.1. Staff Position (as on 31 March, 2013)

Name of KVK.	Sanctioned post	Name of the incumbent	Discipline	Highest degree	Subject of Specialization	Pay Scale (Rs.)	Present basic (Rs.)	Grade pay	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Others)
Kendrapara	Programme Coordinator	Mrs. Anjali Ray	Home science	M.Sc.	Home science	Rs. 37400- Rs. 67,000/-	48110/-	9000/-	10.01.11 (FN)	Permanent	Others
Kendrapara	Subject Matter Specialist1	Sri Lalita kumar Mohanty	SMS (Agronomy)	M.Sc. Ag	Agronomy	15600/- to 39100/-	20590/-	6000/-	1.08.2011 (FN)	Permanent	Others
Kendrapara	Subject Matter Specialist2	Dr. Debasis Behera	SMS (Horticulture)	M.Sc. Ag Ph.D, Ex. MBA	Horticulture	15600/- to 39100/-	20590/-	6000/-	6.12.2012 (F.N)	Permanent	Others
Kendrapara	Subject Matter Specialist3	Sri Manoj Ku. Rout	SMS (Plant protection)	M.Sc. Ag	Plant pathology	15600/- to 39100/-	19810/-	6000/-	22.10.08 (FN)	Permanent	Others
Kendrapara	Subject Matter Specialist4	Sri Sasanka Lenka	SMS (Agril. Extension)	M.Sc. Ag M.B.A, PGDRD	Agril. Extension	15600/- to 39100/-	16920/-	6000/-	19.4.10 (FN)	Permanent	Others
Kendrapara	Subject Matter Specialist5	Sri Nabakishor Sial	SMS (Fishery science)	M.F.Sc.	Fishery science	15600/- to 39100/-	16920/-	6000/-	18.02.11 (FN)	Permanent	S.C
Kendrapara	Subject Matter Specialist6	Mrs. Namita Mohapatra	SMS (Home Science)	M.Sc.	Home science	15600/- to 39100/-	17610/-	6000/-	12.01.2012 (FN)	Permanent	Others
Kendrapara	Programme Assistant	Smt. Annapurna Saran	Programme Asst (Home science)	B.Sc	Home science	9300/- to 34800/-	19550/-	4200/-	3.07.96 (FN)	Permanent	Others
Kendrapara	Farm Manager	Sri Debasis Nayak	Farm Manager	M.Sc. Ag	Agronomy	9300/- to 34800/-	9710/-	4200/-	28.09.2011 (FN)	Permanent	Others
Kendrapara	Computer Programmer	Mrs. Sangita Panda	Prog. Asst. (Computer)	B.Sc	Comp. science	9300/- to 34800/-	11,470/-	4200/-	11.06.07 (FN)	Permanent	Others
Kendrapara	Accountant / superintendent	Sri Manoranjan Sahoo	Section Officer	B.Sc	-	9300/- to 34800/-	15270/-	4200/-	31.10.2012 (F.N)	Permanent	Others
Kendrapara	Stenographer	Kishore Chandra Das	Jr. Steno cum Comp. Operator	B.Sc	Stenography, DCA	5200/-to 2400/-	6700/-	2400	20.03.08 (FN)	Temporary	Others
Kendrapara	Driver	Nirakar Pradhan	Driver-cum-mechanic	9 th	-	5200/-to 20200/-	6350/-	1900/-	7.01.10 (FN)	Temporary	Others
Kendrapara	Driver	Rajesh Ku. Behera	Driver cum Mechanic	9 th	-	3050-75-3950-80-4590/-	5870/-	1900/-	23.07.08 (FN)	Temporary	SC
Kendrapara	Supporting staff	Babuli Charan Das	peon cum watchman	5 th	-	Rs.4440-Rs.7440+1300/	4990/-	1300/-	29.7.08 (FN)	Temporary	SC
Kendrapara	Supporting staff	Krushna chandra Bhujabal	peon cum watchman	10 th	-	Rs.4440-Rs.7440+ 1300/-	4990/-	1300/-	29.07.08 (FN)	Temporary	OBC

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

The total population of Kendrapara district is 13.02 lakh as per the 2001 census of which S.C population is 2, 67.186(20.5%) & S.T population is 6,822 (0.5%). The population density is 567 per Sq. km. with a sex ratio of 1014 females per 1000 male. The geographical area and the demographic pattern of the district and block is given in the following table.

1. Geographical area	2297.62 sq km.
2. Total population	2001 Census-1302005, Male-646438, Female-655567
3. Density per Sq.km.	567
4. Sex ratio	(female per 1000 male)-1014
5. S.T. Population	6822(0.5%)
6.S.C.Population	267186(20.5%)

BLOCK-WISE AREA AND DEMOGRAPHIC PATTERN OF KENDRAPARA DISTRICT

SI No	Block	Area in Sq. Km	Total population	SC population	ST Population	Literacy rate (%)
1	KENDRAPARA	255.17	178919	37675	706	77.67
2	DERABISH	183.18	129532	31209	503	78.98
3	PATTAMUNDAI	257.26	179924	49140	387	76.57
4	AUL	224.41	136297	30273	133	78.01
5	RAJKANIKA	263.68	126887	27074	10	77.12
6	RAJNAGAR	344.29	145301	16735	1947	71.88
7	MARSHAGHAI	157.58	115103	20959	111	79.08
8	MOHAKALAPARA	469.64	191745	33441	2966	71.90
9	GARADPUR	142.41	98297	20681	59	86.20
	Total	2297.62	1302005	267186	6822	76.81

LAND UTILIZATION PATTERN:

Out of the total geographical area of the district 11% is lying as cultivable waste and fallow. The block wise land utilization pattern is given below.

BLOCK-WISE LAND UTILIZATION PATTERN OF KENDRAPARA DISTRICT

SL NO	Block	Forest Area	Misc. tree Crops & grooves not included in net area sown	Permanent pasture & other grazing land	Culturable waste	Land put to non-agricultural uses	Barren & uncultivable lands	Current fallows	Other fallows	Net Area sown
1	KENDRAPARA	01	372	1351	477	3369	352	998	642	17577
2	DERABISH	05	402	648	243	3576	314	1359	410	14107
3	PATTAMUNDAI	19	123	1354	318	4217	01	1524	1296	13552
4	AUL	44	114	602	25	2811	359	3783	939	6445
5	RAJKANIKA	-	274	1438	39	6268	-	1473	1413	16676
6	RAJNAGAR	663	26	2135	32	5334	734	1227	1215	24668
7	MARSHAGHAI	36	122	905	99	2736	3	1286	256	10130
8	MOHAKALAPARA	3380	934	2543	437	8981	1	1534	2121	26536
9	GARADPUR	14	95	709	170	3125	41	1010	269	8115
	Total	4162	2462	11685	1840	40417	1805	14194	8571	137806

OPERATIONAL HOLDING:

There are 1,27,020 operational house holds in the district. Out of this 116 are large farmers and 75,914 are marginal farmers. The details of the operational holdings are as follows:

OPERATIONAL LAND HOLDINGS OF KENDRAPARA DISTRICT

Sl.No	Class	Total No	Total Area in ha	S.C no	S.C Area in Ha.	S.T no.	S.T Area in Ha.
1	Marginal (< 1 Ha)	75914	37674	20235	11142	590	325
2	Small (1-2 Ha)	33521	46043	2725	3678	354	514
3	Semi-medium (2-4 ha)	14689	39709	751	1877	89	213
4	Medium (4-10 Ha)	2780	15082	74	379	12	58
5	Large (>10 Ha)	116	1935	-	-	-	-
	Total	127020	140443	23785	17076	1045	1110

Sources- Orissa Agricultural Statistics, 2008-09, Director of Agri. & Food production, Orissa, BBSR

SOIL TYPE

Sl. No	Soil type	Characteristics	Area in ha
1	Alluvial	Coarse sand to clay texture, low in WHC, base saturation & fertility, acidic in reaction	152000 ha
2	Saline	Clay to clay loam in texture, low in N & K but medium in P, reduced uptake of K, Ca & Mg by plants due to presence of excess Na, suffers from H ₂ S injury	32350 ha
3	Black	Heavier in texture with more than 30% clay, soil reaction is neutral to slightly alkaline with presence of free CaCO ₃ nodules in profile	15850 ha

AGRO ECOLOGICAL SITUATION

Kendrapara district is located under East & South Eastern Coastal Plain Zone. Basing on physiographic and irrigation pattern Kendrapara district has been divided into four Agro Ecological situations (AES)

Blocks covered under different agro-ecological situations in Dist-Kendrapara

Sl.No	Agro climatic Zone (ACZ)	Agro ecological situation (AES)	Blocks covered	Area in '000 ha	% of geographical area of the zone	Soil Type
1	East & South Eastern Coastal Plain Zone	Coastal Irrigated alluvium (AES-1)	Kendrapara, Garadpur, Derabish, Pattamundai, Aul, Marshaghai, Mahakalpara, Rajkanika, Rajnagar	67.09	33.5	Alluvial (Sandy loam)
2		Rainfed alluvium (AES-2)	Garadpur, Derabish, Pattamundai, Aul, Rajnagar	84.91	42.4	Alluvial (Sandy loam)
3		Coastal alluvial saline (AES-3)	Kendrapara, Pattamundai, Aul, Marshaghai, Mahakalpara, Rajkanika, Rajnagar	32.35	16.1	Saline
4		Coastal waterlogged (AES-4)	Derabish, Marshaghai, Mahakalpara, Rajnagar	15.85	08	Black Soil clay loam

IRRIGATION

The main occupation of the people of the district is cultivation. But no such progress has yet been made in respect of assured irrigation facilities for which agriculture in Kendrapara district still depends on rain.

The district has a total irrigated area of 66307 ha which is about 42 % of the total area, contributed by major irrigation (30%), lift irrigation (6%), Dug wells (2%), & other sources (4%). Block wise irrigation potential of the district from different sources is indicated below.

BLOCKWISE IRRIGATION POTENTIAL OF KENDRAPARA DISTRICT (Figure in ha.)

SI No	Block	Major Source	Lift irrigation	Wells (Dug+Bore)	Others	Total
1	Kendrapara	16240	780	204	650	17874
2	Derabis	10770	290	518	598	12176
3	Pattamundai	10948	984	891	896	13719
4	Aul	-	3682	89	992	4763
5	Rajkanika	-	1676	98	1281	3055
6	Rajnagar	-	791	50	1092	1933
7	Marshaghai	4410	594	99	496	5599
8	Mahakalpara	2810	782	10	744	4346
9	Garadpur	972	792	529	549	2842
	Total	46150	10371	2488	7298	66307

AREA, PRODUCTION AND PRODUCTIVITY OF MAJOR CROPS CULTIVATED IN THE DISTRICT

S. No	Crop	Area (ha)	Production ('000t)	Productivity (Qtl /ha)
1	Paddy	121975	238261	19.53
2	Maize	271	680	15.11
3	Green gram	4138	13970	4.10
4	Black gram	4266	17860	4.85
5	Ground nut	1160	23790	22.70
6	Sun flower	81538	134	6.5
7	Mustard	2143	911	4.80
8	Arhar	50	51	10.20
9	Jute	3312	13410	18.40
10	Brinjal	6110	88595	145
11	Tomato	4358	57874	132
12	Chilli	3670	3128	8.5
13	Cabbage	1706	47111	276
14	Cauliflower	1647	23431	142
15	Okra	1935	16850	87
16	Potato	1202	16407	136
17	Onion	746	6789	91
18	Garlic	637	1910	30
19	Sweet potato	230	1871	81
20	Pea	89	783	88
21	Other vegetables	2212	21796	98
22	Zinger	818	2597	31.75
23	Turmeric	448	1371	30.60
24	Total spices	2924	5911.3	20.22
25	Existing Sugarcane	373	107	106

PRODUCTION AND PRODUCTIVITY OF LIVESTOCK, POULTRY, FISHERIES ETC. IN THE DISTRICT

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	29400	31000 MT/yr(milk)	
<i>Indigenous</i>	188728		
Buffalo	31735		
Sheep			
<i>Crossbred</i>	43367	324 MT/yr(meat)	
<i>Indigenous</i>			
Goats	104474		
Pigs			
<i>Crossbred</i>	9231		
<i>Indigenous</i>			
Rabbits			
Poultry			
Hens	301564	27 millions eggs/yr	
<i>Desi</i>			
<i>Improved</i>			
Ducks	94200		
Turkey and others			
Fish			
<i>Marine</i>		7363.5 MT	
<i>Inland</i>		5418.5 MT	2.97 MT/ha
Prawn		13.25 MT	
Scampi		23 MT	
Shrimp		1834.63 MT	1.12 MT/ha

RESOURCES & OPPORTUNITIES

S. N	PARTICULARS	KENDRAPARA DISTRICT			
		Costal irrigated alluvial	Rainfed alluvial	Costal alluvial saline	Costal water logged
1	Adequate rainfall	Y	Y	Y	Y
2	Soil is alluvial & sandy loam for pulses & oilseeds	Y	Y	Y	Y
3	Conducive climate for paddy, jute and sunflower	Y	Y	-	Y
4	Conducive climate for coconut, banana, guava etc.	Y	Y	Y	Y
5	Medium land suitable for vegetable & spices	Y	Y	Y	Y
6	Adequate pasture land for dairy	-	Y	Y	-
7	Vast low lying areas and high water table for pisciculture	Y	Y	Y	Y
8	Large scale cultivation of brinjal, tomato & other vegs.	Y	Y	Y	Y
9	Increase in banana & coconut cultivation	Y	Y	Y	Y
10	Farming system dominated by HYV rain fed paddy	Y	Y	Y	Y
11	Dominance of cattle & goatery & poultry in AH farming system	Y	Y	Y	Y
12	Increase in fish & prawn farming	Y	Y	Y	-
	Opportunity				
1	Availability of more water area for agriculture and fishery	Y	Y	Y	Y
2	Integrated watershed development	Y	Y	Y	Y
3	Scope for pasture development	Y	Y	Y	-
4	Scope for medicinal plantation	Y	Y	-	Y
5	Production of scented rice	Y	Y	-	-
6	Production of vegetable seeds	Y	Y	Y	Y
7	Establishment of agriclinic	Y	Y	Y	Y
8	Establishment of hatchery fish feed mill, aqua shops	Y	Y	Y	Y
9	Potential for mushroom cultivation	Y	Y	Y	Y
10	Expansion of area under floriculture	Y	Y	-	Y
11	Expansion of area under hybrid vegetables	Y	Y	Y	-
12	Expansion of area under hybrid paddy.	Y	Y	-	Y
13	Expansion of area under tuber crops, chilli, ginger & turmeric paddy.	Y	Y	Y	Y
14	Expansion of area under betel vine.	Y	Y	-	Y
15	Expansion of area under hybrid sunflower.	Y	Y	Y	Y
16	Expansion of area under jute cultivation.	Y	Y	-	-
17	Artificial insemination of cattle, goat & sheep	Y	Y	Y	Y
18	Expansion of area under banana, coconut, areca nut, lime, pineapple etc	Y	Y	Y	Y

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)
Kendrapara	Narendrapur	2010	Marshaghai	30 km	450	55
Kendrapara	Barimula	2011	Derabis	15 km	420	80
Kendrapara	Sanamangarajpur	2010	Kendrapara	16 km	288	48
Kendrapara	Kantia	2010	Kendrapara	15 km	162	37
Kendrapara	Janra Barimul	2011	Pattamundai	28 km	175	45
Kendrapara	Alailo	2010	Mahakalpada	45 km	350	48

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

KVK Name	THRUST AREA
Kendrapara	Maximization of crop production
Kendrapara	Development of suitable farming system models for different farming situation
Kendrapara	Value addition of fruits and vegetables
Kendrapara	Mushroom production and post harvest management
Kendrapara	Production of remunerative enterprises (Floriculture, apiary, fishery, polutry rearing etc.)
Kendrapara	Judicious pest and disease management practices
Kendrapara	Soil problem and water quality management
Kendrapara	Food security and sustainable livelihood
Kendrapara	Integrated Weed management
Kendrapara	Integrated nutrient management
Kendrapara	Maximization of crop production
Kendrapara	Development of suitable farming system models for different farming situation

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

Kendrapara	More infestation of weeds	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Poor nutrient management practices in the field crops	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Use of traditional varieties	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Acute pest and disease infestation in different crops	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Poor soil and water quality	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Non remunerative enterprise in practice	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Lack in proper utilization of available natural resources	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Non availability feed and fodder for ruminants	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Lack of value addition practices	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Poor production of pisciculture	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Poor food and livelihood security	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Soil acidity leading to lower crop yield.	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Application of imbalanced dose of major nutrients in almost all crops.	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Water logging	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Lack of scientific knowledge on agro based entrepreneurships.	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Unemployment of rural youth and school	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Lack of availability of agricultural labour, and farm machineries for timely farm operations.	PRA tools, Diagnostic field visit, group discussion, exploratory survey
Kendrapara	Malnutrition in farm women & children	PRA tools, Diagnostic field visit, group discussion, exploratory survey

2. On Farm Testing

2.1 Information about OFT

KVK name	Year/season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situation	Title of OFT	No. of trials	Results (with parameter) q/ha		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
Kendrapara	Kharif, 2012-13	Low yield of paddy in medium land situation	Assessment	ICM	Crop	Irrigated	Assessment of HYV paddy Manaswini in medium land situation	10	41.7	51.5	25000	21700	HYV paddy cv-Manaswini performed well with increase in yield by 23.5% and recommended for cultivation in large scale
Kendrapara	Kharif, 2012-13	Low yield and profitability due to high infestation of weeds in rainfed jute	Assessment	Integrated weed management	Crop	Rainfed	Assessment of Integrated weed management in Jute	10	26.5	32.8	14600	21420	Weedicide Fenoxaprop p ethyl @75g a.i/ha at 20 DAE effectively controlled grassy weeds & manual weeding at 35 DAS controlled rest weeds
Kendrapara	Kharif, 2012-13	Low yield & profitability due improper nutrient management & non use of biofertiliser in medium land paddy	Assessment	INM	Crop	Irrigated	Assessment of Azolla in medium land paddy	10	42.2	50.3	15000	23000	Use of biofertilizer Azolla @1 ton/ ha at 5-7 days after transplanting in standing water & incorporation through trampling during weeding with RDF
Kendrapara	Kharif, 2012-13	Low yield and profitability due to flood in medium land situation	Assessment	ICM	Crop	Irrigated	Assessment of paddy cv.- Swarna sub-1 in flood prone area	10	41.7	49.8	14500	23000	Cultivation of Swarna Sub-1 @75kg/ha in middle land condition
Kendrapara	Rabi, 2012-13	Damaged fruit and reduction in yield	Assessment	IPM	Crop	Irrigated	Assessment of IPM for fruit borer in Okra	5	101	116.2	59,000/-	71,200/-	Basal application of neem cake@ 100kg/ha+ spraying of imidacloprid 17.8 SL @ 0.5 ml/lit of water at 15DAG+ HaNPV at 45 DAG @1ml/lit of water

KVK name	Year/season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situation	Title of OFT	No. of trials	Results (with parameter) q/ha		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
Kendrapara	Kharif, 2012-13	Low bio efficiency of paddy straw mushroom	Assessment	Mushroom cultivation	Enterprise	Rainfed	Assessment of calcium carbonate for management of competitor moulds (<i>Coprinus</i> sp.) of paddy straw mushroom	5	0.4kg/bed	1kg/bed	18 per bed	80 per bed	Soaking of straw in 2% calcium carbonate powder before preparation of mushroom bed
Kendrapara	Rabi, 2012-13	Sudden Wilting of plant during flowering and fruiting stage	Assessment	IDM	Crop	Irrigated	Assessment of <i>Pseudomonas fluorescens</i> for management of wilt incidence in tomato	5	302.5	349.8	1,06,250/-	1,24,900	<i>Pseudomonas fluorescens</i> seedling root dip and soil drenching @ 1% solution before planting of tomato seedling in the main field
Kendrapara	Rabi, 2012-13	Complete defoliation of plant and reduction in yield	Assessment	IPM	Crop	Irrigated	Assessment of Thiodicarb for management of black headed caterpillar in greengram	6	5.76	8.08	22,560/-	33,000/-	Foliar spraying of Thiodicarb 1gm/lit of water at 15 DAG twice at 7 days interval
Kendrapara	Rabi, 2012-13	Reduction in yield due to less fruiting	Assessment	INM	Crop	Irrigated	Assessment of Micronutrient in Tomato	10	272	298	68,000/-	83,700/-	All the farmers appreciated the performance of micronutrient application increased growth of plant and initiation of more flowers and fruits. Also the skin of fruit is tight and uniform size
Kendrapara	Rabi, 2012-13	Reduction in yield due to less fruiting	Assessment	INM	Crop	Irrigated	Assessment of Nitrobenzene in Okra	8	138	151	60,100/-	71,300/-	All the farmers appreciated the performance of ethrel application increased flower and fruits. Also the fruit is light green in colour and are solid. Fruit yield is more in staking method

KVK name	Year/season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situation	Title of OFT	No. of trials	Results (with parameter) q/ha		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
Kendrapara	Kharif, 2012-13	Traditional method of propagation through suckers do not give uniform yield, spread disease & creates hindrance for large scale cultivation	Assessment	Commercial cultivation of cash crop	Crop	Irrigated	Assessment of Tissue culture banana cv.Bantala	4	300	400	195000/-	2,80,000/-	TCB, Bantala prove to be more disease resistant with higher yield
Kendrapara	Summer 2012-13	Low yield	Assessment	INM	Crop	Irrigated	Assessment of Tricentanol hormone in Watermelon cv.Sugarbaby	6	continuing				
Kendrapara	Kharif, 2012-13	Low yield of milk due to no use of mineral mixtures in feed	Assessment	Nutritional management	Enterprise	-	Assessment of vitamin mineral mixture in milk production of cow	5	275	500	3400	6500	Supply of vitamin mineral mixture improved the health of the milch cows and increase the milk yield
Kendrapara	Rabi, 2012-13	Less egg production from desi breed	Assessment	Livestock production	Enterprise	-	Assessment of Khaki Campbell duck for better livelihoods	10	85	160	140	390	Egg laying capacity higher than local breed
Kendrapara		Manual striping	Assessment	Drudgery reduction	Enterprise	Rainfed	Assessment of jute striper for drudgery reduction	10	8	25	17000	19500	16 man days saved per ha, drydgery reduce and time save
Kendrapara	Kharif, 2012-13	Less income from monoculture	Assessment	Integrated farming system	crop	Irrigated	Assessment of fish -cum-duck culture	8	Fish-15	Fish-20 Duck meat-4 Egg-10000nos	70,000	1,60,000	Performance of integrated farming should be propagated for better economic growth
Kendrapara	Kharif, 2012-13	Non availability of quality seed in rural area	Assesment	Quality seed production	Crop	Irrigated	.Assessment of seed production of common carp in	10	-	10 no. of breeding set taken out of	-	1,20,000	Fertilization % of common carp egg and recovery of spawn due to use of synthetic hormone like

KVK name	Year/season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situation	Title of OFT	No. of trials	Results (with parameter) q/ha		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
							breeding happa			which 10 lakh egg collected			Ova prim, Ova tied, Ova FH and recovery of fry due to well maintenance nursery pond
Kendrapara	Khaif, 2012-13	Less income from fish culture	Assessmet	Production technology	crop	Irrigated	Assessment of prawn culture with fish farming	10	Fish-15	Fish-18 Prawn-5	70,000	1,17,000	Mix culture practice enhance economic growth of beneficiaries
Kendrapara	Kharif, 2012-13	Higher percentage of mortality due to EUS	Assessment	Production technology	crop	Irrigated	Assessment of Epizootic Ulcerative disease syndrome (EUS) in carps	8	15.00	20.00	70,000	1,10,000	Application of CIFAX is more viable in farmers field to protect EUS disease which gives better income to the farmer

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 (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP(T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)
Kendrapara	Assessment of HYV paddy Manaswini in medium land situation	EBT/m ²	265	201	30000	30000		41700	55000		21700	25000		1.52	1.83	
Kendrapara	Assessment of Integrated weed management in Jute	WCE- %,	85.5	-	24500	22500		37100	45920		14600	21420		1.64	1.87	
Kendrapara	Assessment of Azolla in medium land paddy	EBT/m ²	264	222	30000	31000		45000	54000		15000	23000		1.5	1.74	
Kendrapara	Assessment of paddy cv.- Swarna sub-1 in flood prone area	EBT/m ²	269	227	30000	30000		44500	53000		14500	23000		1.48	1.76	
Kendrapara	Assessment of IPM for fruit borer in Okra	Fruit damage %-	5	20	42,000	45,000		1,01,000	1,16,000		59,000	71,200		2.40	2.57	
Kendrapara	Assessment of calcium carbonate for management of competitor moulds (Coprinus sp.) of paddy straw mushroom	Days taken for emergence of pin heads-Nos. No. of fruiting bodies- Nos. Weight of fruiting bodies- in gm	9 50 20	10 27 15	Rs..30 /bed	Rs.40/b ed		48	120		18/bed	80/bed		1.6	3.0	
Kendrapara	Assessment of <i>Pseudomonas fluorescens</i> for management of wilt incidence in tomato	% of wilt incidence- No.	3	15	45,000	50,000		1,51,250	1,74,900		1,06,250	1,24,900		2.36	2.49	
Kendrapara	Assessment of Thiodicarb for management of black headed caterpillar in greengram	% of infested plant-	3	15	12000	15000		34560	48000		22,560	33,000		1.88	2.20	
Kendrapara	Assessment of Micronutrient in Tomato	Weight of tamato - gm	42.6	35.8	40,100	43,900		1,08,100	1,27,600		68,000	83,700		2.7	2.9	

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 (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP(T ₂)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂)	Refined Practice, if any (T ₃)
Kendrapara	Assessment of Nitrobenzene in Okra	Fruit length-cm	8.3	7.2	43,900	45,000		1,04,000	1,16,300		60,100	71,300		2.3	2.5	
Kendrapara	Assessment of Tissue culture banana cv.Bantala	Fruit length-cm Weight- gm	8.89 98	7.14 60	1,08,000	1,30,000		3,03,000	4,10,000		1,95,000	2,80,000		2.8	3.2	
Kendrapara	Assessment of Tricontanol hormone in Watermelon cv.Sugarbaby	Continuing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kendrapara	Assessment of vitamin mineral mixture in milk production of cow	lit/day Liter	13	9	2100	3500		5500	10,000		3400	6500		2.61	2.85	
Kendrapara	Assessment of Khaki Campbell duck for better livelihoods	Weight og egg	50	45	200	250		340	640		140	390		1.70	2.56	
Kendrapara	Assessment of jute striper for drudgery reduction	Man days-	30	46	25000	22500		42000	42000		17000	19500		1.68	1.86	
Kendrapara	Assessment of fish -cum- duck culture	.Size of fish- cm ii. Weight of fish- gm	11.2 cm 400gm	7.3 cm 210gm	80,000	1,10,000		1,50,000	2,70,000		70,000	1,60,000		1.87	2.45	
Kendrapara	.Assessment of seed production of common carp in breeding happa	Fertilized egg-% Recovery of spawn-% Survavibility of fry-%	90 80 40	-		3,55,000			75,000			40,000			2.11	
Kendrapara	Assessment of prawn culture with fish farming	Weight of fish- gm Weight of prawn- gm	850 200	600	80,000	1,20,000		1,50,000	2,70,000		70,000	1,70,000		1.87	2.54	
Kendrapara	Assessment of Epizootic Ulcerative disease syndrome (EUS) in carps	% of Fish infected with EUS-	2	20	80,000	1,10,000		1,50,000	2,70,000		70,000	1,10,000		1.87	2.22	

2.3 Feedback from KVK to Research System

Name of KVK	Feedback
Kendrapara	Research should be made for INM and SRI for this HYV paddy
Kendrapara	Further study is required on hormone application
Kendrapara	Further study is required on application micro nutrient
Kendrapara	Feedback- Nutritional management may be tested
Kendrapara	Further studies is required whether the yield of paddy straw mushroom will be increased if the concentration of Calcium carbonate is increased i.e, above 2%
Kendrapara	Pseudomonas fluorescence working well in management of wilt in Rabi season further studies required whether this micro organism will work in tomato crop cultivated in summer season
Kendrapara	Further studies required whether biofesticide are compactable with Thiodicarb or not
Kendrapara	More studies is required to know the efficacy of new based pesticides for management of fruit borer in okra
Kendrapara	Further study is required at farmer field to refine the technology

3. Achievements of Frontline Demonstrations

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

List of technologies demonstrated and popularized during previous years and recommended for large scale adoption in the district

KVK Name	Crop/ Enterprise	Thematic Area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
Kendrapara	Crop	Weed management	Use of pre emergence hecicide pretilachlor @ 1.5 Litres/ha at 3 DAT	Training, demonstration, group meeting, field visit etc.	7	130	91
Kendrapara	Crop	INM	Twice spraying of Borax @2.5gm/lit after 25 days of planting in 10 days interval	Training and demonstration	6	112	84
Kendrapara	Crop	INM	Application of liquid bio-fertilizer like Azotobactor, Azospirillum & PSB 100ml each incubated with vermicompost (25kg)	Training and demonstration	3	32	42
Kendrapara	Crop	INM	Application of Gypsum @200kg and Borax@10kg/ha along with STBFR	Field day, training and TV coverage etc.	4	105	56
Kendrapara	Crop	IPM	Installation of Pheromonetrap@ 20nos/ha along with scripulture, release of <i>Trichogramma japonicum</i> Parastitoid@ 50,000/ha one month after transplanting 5 times at weekly interval, need based spraying of crop with Cartap hydrochloride@ 1gm/lit of water	Training, group meeting, demonstration	6	135	42
Kendrapara	Crop	IPM	Installation of pheromone traps (25 nos/ha) along with leucin lures, release of <i>Trichogamma chilonis</i> 50,000/ha as non chemical curative control measures. Need based application of cartap hydrochloride 1.5g/lit of water+ Diflubenzuron 0.5gm/lit of water	Training, group meeting, demonstration	12	182	65
Kendrapara	Crop	IDM	Seed treatment with Carboxin 37.5%+ thiram37.5%@ 0.2% &Streptocycline @ 0.01% for 15 mins followed by shade drying and spraying with Metalxyl8%+ Mancozeb64%@ 0.2 % twice at 10 days interval at 45 DAS	Training, meeting, demonstration	15	202	58

Kendrapara	Crop	IDM	Foliar spraying the crop at tillering, boot leaf and grain formation stage with Isoprothilane 40% EC @1.5/lit of water along with sticker	Training, demonstration, group discussion, field visit	10	150	200
Kendrapara	Crop	Varietal evaluation	Introduction of improved varieties of tomato cv. Utkal Raja, a wilt tolerant variety with average yield potential of 37.5 t/ha	Training, FLD	20	240	150
Kendrapara	Crop	INM	Application of 10-15 kg of FYM or compost per pit along with 375gm N, 100gm P and 300gm K per plant as per STBFR. Nis applied in 3 split doses at 2,4 & 6 months of planting	Training, FLD	45	400	120
Kendrapara	Crop	Integrated farming system	Indian Major Carps with horticultural crops (banana, lemon graft, mango poultry and duckery)	Training, FLD	55	350	160
Kendrapara	Crop	Production technology	Fish fry i.e. Catla, rahu and mirgal in small pond	Training, FLD	30	250	60
Kendrapara	Crop	Production technology	Stocking in captive nursery (Stoking in 20 decimal area for one acre pond)	Training and demonstration	10	38	10
Kendrapara	Crop	Evaluation of breed	Demonstraion of coloured bird like RIR and Black rock under semi intensive condition	Training and demonstration	15	65	25
Kendrapara	Enterprise	Mushroom cultivation	Sterilization of straw, using of good quality spawn and hygienic method of bed preparation	Training and demonstration	15	425	22
Kendrapara	Enterprise	Drudgery reduction	Reduced drudgery by using groundnut decorticator	Training and demonstration	4	120	-
Kendrapara	vegetable	Resource conservation technology	Introduction of improved seeds, use of vermicompost & application of neem based pesticides	Training and demonstration	10	200	-
Kendrapara	Crop	Integrated farming system	Horti-silvi-pastural system for income generation and sustainable livelihood	Demonstration	3	30	-
Kendrapara	Hybrid napier grass	Fodder production	Line showing of Napier grass on upland for big ruminants	Training, field visit & demonstration	1	1	.4

3.2 Details of FLDs implemented

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
Kendrapara	INM	Rice	Kharif, 2012-13	Sowing of dhaincha seed @25Kg/ha and incorporating tender plants at six week stage through ploughing and puddling	5	Swarna	50.8	42.3	20.09	2	-	-	8	10
Kendrapara	ICM	Paddy	Kharif, 2012-13	Long slender grain, Medium duration (130 days) yield potential- 7 t/ha	3	JKRH-401	67.5	47.2	43.04	1	-	2	7	10
Kendrapara	Integrated weed management	paddy	Rabi, 2012-13	Application of pre emergence chemical herbicide Oxadiargyl 80%WP @75gm/ha 3 DAT (days after transplanting)	2	Pratikshya	51.7	41.8		-	1	-	9	10
Kendrapara	INM	Rice	Rabi, 2012-13	Application of Gypsum @200kg and Borax@10kg/ha along with STBFR	2	Lalat	51.9	43.5		-	-	-	10	10

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
Kendrapara	IPM	paddy	Kharif, 2012-13	Installation of pheromonetraps @20nos/ha along with scripulture, release of Trichogramma Japonicum parastitoid @50,000/ha one month after transplanting 5 times at weekly interval, need based spraying of crop with Cartap hydrochloride @1gm/lit of water	2	Swarna	45.2	35.0	29.14	-	1	-	4	5
Kendrapara	IDM	paddy	Kharif, 2012-13	Drenching the basal part of the plant with Validamycin 2.5ml + Imidacloprid 0.2ml in 1 lit of water	2	swarna	43	35	22.85	-	-	-	5	5

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
Kendrapara	IDM	potato	Rabi, 2012-13	Seed treatment with Carboxin 37.5% +thiram37.5% @0.2% & Streptocycline @0.01% for 15 mins followed by shade drying and spraying with Metalxy 18%+ Mancozeb 64% @0.2% twice at 10 days interval at 45 DAS	1	Kufri chandramukhi	261	220	18.63	1	-	1	3	5
Kendrapara	IDM	paddy	Summer, 2012-13	Foliar spraying the crop at tillering, boot leaf and grain formation stage with Isoprothilane 40% EC @1.5/lit of water along with sticker	1	Lalat	49.80	40.00	24.50	2	-	-	3	5
Kendrapara	Varietal evaluation	Tomato	Rabi, 2012-13	Introduction of improved varieties of tomato cv. Utkal Raja, a wilt tolerant variety with average yield potential of 37.5 t/ha	0.6	cv. Utkal Raja	260	205	26.82	1	1	-	3	5

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
Kendrapara	INM	Banana	Kharif, 2012-13	Application of 10-15 kg of FYM or compost per pit along with 375gm N, 100gm P and 300gm K per plant as per STBFR. Nis applied in 3 split doses at 2,4 & 6 months of planting	0.6	Banatala	420	300	40	-	-	-	4	4
Kendrapara	ICM	Bittergourd	Summer, 2012-13	Application of 3ml /15 litter water of ethrel twice, first at 2 leaf stage and second at 4 leaf stage	0.6	Long green	73.4	60.3	21.7	1	-	2	5	8
Kendrapara	Crop management practice	pointedgourd	Rabi, 2012-13	Trellia system in Pointed gourd	0.2	Swarna Alukik	240	142	69	1	1	1	2	5
Kendrapara	Evaluation of breed	enterprise	Kharif, 2012-13	Demonstration of Banaraja under semi intensive condition	-	Banaraja	2kg	1kg	50	4	2	-	19	25
Kendrapara	Mushroom cultivation	enterprise	Rabi, 2012-13	Sterilization of straw, using of good quality spawn and hygienic method of bed preparation	-	<i>Pleurotus Sajorcaju</i>	2.5kg	1.5kg	69	3	-	2	15	20

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
Kendrapara	Drudgery reduction	enterprise	Rabi, 2012-13	Use of power operated paddy thresher to save time, cost and labour	-	-	Labour requirement- 0.36 MD/q Cost saving- Rs.60/q	Labour requirement- 0.9 MD/q Cost saving- Rs.120/q	86	2	-	-	8	10
Kendrapara	Resource conservation technology	vegetable	Rabi, 2012-13	Introduction of improved seeds for nutritional garden	0.2	(Tomato , brinjal, okra, chilli, greens, bottle gourd, cowpea)	181	145	24.8	2	-	-	8	10
Kendrapara	Integrated farming system	fish	Kharif, 2012-13	Indian Major Carps with horticultural crops (banana, lemmon graft, mango poultry and duckery)	1	Indian major carp, poultry bird, forest plant, horticultural crop	Fish- 18 Horticultural crop-350 Bird meat-10	Fish-15	20.00	1	2	-	5	8
Kendrapara	Production technology	fish	Kharif, 2012-13	Fish fry i.e. Catla, rahu and mirgal in small pond	1	Catla, rahu and mirgal	75 lakh	75 lakh	15 lakh 25 lakh	2	-	-	4	6
Kendrapara	Production technology	fish	Kharif, 2012-13	Stocking in captive nursery (Stoking in 20 decimal area for one acre pond)	1	Indian Major carp	22	15	46.66	-	-	-	8	8
	Bio-logical control	fish	Kharif, 2012-13	Cultivation of grass carp in farmer pond to control weed	1	Grass carp	23	14	64.28	-	-	2	6	8

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
Kendrapara	dhanicha	Sowing of dhaincha seed @25Kg/ha and incorporating tender plants at six week stage through ploughing and puddling	EBT/Sq.m	265	212	31000	30000	55000	45500	24000	15500	1.77	1.51
Kendrapara	paddy	Long slender grain, Medium duration (130 days) yield potential- 7 t/ha	EBT/Sq.m	332	229	32000	32000	70000	51000	38000	19000	2.19	1.59
Kendrapara	paddy	Application of pre emergence chemical herbicide Oxadiargyl 80%WP @75gm/ha 3 DAT (days after transplanting)	EBT/Sq.m Test weight	297 22.9	212 22.5	30000	31000	55000	44000	25000	13000	1.83	1.42
Kendrapara	paddy	Application of Gypsum @200kg and Borax@10kg/ha as basal along with RDF(80-40-40 NPK Kg/ha)	EBT/Sq.m Test weight	289 23.1	217 22.4	32000	30000	58000	47000	26000	17000	1.81	1.56
Kendrapara	Paddy	Installation of pheromonetraps @20nos/ha along with scripolure, release of Trichogramma Japonicum parasitoid @50,000/ha one month after transplanting 5 times at weekly interval, need based spraying of crop with Cartap hydrochloride @1 gm/lit of water	% incidence Dead heart - White ear head-	6 5	14 18	22000	19000	54240	42000	26240	23000	1.46	1.21

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
Kendrapara	paddy	Drenching the basal part of the plant with Validamycin 2.5ml + Imidacloprid 0.2ml in 1 lit of water at tillering stage	% hills infected-	09	32	21000	19000	51600	42000	29600	23,000	1.45	1.21
Kendrapara	potato	Seed treatment with Carboxin 37.5% +thiram37.5% @0.2% & Streptocycline @0.01% for 15 mins followed by shade drying and spraying with Metalxy 18%+ Mancozeb 64% @0.2% twice at 10 days interval at 45 DAS	blighted leaves%- Rotted tuber %-	53	1512	55000	52000	156,600	1,32,000	101600	800000	2.84	2.53
Kendrapara	paddy	Foliar spraying the crop at tillering, boot leaf and grain formation stage with Isoprothilane 40% EC @1.5/lit of water along with sticker	% of infected leaves-	6	20	30,000	28000	59760	48000	29700	20,000	1.99	1.71
Kendrapara	Tomato	Introduction of improved varieties of tomato cv. Utkal Raja, a wilt tolerant variety with average yield potential of 37.5 t/ha	Weight of tamato-	40.6	25.8	44,300	41,800	1,29,300	1,01,800	85,000	60,000	2.9	2.4
Kendrapara	Banana	Application of 10-15 kg of FYM or compost per pit along with 375gm N, 100gm P and 300gm K per plant as per STBFR. Nis applied in 3 split doses at 2,4 & 6 months of planting	Weight of the finger	254	167	1,20,000	1,05,000	4,20,000	3,00,000	3,00,000	1,95,000	3.5	2.8

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
Kendrapara	Bittergourd	Application of 3ml /15 litter water of ethrel twice, first at 2 leaf stage and second at 4 leaf stage	Fruit length-cm	9.69	7.14	29,800	34,400	73,400	60,300	43,600	25,900	2.4	1.75
Kendrapara	pointedgourd	Trellia system in Pointed gourd	Single fruit weight - gm Fruits per 10 nodes-	23 14	16.2 5	1,19,100	1,02,000	2,79,100	2,26,000	160,000	1,24,000	2.3	2.2
Kendrapara	Enterprise	Use of power operated paddy thresher to save time, cost and labour	Pulse rate	140-146 bits / min	100-105 bits/min	28000	30000	45000	45000	17000	15000	1.6	1.5
Kendrapara	Vegetable	Introduction of improved seeds for nutritional garden	% adoption	24.8	-	-	-	-	-	3300/0.02	1800/0.02	1:3.2	1:2.5
Kendrapara	enterprise	Cultivation of oyster mushroom P. Sajorcaju	Yield/bed	1.5 kg/bed	1 kg/bed	1500	1100	6000	3500	4500	2400	2	1.2
Kendrapara	Poultry	Demonstraion of coloured bird like RIR and Banaraja under semi intensive condition	Meat yield/bird	2	1.5	4800	2500	9600	3000	4800	500	2	1.2
Kendrapara	Pisciculture	Indian Major Carps with horticultural crops (banana, lemmon graft, mango poultry and duckery)	Size of fish-	850	600	2,80,000	80,000	4,90,000	1,50,000	2,40,000	70,000	2.04	1.87
Kendrapara	pisciculture	Fish fry i.e. Catla, rahu and mirgal in small pond	Survability%-	33	20	154,000/-	1,05,000/-	379500/-	2,30,000/-	2,25,000/-	1,25,000/-	2.46	2.19
Kendrapara	pisciculture	Stocking in captive nursery (Stoking in 20 decimal area for one acre pond	Weight of fish-	700	450	1,20,000	80,000	2,70,000	1,50,000	1,20,000	70,000	2.2	1.87

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
Kendrapara	pisciculture	Cultivation of grass carp in farmer pond to control weed	Weight of fish-gm	850	550	1,53,000	140,000	3,20,000	2,45,000	1,20,000	60,000	2.09	1.75

3.4 Feedback of the Farmers

Name of KVK	Feedback
Kendrapara	It is difficult to keep the bioagent Trichogramma japonicum in suitable environment as it requires low temperature for its survival
Kendrapara	Hence these combination can be recommended to the rice farmers. Farmers are happy with the performance of the technology
Kendrapara	Farmers satisfy with performance of the TCBtechnology
Kendrapara	Farmers were very much happy with the performance of Isoprothilane
Kendrapara	If they will followed the above practice they will get more benefit than farmer practice
Kendrapara	Farm women were interested to keep colour bird because it is more profitable
Kendrapara	Mushroom cultivation is a profitable business for farm women specially landless farmer women
Kendrapara	Farmers preferred improved decorticator over manual method of decortication
Kendrapara	Its supplements family nutrition by insuring fresh vegetable around the year
Kendrapara	Farmers satisfy with performance of the technology

3.5 Training and Extension activities under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants
Kendrapara	Paddy	Field days	7	350
	Brinjal, chilli, potato, Cauliflower	Farmers Training	18	450
		Media coverage	14	750
		Training for extension functionaries	3	30
Kendrapara	Bird, Mushroom	Field days	2	100
		Farmers Training	5	125
		Media coverage	2	840
		Training for extension functionaries	2	20
Kendrapara	Tomato, pointed gourd, marigold, cowpea	Field days	4	200
		Farmers Training	3	75
		Media coverage	2	1200
		Training for extension functionaries	4	40

4. Documentation of the need assessment conducted by the KVK for the training programme

Name of KVK	Category of the training	Methods of need assessment	Date and place	No. Of participants involved
Kendrapara	Farmers & farm women	Field visit, discussion and group meeting- Seeing the performance & interest of farmers for Integrated Nutrient Management in Jute	21.04.12, Janra, Barimul	25
Kendrapara	Farmers & farm women	Group contact & field visit, meeting – Using PRA tools and techniques it was found that farmers Integrated Weed management in jute	10.05.12, Nilakanthapur	25
Kendrapara	Farmers & farm women	Group contact & field visit- Using PRA tools and techniques it was found that farmers are use Liming of Acid soil for higher productivity	11.05.12, Kanpura	25
Kendrapara	Farmers & farm women	Group contact & field visit meeting – Using PRA tools and techniques it was found that farmers Integrated weed management in paddy	11.06.12, Gahaga	25
Kendrapara	Farmers & farm women	Group contact & field visit meeting – Using PRA tools and techniques it was found that farmers Use of bio-fertilizer in paddy	28.08.12, Choti	25
Kendrapara	Farmers & farm women	Group discussion and mass contact- Seeing the interest of farmers Integrated Farming system for livelihood security	11.10.12, KVK, Campus	25
Kendrapara	Farmers & farm women	Group discussion and mass contact- Seeing the interest of farmers Inter cropping for higher sustainability and yield	17.09.12, 18.09.12, KVK, Campus	25
Kendrapara	Farmers & farm women	Group discussion and mass contact- Using PRA tools and techniques it was found that farmers Use of Biofertiliser in Pulses (greengram,blackgram)	8.10.12, Raipur	25
Kendrapara	Farmers & farm women	Group discussion and mass contact- Seeing the interest of farmers Gypsum application in oilseed crops (ground nut, mustard)	19.11.12, chichniri	25
Kendrapara	Farmers & farm women	Group discussion and mass contact- Seeing the interest of farmers SRI method of rice cultivation to mitigate climate change	17.12.2012, Kanpura	25
Kendrapara	FW	Group discussion and mass contact- Seeing the interest of farmers need for training on Integrated weed management in groundnut	17.01.2013, Balipatna	25
Kendrapara	Farmers & farm women	Group discussion and mass contact- Seeing the interest of farmers Integrated nutrient management in hybrid rice	26.02.13, Tentol	25
Kendrapara	Farmers & farm women	Group discussion- Due to low yield of paddy straw mushroom in summer season, farmers demand for training on care and management of paddy straw mushroom	26.05.2012, Baro	25

Kendrapara	Farmers & farm women	Group discussion, Farmers meeting, field visit. Due to indiscriminate use of pesticide there is need of training on safe and judicious use of pesticide.	26.06.12, Kantia	25
Kendrapara	Farmers & farm women	Diagnostic field visit, PRA survey due to seed borne diseases of paddy there is low yield of paddy so farmers demand training on seed borne disease of paddy and their management.	28.06.12, Sanamangarajpur	25
Kendrapara	Farmers & farm women	Group discussion, Farmers meeting, field visit. Due to heavy infestation of pest in paddy, there is need of training on IPM of paddy.	29.06.2012, Chhoti	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, farmers demand for training on pest and disease management in paddy	3.07.2012, Managarajpur	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, farmers demand for training on disease management in jute	10.07.12, Kathiagara	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, farmers demand for training on pest and disease management in banana	5.10.12, Raipur	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, Need for training on pests of brinjal and their management	8.10.12, Tanar	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, Need for training on disease and pest management on coconut.	11.10.12, Kantia	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, Need for training on disease management of cole crops.	18.10.12, Sanamangarajpur	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, Need for training on IDM in sunflower	27.12.2012, Balipatna	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, Need for training on IPM in potato	24.12.2012, Itakandia	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, Need for training on IDM in potato	26.12.2012 Nilakanthapur	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, Need for training on IPM in chilli	4.01.2013, Ghigidia	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, Need for training on pest of greengram and its management	15.01.2013, Ghigidia	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, Need for training on Management of disease of groundnut	21.01.2013, Endar	25
Kendrapara	Farmers & farm women	Diagnostic field visit, group discussion, Need for training on management of disease of groundnut through biological method	29.01.2013, chhatar	25

Kendrapara	Farmers & farmwomen	Diagnostic field visit & Exploratory survey- seeing the poor performance of banana plantations due to use of poor planting materials and no sucker treatment before planting, the training need is assessed.	10.04.2012, Nilakanthapur	25
Kendrapara	Farmers & farmwomen	Using the PRA tools it is found that there is lack of technical knowledge for producing good quality seedlings for cultivation of Kharif tomato.	30.5.12, Bibhutipara	25
Kendrapara	Farmers & farmwomen	Using the PRA tools it is found that there is almost no application of fertilizers to young fruit orchards of banana, papaya and coconut. Seeing this training need is assessed.	26.06.12, Gahaga	25
Kendrapara	Farmers & farmwomen	Diagnostic field visit- Seeing the poor plant stand and irregular layout on the pond embankment training need is assessed.	05.07.12, Ayva	25
Kendrapara	Farmers & farmwomen	Using the PRA tools it is found that there is demand for planting materials of ornamental plants but it has a short supply.	07.08.12, Nilakanthapur	25
Kendrapara	Farmers & farmwomen	Diagnostic field visit-Imbalance and excess application of nitrogenous fertilizers in off season/ early cole crops (Cauliflower).	13.08.12, Kathiagara	25
Kendrapara	Farmers & farm women	Diagnostic field visit- Imbalance and no application of organic and inorganic fertilizers in banana orchard results in low yield.	14.09.12, Endar	25
Kendrapara	Farmers & farm women	Using the PRA tools it is found that there is demand for Integrated nutrient management in brinjal	21.09.12, Sanamangarajpur	25
Kendrapara	Farmers & farm women	Diagnostic field visit- Using the PRA tools it is found that there is demand Fertilizer management in chilli	16.10.12, Lakshminarayanpur	25
Kendrapara	Farmers & farm women	Diagnostic field visit- weed management in Rabi onion which reduces the onion yield	15.12.12, Itakandia	25
Kendrapara	Farmers & farm women	Poor awareness and knowledge on locally available medicinal and aromatic plants in the vaccinating	20.12.12, Panchupandab	25
Kendrapara	Farmers & farm women	Diagnostic field visit- Post harvest management of potato	15.03.13, Ghigidia	25
Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for training on Preparation of fish pond	30.04.2012, Kanpura	25
Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for training on Seed production in portable FRP carp hatchery	27.06.2012, 28.06.2012, KVK, Campus	25
Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for training on Nursery pond management	29.05.2012, 30.05.2012, KVK, Campus	25

Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for training on Fry fingerling rearing	11.10.12, 12.10.12, KVK, Campus	25
Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for training on Composite fish culture	30.07.2012, Ayba	25
Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for training on Integrated farming system	29.11.2012, 30.11.2012, KVK, Campus	25
Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for training on fresh water prawn culture	17.08.2012, 18.08.2012, KVK, Campus	25
Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for training on Ornamental gold fish production	16.01.2013, 17.01.2013, KVK, Campus	25
Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for fish disease and its control	16.10.2012, Koro, Tanar	25
Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for training on Feed management in aquaculture	07.01.2013, Osangara	25
Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for training on Ornamental gold fish production	25.02.2013, Kantia	25
Kendrapara	Farmers & farm women	Group discussion with the line departments diagnostic field visit need for training on Aquatic weed control in fishery	20.03.2013, Tikhirai	25
Kendrapara	Farm women	Group discussion, Training- Farm women were interested to prepare different value added product from milk	4.05.12, 05.05.2012, KVK, Campus	25
Kendrapara	Farm women	Group discussion with the line departments diagnostic field visit need for training on Income generation activities involved in paddy straw mushroom cultivation	11.06.12, 12.06.12, KVK, Campus	25
Kendrapara	Farm women	Group discussion, Training- Farm women were interested to prepare different value added product from mushroom	02.07.12, 03.07.2012, KVK, Campus	25
Kendrapara	Farm women	Group discussion- Farm women were interested Vermiculture and composting activity taken up by women in SHG	6.08.2012, chhatar	25
Kendrapara	Farm women	Group discussion- Farm women were interested to training on oyster mushroom cultivation	18.12.12, 19.12.12, KVK, Campus	25
Kendrapara	Farm women	PRA survey and group discussion- Farm women were interested to Preparation of different type of pickle from mushroom, drying of mushroom	8.01.13, 9.01.13, KVK, Campus	25
Kendrapara	Farm women	Group discussion- farm women were interested to prepare value added product from tomato	01.02.13, 02.02.13, KVK, Campus	25
Kendrapara	Farm women	Group discussion- Farm women were interested to training on Scientific storage of food grain	12.10.12, Pattamundai	25

Kendrapara	Farm women	Group discussion- Farm women were interested to training on Backyard rearing of duckery for income generation	23.10.12, Sanamangarajpur	25
Kendrapara	Farm women	Group discussion- Farm women were interested to training on drugery reduction implements for farm women	, Nuapara	25
Kendrapara	Farm women	Group discussion- farm women were interested to Planning, layout and maintenances of nutritional garden	14.11.12, 15.11.12, Kautagadia	25
Kendrapara	Farm women	Group discussion- Farm women were interested training on Management of poultry bird during summer	12.03.2013, Mahakalpara	25
Kendrapara	RY	Group discussion- Rural youth came forward to Vermicompost production for self employment	26.11.12, to 28.11.12, KVK, Campus	15
Kendrapara	RY	Group discussion- Rural youth came forward to Certified Seed production for self employment	7.01.13 to 9.01.13	15
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Self employment through Paddy straw mushroom cultivation	5.07.12 to 6.07.12, KVK, Campus	20
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Self employment through oyster mushroom cultivation	21.12.2012, KVK, Campus	20
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Seed production and seed extraction techniques in self pollinated vegetable crops	29.12.12 to 30.12.12, KVK, Campus	15
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Fish seed production in FRP hatchery	10.07.2012, 11.07.2012, KVK, Campus	15
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Ornamental gold fish production	23.02.2013, Balipatana	10
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Pond base farming system	25.10.2012, 26.10.2012, KVK, Campus	10
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training Care and management of backyard poultry	22.08.2012, 23.08.2012 KVK, Campus	15
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Capacity building of farm women in flower production	14.01.2013, 15.01.2013, KVK, Campus	15
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Fodder cultivation for big and small ruminants	30.04.2012, Krushnadaspur	25
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on In-situ moisture conservation technologies for better land and water management	16.05.2012, Kantia	25
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Integrated farming system for sustainable livelihoods	17.10.2012 and 18.10.2012, KVK, Kendrapara	25

Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Management of Available Natural Resources	13.12.2012, 14.12.2012, KVK, Kendrapara	25
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Agro-forestry model and its importance on livelihood	27.12.2012, 28.12.2012, KVK, Kendrapara	25
Kendrapara	RY	Diagnostic field visit, group discussion, Need for training on Farm Problem Analysis and its utilization in farm management	19.02.2013, 20.02.2013, KVK, Kendrapara	25
Kendrapara	IS	Diagnostic field visit, group discussion, Need for training on Organic farming for sustainable Agriculture	12.03.13, KVK, Campus	15
Kendrapara	IS	Diagnostic field visit, group discussion, Need for training on Botanicals and bio-agent used for control of pests of paddy	6.02.2013, KVK, Campus	10
Kendrapara	IS	Diagnostic field visit, group discussion, Need for training on Protected cultivation technology	13.03.13, KVK, Campus	10
Kendrapara	IS	Diagnostic field visit, group discussion, Need for training on Cage and pen culture in reservoirs	8.10.12, 9.10.12, KVK, Campus	10
Kendrapara	IS	Diagnostic field visit, group discussion, Need for training on Ornamental fish production for entrepreneurship development	18.08.12, KVK, Campus	15
Kendrapara	IS	Diagnostic field visit, group discussion, Need for training on Preservation and processing of fruits and vegetables	26.12.12, 27.12.12, KVK, Campus	10
Kendrapara	IS	Diagnostic field visit, group discussion, Need for training on Cultivation of different fodder crops	21.01.13, 22.01.13, KVK, Campus	10
Kendrapara	IS	Diagnostic field visit, group discussion, Need for training on SHG, FIG, CIG and WIG formation and management	23.08.2012, KVK, Kendrapara	25
Kendrapara	IS	Diagnostic field visit, group discussion, Need for training on Formation of farmers club and federation	11.10.2012, KVK, Kendrapara	25
Kendrapara	IS	Diagnostic field visit, group discussion, Need for training on Knowledge sharing and technology blending	30.10.2012, 31.10.2012, KVK, Kendrapara	25
Kendrapara	IS	Diagnostic field visit, group discussion, Need for training on Gender mainstreaming through SHGs	26.02.2013, 27.02.2013, KVK, Kendrapara	25

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

5. TRAINING PROGRAMMES

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

Table 5.1. Details of Training programmes conducted by the KVKs

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							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		
Kendrapara	FW	ONC	CRP	Integrated Farming system for livelihood security	1	01	20	-	-	-	2	-	3	
Kendrapara	FW	ONC	CRP	Inter cropping for higher yield and sustainability	1	01	25	-	-	-	-	-	-	-
Kendrapara	FW	ONC	HOO	Propagation technique of ornamental plants	1	01	23	-	2	-	-	-	-	-
Kendrapara	FW	ONC	FIS	Nursery pond management	1	02	21	1	-	1	-	-	2	-
Kendrapara	FW	ONC	FIS	Seed production in portable FRP carp hatchery	1	02	20	-	2	-	-	-	-	3
Kendrapara	FW	ONC	FIS	Fresh water prawn culture	1	02	23	-	-	1	1	-	-	-
Kendrapara	FW	ONC	FIS	Fry fingerling rearing	1	02	19	1	-	1	2	-	-	1
Kendrapara	FW	ONC	FIS	Integrated farming system	1	02	25	-	-	-	-	-	-	-
Kendrapara	FW	ONC	FIS	Ornamental gold fish production	1	02	25	-	-	-	-	-	-	-
Kendrapara	FW	ONC	WOE	Value addition of milk	1	02	-	20	-	2	-	3	-	-
Kendrapara	FW	ONC	WOE	Income generation activities involved in paddy straw mushroom cultivation	1	02	-	25	-	-	-	-	-	-
Kendrapara	FW	ONC	WOE	Value added product from paddy straw mushroom	1	02	-	19	-	2	-	2	-	2
Kendrapara	FW	ONC	WOE	Vermiculture and composting activity taken up by women in SHG	1	01	-	21	-	2	-	1	-	1

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		
Kendrapara	FW	ONC	WOE	Oyster mushroom cultivation	1	02	-	23	-	2	-	-	-	-
Kendrapara	FW	ONC	WOE	Preparation of different type of pickle from mushroom, drying of mushroom	1	02	-	25	-	-	-	-	-	-
Kendrapara	FW	ONC	WOE	Value added product from tomato	1	02	-	25	-	-	-	-	-	-
Kendrapara	FW	OFC	CRP	Integrated Nutrient Management in Jute	1	01	25	-	-	-	-	-	-	-
Kendrapara	FW	OFC	CRP	Integrated Weed management in jute	1	01	24	-	1	-	-	-	-	-
Kendrapara	FW	OFC	CRP	Liming of Acid soil for higher productivity	1	01	20	-	4	-	1	-	-	-
Kendrapara	FW	OFC	CRP	Integrated weed management in paddy	1	01	23	-	-	2	-	-	-	-
Kendrapara	FW	OFC	CRP	Use of bio-fertilizer in paddy	1	01	22	-	2	-	-	-	1	-
Kendrapara	FW	OFC	CRP	Use of Biofertiliser in Pulses (greengram,blackgram)	1	01	21	-	2	-	2	-	-	-
Kendrapara	FW	OFC	CRP	Gypsum application in oilseed crops (ground nut, mustard)	1	01	18	1	2	-	2	-	1	-
Kendrapara	FW	OFC	CRP	SRI method of rice cultivation to mitigate climate change	1	01	19	2	-	2	-	-	2	-
Kendrapara	FW	OFC	CRP	Integrated weed management in groundnut	1	01	25	-	-	-	-	-	-	-
Kendrapara	FW	OFC	CRP	Integrated nutrient management in hybrid rice	1	01	25	-	-	-	-	-	-	-
Kendrapara	FW	OFC	PLP	Care and management of paddy straw mushroom in summer season	1	01	20	1	-	3	-	1	-	-
Kendrapara	FW	OFC	PLP	Safe and judicious use of pesticide	1	01	25	-	-	-	-	-	-	-
Kendrapara	FW	OFC	PLP	Seed borne diseases of paddy and their	1	01	22	-	2	-	-	1	-	-

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		
				management										
Kendrapara	FW	OFC	PLP	Integrated pest management in Kharif paddy	1	01	25	-	-	-	-	-	-	-
Kendrapara	FW	OFC	PLP	Integrated disease management in Kharif paddy	1	01	19	2	-	2	-	-	1	1
Kendrapara	FW	OFC	PLP	Integrated disease management in jute	1	01	24	1	-	-	-	-	-	-
Kendrapara	FW	OFC	PLP	Disease management in banana	1	01	24	-	-	-	-	-	1	-
Kendrapara	FW	OFC	PLP	Pests of Brinjal and their management.	1	01	23	-	-	-	-	-	1	1
Kendrapara	FW	OFC	PLP	pest management in coconut	1	01	24	1	-	-	-	-	-	-
Kendrapara	FW	OFC	PLP	Disease management of cole crops	1	01	21	-	2	-	1	-	1	-
Kendrapara	FW	OFC	PLP	Integrated disease management in sunflower	1	01	25	-	-	-	-	-	-	-
Kendrapara	FW	OFC	PLP	Integrated disease management of potato	1	01	20	1	-	-	-	1	2	-
Kendrapara	FW	OFC	FIS	Preparation of fish pond	1	01	25	-	-	-	-	-	-	-
Kendrapara	FW	OFC	FIS	Composite fish culture	1	01	24	-	-	-	-	-	1	-
Kendrapara	FW	OFC	FIS	Fish disease and its control	1	01	23	1	-	-	-	-	1	-
Kendrapara	FW	OFC	FIS	Floating fish feed management in pisciculture	1	01	24	-	-	-	-	-	1	-
Kendrapara	FW	OFC	FIS	Feed management in aquaculture	1	01	20	1	3	-	-	1	-	-
Kendrapara	FW		FIS	Aquatic weed control in fishery	1	01	25	-	-	-	-	-	-	-
Kendrapara	FW	OFC	HOV	Nursery raising techniques for cultivation of Kharif tomato	1	01	20	1	-	3	-	1	-	-
Kendrapara	FW	OFC	HOV	Integrated nutrient management for off season cultivation of cole crops	1	01	25	-	-	-	-	-	-	-

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		
Kendrapara	FW	OFC	HOV	Integrated nutrient management in brinjal	1	01	22	-	2	-	-	1	-	-
Kendrapara	FW	OFC	HOP	Post harvest management of potato	1	01	25	-	-	-	-	-	-	-
Kendrapara	FW	OFC	HOF	Selection of banana suckers and its treatment before banana cultivation	1	01	25	-	-	-	-	-	-	-
Kendrapara	FW	OFC	HOF	Fertilizer management in banana plantations	1	01	24	-	1	-	-	-	-	-
Kendrapara	FW	OFC	HOO	Fertilizer management of young orchards	1	01	20	-	4	-	1	-	-	-
Kendrapara	FW	OFC	HOO	Layout for planting of fruits and vegetables suitable for pond embankment	1	01	23	-	-	2	-	-	-	-
Kendrapara	FW	OFC	HOS	Fertilizer management in chilli	1	01	21	-	2	-	2	-	-	-
Kendrapara	FW	OFC	HOS	Weed management in rabi onion	1	01	18	1	2	-	2	-	1	-
Kendrapara	FW	OFC	HOM	Use of locally available medicinal and aromatic plants	1	01	22	-	2	-	-	-	1	-
Kendrapara	FW	OFC	WOE	Scientific storage of food grain	1	01	-	20	-	2	-	3	-	-
Kendrapara	FW	OFC	WOE	Backyard rearing of duckery for income generation	1	01	-	25	-	-	-	-	-	-
Kendrapara	FW	OFC	WOE	Drugery reduction implements for farm women	1	01	-	19	-	2	-	2	-	2
Kendrapara	FW	OFC	WOE	Planning, layout and maintenances of nutritional garden	1	02	-	21	-	2	-	1	-	1
Kendrapara	FW	OFC	WOE	Banaraja eggs and meat for food and nutritional security	1	01	-	20	-	2	-	3	-	-
Kendrapara	RY	ONC	CRP	Vermicompost production for self employment	1	05	10	-	2	-	-	2	1	-

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		
Kendrapara	RY	ONC	CRP	Certified Seed production for self employment	1	05	15	-	-	-	-	-	-	-
Kendrapara	RY	ONC	PLP	Self employment through Paddy straw mushroom cultivation	1	02	20	-	-	-	-	-	-	-
Kendrapara	RY	ONC	PLP	Self employment through oyster mushroom cultivation	1	02	19	1	-	-	-	-	-	-
Kendrapara	RY	ONC	HOV	Seed production and seed extraction techniques in self pollinated vegetable crops	1	02	15	-	-	-	-	-	-	-
Kendrapara	RY	ONC	FIS	Fish seed production in FRP hatchery	1	02	14	-	1	-	-	-	-	-
Kendrapara	RY	ONC	FIS	Ornamental gold fish production	1	02	13	-	2	-	-	-	-	-
Kendrapara	RY	ONC	FIS	Pond base farming system	1	02	10	-	-	-	-	-	-	-
Kendrapara	RY	ONC	WOE	Care and management of backyard poultry	1	02	-	12	-	1	-	-		2
Kendrapara	RY	ONC	WOE	Capacity building of farm women in flower production	1	02	-	15	-	-	-	-	-	-
Kendrapara	RY	ONC	EXP	Fodder cultivation for big and small ruminants	1	01	24	-	-	-	-	-	1	-
Kendrapara	RY	ONC	EXP	In-situ moisture conservation technologies for better land and water management	1	01	23	1	-	-	-	-	1	-
Kendrapara	RY	ONC	EXP	Integrated farming system for sustainable livelihoods	1	02	24	-	-	-	-	-	1	-
Kendrapara	RY	ONC	EXP	Management of Available Natural Resources	1	02	20	1	3	-	-	1	-	-
Kendrapara	RY	ONC	EXP	Agro-forestry model and its importance on livelihood	1	02	25	-	-	-	-	-	-	-
Kendrapara	RY	ONC	EXP	Farm Problem Analysis and its utilization in farm management	1	02	25	-	-	-	-	-	-	-

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		
Kendrapara	IS	ONC	CRP	Organic farming for sustainable Agriculture	1	01	15	-	-	-	-	-	-	-
Kendrapara	IS	ONC	PLP	Botanicals and bio-agent used for control of pests of paddy	1	01	9	-	1	-	-	-	-	-
Kendrapara	IS	ONC	FIS	Cage and pen culture in reservoirs	1	02	10	-	-	-	-	-	-	-
Kendrapara	IS	ONC	FIS	Ornamental fish production for entrepreneurship development	1	02	13	-	1	-	1	-	-	-
Kendrapara	IS	ONC	HOO	Protected cultivation technology	1	01	8	-	2	-	-	-	-	-
Kendrapara	IS	ONC	WOE	Preservation and processing of fruits and vegetables	1	02	-	8	-	2	-	-	-	-
Kendrapara	IS	ONC	WOE	Cultivation of different fodder crops	1	02	-	9	-	-	-	-	-	1
Kendrapara	IS	ONC	EXP	SHG, FIG, CIG and WIG formation and management	1	01	24	-	-	-	-	-	1	-
Kendrapara	IS	ONC	EXP	Formation of farmers club and federation	1	01	23	1	-	-	-	-	1	-
Kendrapara	IS	ONC	EXP	Knowledge sharing and technology blending	1	01	24	-	-	-	-	-	1	-
Kendrapara	IS	ONC	EXP	Gender mainstreaming through SHGs	1	01	20	1	3	-	-	1	-	-

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

Name of KVK	Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)	Number of Beneficiaries					
					SC		ST		Others	
					M	F	M	F	M	F
Kendrapara	Integrated farming system model for self employment	crop	Integrated farming	05	2	-	-	-	8	-
Kendrapara	Bee keeping for profit and pleasure	Enterprise	Bee keeping	03	-	2	-	1	12	-
Kendrapara	Propagation techniques of horticultural plants	Crop	Planting material production	05	2	-	-	-	8	-
Kendrapara	Fry and fingerling rearing	crop	Production technology	03	2	-	-	-	8	-
Kendrapara	Promotion of livelihood support through different golden grass crafts	enterprise	Rural craft	05	2	-	-	-	8	-
Kendrapara	Preparation of Business Development Plan for SHG/FC		Promotion of enterprises	03	1	1	-	-	8	-

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

Name of KVK	Training title	Self employed after training			Number of persons employed elsewhere
		Type of units	Number of units	Number of persons employed	
Kendrapara	Backyard rearing of duckery for income generation	Small scale unit	15	200	Nil
Kendrapara	Banaraja eggs and meat for food and nutritional security	Small scale unit	10	150	Nil
Kendrapara	Care and management of backyard poultry	Poultry rearing	10	50	Nil

Table 5.6 Evaluation/Follow up & Impact of the training programmes conducted by the KVK (all types of trainings)

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Kendrapara	Integrated Nutrient Management in Jute	25	36	68	-	-	-	-	1. 69 ha 2. 18 No. adopted 3. i. knowledge- 88.88%
Kendrapara	Integrated Weed management in jute	25	23	59	-	-	-	-	1. 28 ha 2. 14 No. adopted 3. i. knowledge- 156.52%
Kendrapara	Liming of Acid soil for higher productivity	25	35	78	-	-	-	-	1. 92 ha 2. 21 No. adopted 3. i. knowledge- 122.85%
Kendrapara	Integrated weed management in paddy	20	29	63	-	-	-	-	1. 74 ha 2. 9 No. adopted 3. i. knowledge- 117.24%
Kendrapara	Use of bio-fertilizer in paddy	20	25	60	-	-	-	-	1. 62 ha 2. 14 No. adopted 3. i. knowledge- 238.88%
Kendrapara	Integrated Farming system for livelihood security	25	14	43	-	-	-	-	1. 32 ha 2. 6 No. adopted 3. i. knowledge- 20% , 14%
Kendrapara	Inter cropping for higher yield and sustainability	25	18	61	-	-	-	-	1. 62 ha 2. 14 No. adopted 3. i. knowledge- 238.88%
Kendrapara	Use of Biofertiliser in Pulses (greengram,black gram)	25	32	68	32	51	17000	35000	1. 220 ha 2. Out of 25 trainees 13 trainee adopted 3. i. knowledge- 112% ii. Production- 59% iii. Income- 105%

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	
Kendrapara	Gypsum application in oilseed crops (ground nut, mustard)	25	38	62	34	44	18000	27000	1. 116 ha 2. Out of 25 trainee 9 trainees adopted the inter cropping practice 3.i. Knowledge- 63% , Production- 29%, Income- 50%
Kendrapara	SRI method of rice cultivation to mitigate climate change	25	38	57	33	40	16000	23000	1. 156 ha 2. Out of 25 farmers 16 founded the bio-fertilizer application in paddy. 3.i. Knowledge- 50% Production- 21% Income- 44%
Kendrapara	Integrated weed management in groundnut	25	32	68	32	51	17000	35000	1. 220 ha 2. Out of 25 trainees 13 trainee adopted 3. i. knowledge- 112% ii. Production- 59% iii. Income- 105%
Kendrapara	Integrated nutrient management in hybrid rice	10	32	47	35	42	14000	21,000	1. 111 ha 2. Out of 10 trainees 3 trainee adopted 3. i. knowledge- 46% ii. Production- 20% iii. Income- 50%
Kendrapara	Vermicompost production for self employment	50	28	68	-	-	-	-	1. 76 ha 2. 45 No. of farmer adopted technology 3. i. Knowledge- 142.8%
Kendrapara	Certified Seed production for self employment	25	22	40	165	202	22,500	39,000	1. 21 ha 2. 12 No. of farmer adopted technology 3. i. Knowledge- 81.8% ii. Production-22.4%, iii. Income- 73..3%
Kendrapara	Integrated farming system model for self employment	25	18	35	-	-	-	-	1. 52 ha 2. 15 No. of farmer adopted technology 3. i. Knowledge- 94.4%

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	
Kendrapara	Organic farming for sustainable Agriculture	25	45	72	36	45	1400	2300	1. 48 ha 2. 14 No. of farmer adopted technology 3. i. Knowledge- 60%, ii. Production- 25% iii. Income- 64.3%
Kendrapara	Care and management of paddy straw mushroom in summer season	25	40	70	1	1.5	701	105	1. 100 villages of the district 2. 700 adopted the technology 3. i. Knowledge- 75%, ii. Production- 50% iii. Income- 50%
Kendrapara	Safe and judicious use of pesticide	25	10	30	-	-	-	-	1. Area expanded 80 ha 2. No of farmers adopted- 250 nos. 3. i. Knowledge- 20%
Kendrapara	Seed borne disease of paddy and their management	25	10	45	-	-	-	-	1. Area expanded 200 ha 2. No of farmers adopted- 400 nos. 3. i. Knowledge- 77%
Kendrapara	Integrated pest management in kharif paddy	25	25	55	-	-	-	-	1. Area expanded 150 ha 2. No of farmers adopted- 200nos. 3. i. Knowledge- 54%
Kendrapara	Integrated disease management in kharif paddy	25	20	40	-	-	-	-	1. Area expanded 120 ha 2. No of farmers adopted- 150nos. 3. i. Knowledge- 40%
Kendrapara	Integrated disease management in jute	25	30	55	-	-	-	-	1. Area expanded 25 ha 2. No of farmers adopted- 50 nos. 3. i. Knowledge- 54%
Kendrapara	Pest and disease management in banana	25	25	63	350	450	35,600	46,800	1. 50 ha 2. Out of 25 trainees 8 farmers adopted the scientific pest and disease in banana 3.i. Knowledge- 60% ii. Production- 22% iii. Income- 23.93%

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	
Kendrapara	Pests of Brinjal and their management.	25	48	70	300	450	28,860	44,430	1. 80 ha 2. Out of 25 trainees 14 farmers adopted the scientific pest management in brinjal 3.i. Knowledge- 31.42% ii. Production- 33.33% iii. Income- 35.04%
Kendrapara	Disease and pest management in coconut	25	15	45	35	55	28,00	5,600	1. 150 ha 2. Out of 25 trainees 18 farmers adopted the disease and pest management in coconut 3.i. Knowledge- 66.66% ii. Production- 36.36% iii. Income- 50%
Kendrapara	Disease management of cole crops	25	55	65	250	300	1,10,000	1,50,000	1. 85 ha 2. Out of 25 trainees 11 farmers adopted the integrated disease management of cole crops 3.i. Knowledge- 15.38% ii. Production- 16.66% iii. Income- 26.66%
Kendrapara	Integrated pest management of potato	25	24	52	160	192	30,000	46000	1. 58 ha 2. 15 No. of farmer adopted technology 3. i. Knowledge- 116.6%, ii. Production- 20% iii. Income- 53.5%
Kendrapara	Integrated disease management of potato	25	47	67	10	210	80,000	105000	1. 80 ha 2. Out of 25 trainees 11 farmers adopted the scientific disease management of potato 3.i. Knowledge- 29.85% ii. Production- 23.80% iii. Income- 23.50%
Kendrapara	Self employment through Paddy straw mushroom cultivation	50	50	80	1	1.5	70	105	1.90 villages 2.600 adopted the technology 3. i. Knowledge-60 % ii. Production –50 % iii. Income- 50 %

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	
Kendrapara	Self employment through oyster mushroom cultivation	50	45	70	1kg	1.5 kg	40	60	1.130 villages 2.40 adopted the technology 3. i. Knowledge-55.6 % ii. Production –50 % iii. Income- 50 %
Kendrapara	Bee keeping for profit and pleasure	15	20	57	5	10	1000	2000	1.10 villages 2. Out of 15 trainees 5 farmers adopted the recommended scientific bee keeping 3.i. Knowledge- 64.91% ii. Production- 50% iii. Income- 50%
Kendrapara	Botanicals and bio-agent used for control of pests of different crop.	25	45	72	36	45	1400	2300	1. 48 ha 2. 14 No. of farmer adopted technology 3. i. Knowledge- 60%, ii. Production- 25% iii. Income- 64.3%
Kendrapara	Preparation of fish pond	25	45	72	36	45	1400	2300	1. 48 ha 2. 14 No. of farmer adopted technology 3. i. Knowledge- 60%, ii. Production- 25% iii. Income- 64.3%
Kendrapara	Seed production in portable FRP carp hatchery	25	24	52	160	192	30,000	46000	1. 58 ha 2. 15 No. of farmer adopted technology 3. i. Knowledge- 116.6%, ii. Production- 20% iii. Income- 53.5%
Kendrapara	Seed production in portable FRP carp hatchery	25	47	67	10	210	80,000	105000	1. 80 ha 2. Out of 25 trainees 11 farmers adopted the scientific disease management of potato 3.i. Knowledge- 29.85% ii. Production- 23.80% iii. Income- 23.50%

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	
Kendrapara	Nursery pond management	25	18	35	-	-	-	-	1. 52 ha 2. 15 No. of farmer adopted technology 3. i. Knowledge- 94.4%
Kendrapara	Fry fingerling rearing	25	45	72	36	45	1400	2300	1. 48 ha 2. 14 No. of farmer adopted technology 3. i. Knowledge- 60%, ii. Production- 25% iii. Income- 64.3%
Kendrapara	Composite fish culture	25	42	65	-	-	-	-	1. 112 ha 2. 20 No. of farmer adopted technology 3. i. Knowledge- 54.7%
Kendrapara	Integrated farming system	25	36	68	-	-	-	-	1. 69 ha 2. 18 No. adopted 3. i. knowledge- 88.88%
Kendrapara	Aquatic weed control in fishery	25	23	59	-	-	-	-	1. 28 ha 2. 14 No. adopted 3. i. knowledge- 156.52%
Kendrapara	Ornamental gold fish production	25	35	78	-	-	-	-	1. 92 ha 2. 21 No. adopted 3. i. knowledge- 122.85%
Kendrapara	Integrated disease management of fish pond	25	24	52	160	192	30,000	46000	1. 58 ha 2. 15 No. of farmer adopted technology 3. i. Knowledge- 116.6%, ii. Production- 20% iii. Income- 53.5%
Kendrapara	Feed management in aquaculture	25	47	67	10	210	80,000	105000	1. 80 ha 2. Out of 25 trainees 11 farmers adopted the scientific disease management of potato 3.i. Knowledge- 29.85% ii. Production- 23.80% iii. Income- 23.50%

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	
Kendrapara	Fresh water prawn culture	25	24	36	-	-	-	-	1. 38 ha 2. Out of 25 trainees 11 farmers adopted the Post harvest management practice of potato. 3. i. Knowledge- 50%
Kendrapara	Seed production in portable FRP carp hatchery	45	23	32	-	-	-	-	1. 123 ha 2. Out of 25 trainees 15 farmers applied fertilizers to the coconut/ papaya/banana plantation. 3. i. Knowledge- 36%
Kendrapara	Preparation of value added fishery products	45	34	56	52	98	-	-	1. 28 ha 2. Out of 25 trainees 9 farmers adopted the technology of proper layout of pond embankment. 3. i. Knowledge- 45.7%
Kendrapara	Diversification of aquaculture practices	30	18	28	-	-	-	-	1. 62 ha 2. Out of 25 trainees 10 farmers adopted the proper method of raising nursery for Kharif tomato. 3. i. Knowledge- 31%
Kendrapara	Fish diseases and its control	20	29	63	-	-	-	-	1. 74 ha 2. 9 No. adopted 3. i. knowledge- 117.24%
Kendrapara	Nutrient management in pisciculture	25	45	76	92	143	36800	57200	1.18 ha 2.20 adopted the technology 3. i. Knowledge-68.8 % ii. Production –55.4 % iii. Income- 55.4%
Kendrapara	Selection of banana suckers and its treatment before banana cultivation	25	49	73	-	-	-	-	1. 32 ha 2. Out of 25 trainees 12 farmers adopted the proper planting material treatment before planting along suckers. 3. i. Knowledge- 48%

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	
Kendrapara	Nursery raising techniques for cultivation of Kharif tomato	25	29	38	-	-	-	-	1. 62 ha 2. Out of 25 trainees 10 farmers adopted the proper method of raising nursery for Kharif tomato. 3. i. Knowledge- 31%
Kendrapara	Fertilizer management of young orchards	25	39	53	-	-	-	-	1. 123 ha 2. Out of 25 trainees 15 farmers applied fertilizers to the coconut/ papaya/banana plantation. 3. i. Knowledge- 36%
Kendrapara	Layout for planting of fruits and vegetables suitable for pond embankment	25	35	51	-	-	-	-	1. 28 ha 2. Out of 25 trainees 9 farmers adopted the technology of proper layout of pond embankment. 3. i. Knowledge- 45.7%
Kendrapara	Propagation technique of ornamental plants	25	28	36	-	-	-	-	1. 14 ha 2. Out of 25 trainees 8 trainees have started their small scale nursery for supply of planting materials of ornamental plants. 3. i. Knowledge- 28.5%
Kendrapara	Integrated nutrient management for off season cultivation of cole crops	25	46	58	-	-	-	-	1. 61 ha 2. Out of 25 trainees 12 farmer. have gone for integrated nutrient management in off season cole crops (cauliflower). 3. i. Knowledge- 26.0%
Kendrapara	Fertilizer management in banana plantations	25	28	37	-	-	-	-	1. 23 ha 2. Out of 25 trainees 7 went for integrated nutrient management in banana orchards. 3. i. Knowledge – 32.1%
Kendrapara	Integrated nutrient management in brinjal	10	42	59	-	-	-	-	1. 72 ha 2. Out of 25 trainees 12 went for integrated nutrient management in brinjal 3. i. Knowledge- 40.4%

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	
Kendrapara	Fertilizer management in chilli	25	48	73	-	-	-	-	1. 32 ha 2. Out of 25 trainees 14 farmers adopted the proper dose of fertiliser application in chilli. 3. i. Knowledge- 52.08 %
Kendrapara	Weed management in rabi onion	25	25	41	-	-	-	-	1. 71 ha 2. Out of 25 trainees 10 farmers adopted the weed management practice in rabi onion. 3. i. Knowledge- 64 %
Kendrapara	Use of locally available medicinal and aromatic plants	25	27	34	-	-	-	-	1. 41 ha 2. Out of 25 trainees 12 farmers are using locally available medicinal and aromatic plants. 3. i. Knowledge- 25.92 %
Kendrapara	Post harvest management of potato	25	24	36	-	-	-	-	1. 38 ha 2. Out of 25 trainees 11 farmers adopted the Post harvest management practice of potato. 3. i. Knowledge- 50%
Kendrapara	Staggered planting material of marigold for round the season production of flowers	25	14	21	-	-	-	-	1. 14 ha 2. Out of 25 trainees 8 trainees have started Staggered planting material of marigold for round the season production of flowers. 3. i. Knowledge- 42.85%
Kendrapara	Value addition of milk	25	25	50	-	-	950	1700	1.10 villages 2.900 adopted the technology 3. i. Knowledge-25 % iii. Income- 78.9 %
Kendrapara	Income generation activities involved in paddy straw mushroom cultivation	25	25	50	-	-	950	1700	1.20 villages 2.700 adopted the technology 3. i. Knowledge-25% ii. Income- 78.9 %

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	
Kendrapara	Value added product from paddy straw mushroom	50	50	80	1	1.5	70	105	1.90 villages 2.600 adopted the technology 3. i. Knowledge-60 % ii. Production –50 % iii. Income- 50 %
Kendrapara	Vermiculture and composting activity taken up by women in SHG	10	44	79	6	10	3000	6000	1. 160 ha 2. Out of 10 trainees 6 trainee adopted 3. i. knowledge- 79% ii. Production- 66% iii. Income- 100%
Kendrapara	Oyster mushroom cultivation	25	45	76	92	143	36800	57200	1.18 ha 2.20 adopted the technology 3. i. Knowledge-68.8 % ii. Production –55.4 % iii. Income- 55.4%
Kendrapara	Preparation of different type of pickle from mushroom, drying of mushroom	50	45	70	1kg	1.5 kg	40	60	1.130 villages 2.40 adopted the technology 3. i. Knowledge-55.6 % ii. Production –50 % iii. Income- 50 %
Kendrapara	Value added product from tomato	25	25	50	-	-	950	1700	1.10 villages 2.900 adopted the technology 3. i. Knowledge-25 % iii. Income- 78.9 %
Kendrapara	Scientific storage of food grain	10	44	79	6	10	3000	6000	1. 160 ha 2. Out of 10 trainees 6 trainee adopted 3. i. knowledge- 79% ii. Production- 66% iii. Income- 100%
Kendrapara	Backyard rearing of duckery for income generation	25	38	52	1kg per bird	1.5	80	120	1. 30 villages 2. Out of 10 trainees 25 trainee 21adopted 3. i. knowledge- 36.8% ii. Production- 50% iii. Income- 50%

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	
Kendrapara	Drugery reduction implements for farm women	50	45	70	1kg	1.5 kg	40	60	1.130 villages 2.40 adopted the technology 3. i. Knowledge-55.6 % ii. Production –50 % iii. Income- 50 %
Kendrapara	Planning, layout and maintenances of nutritional garden	15	45	70	-	-	4500	6000	1.8 villages 2.Out of 15 trainees 7 adopted the technology 3. i. Knowledge-55.6 % ii.Income- 33.3 %
Kendrapara	Banaraja eggs and meat for food and nutritional security	50	24	38	92	143	36800	57200	1.18 ha 2.Out of 50 trainees 32 adopted the technology 3. i. Knowledge-58.3 % ii. Production –55.4 % iii.Income-55.4 %
Kendrapara	Farmers youth club and its management	25	10	40	-	-	-	-	1.20 villages 2.25 adopted 3. Knowledge-40 %
Kendrapara	Formation of SHG federation and its management	25	30	70	-	-	-	-	1.32 villages 2.28 SHGs adopted 3. Knowledge-70 %
Kendrapara	Integrated faming for sustainable livelihoods	25	10	60	-	-	-	-	1.16 villages 2.7 adopted 3. Knowledge-60 %
Kendrapara	Knowledge sharing technology blending (networking)	25	5	40	-	-	-	-	1.5 villages 2.25 adopted 3. Knowledge-40 %
Kendrapara	In-situ moisture conservation technologies for better land and water management	25	15	26	-	-	-	-	1. 10 villages 2. Out of 25 farmers 14 farmers have been followed post harvest processing and value addition 3. Knowledge-60 %

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	
Kendrapara	Agro-forestry model and land use practices	25	12	21	-	-	-	-	1. 5 villages 2. Out of 25 farmers 9 farmers are interested on Farm entrepreneurship for self employment. 3. Knowledge-75 %
Kendrapara	Fodder cultivation for big and small ruminants	25	24	37	-	-	-	-	1. 10 villages 2. Out of 25 farmers 15 farmers are interested on farm diversification 3. Knowledge-54.16 %
Kendrapara	Micro planning for farm problem management	25	8	12	-	-	-	-	1. 6 villages 2. Out of 25 farmers 18 farmers are interested to analyse their farm problems and need based planning 3. Knowledge-50 %
Kendrapara	Bio-village concept to adoption practices for better resource management	25	31	54	-	-	-	-	1. 11 villages 2. Out of 25 farmers 20 farmers are interested on Commercial farming for more production and profit 3. Knowledge-74.19 %
Kendrapara	Management of Available Natural Resources	25	22	36	-	-	-	-	1. 8 villages 2. Out of 25 farmers 17 farmers are interested on management of available natural resources for maximum benefits 3. Knowledge-63.63 %
Kendrapara	Land use planning and crop calendar	25	10	60	-	-	-	-	1. 16 villages 2. 7 adopted 3. Knowledge-60 %

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			
Kendrapara	Field Day	20	20							For FLDs		
Kendrapara	Kisan Mela	2	2							Familiar with rural farmers environment for knowledge sharing & blending		
Kendrapara	Exhibition	4	4									
Kendrapara	Film Show	10	8							To show the agriculture and allied sectors innovations and technologies		
Kendrapara	Method Demonstrations	10	7	183	72	85	53	25	12	Learning by doing		
Kendrapara	Farmers Seminar	2	1	15	10					Interaction with Govt. official and scientists on different farm related issues		
Kendrapara	Workshop	08	07									
Kendrapara	Group meetings	16	15							Interaction with farmers group on agriculture technical know-how		
Kendrapara	Lectures delivered as resource persons	30	25	150	30	20	15	25	6	New improved practices and technologies related agriculture and allied sector		
Kendrapara	Newspaper coverage	22	22							Agril. Innovation, new varieties, implements and improved package and practices		
Kendrapara	Radio talks	15	13							IPM, IDM, INM, IFS		

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			
										and success stories		
Kendrapara	TV talks	36	34							success stories of crops and allied sectors		
Kendrapara	Popular articles		10							Need based popular articles		
Kendrapara	Extension Literature		04	-	-	-	-	-	-	-		
Kendrapara	Scientific visit to farmers field		3165							Solving various problems of farmers related to agriculture		Different critical growth stages of crops
Kendrapara	Farmers visit to KVK		2655							Taking technical advice from scientists to grow different crops, mushroom, poultry, fishes, vermicompost and FSRE models, purchasing seeds, planting materis, soil testing		Different critical stages of growth
Kendrapara	Diagnostic visits	98	98			-	-	-	-	Solving various problems	-	-
Kendrapara	Exposure visits		3	78	22	18	-	28	12	Visit to the demo units of KVK		
Kendrapara	Ex-trainees Sammelan	2	2				-	-	-	To know about the dissemination of technology	Agriculture prospective through farm innovation and knowledge	

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			
											sharing	
Kendrapara	Soil health Camp											
Kendrapara	Animal Health Camp		1(34)	34	-	-	-	-	-	Vaccinaztion and deworming of livestock	-	-
Kendrapara	Soil test campaigns											
Kendrapara	Farm Science Club conveners meet		7	145		18				Basic Awareness and rapport building	New improved crop management practices	Pre, Mid and post
Kendrapara	Self Help Group conveners meetings		5		20		3			Group dynamics and IGA activities	Mushroom cultivation and golden grass	Pre and post
Kendrapara	Celebration of important days		3	50	-	-	28	15	7	Akhitutia and women day celebration , world food day	Sowing of seed and women empowerment	

7. Literature Developed/Published (with full title, author & reference)

7.1 KVK Newsletters

KVK Name	Date of start	Periodicity	Number of copies printed	Number of copies distributed
Kendrapara	April 2011 and 1 st January, 2012	6 months	500	500

7.2 Literature developed/published

KVK Name	Date of start	Periodicity	Number of copies printed	Number of copies distributed
KVK Name	Type	Title	Author's name	Number of copies
Kendrapara	Leaflet	Babasayika Bhitire Chattu chasa	Sri Manoj Kumar Rout, Mrs. Namita Mahapatra	500
Kendrapara	Leaflet	Dhana fasala re roga poka parichalana	Sri Manoj Kumar Rout, Mrs. Anjali Ray	500
Kendrapara	Leaflet	Muga biri fasalare roga poka parichalana	Sri Manoj Kumar Rout, Sri. Lalit Mohanty, Mrs. Anjali Ray	500

7.3 Details of Electronic Media Produced

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

8. Production and supply of Technological products

8.1 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
Kendrapara	Cereals	Paddy	Pooja	F.S	71.4 (After processing)	SD	1,47,084	
Kendrapara			Ranidhan	F.S	41.80 (After processing)	SD	86,338	
Kendrapara			Lalat	F.S	80	SD	1,78,400	
Kendrapara	Pulses	Greengram	OBGG-52	F.S	3.2 (After processing)	SD	29664	
Kendrapara	Fruits							
Kendrapara								
Kendrapara	Vegetables	Chilli	G4, Agnee kumari	PM	3068	Nos	2148	
Kendrapara		Brinjal	Hajari	PM	2590	Nos	1813	
Kendrapara		Tomato	TO-808, Utkal Raja, kafila	PM	2940	Nos	2018	
Kendrapara		Cabbage	Mellenium 111, BC-76	PM	2240	Nos	1568	
Kendrapara		Cauliflower	Gold star, snowball	PM	2940	Nos	2018	
Kendrapara		Papaya	Sinta, Dwarf honey dew	PM	850	Nos	8500	
Kendrapara		Onion (red)		PM	2000	Nos	1400	
Kendrapara	Floriculture				60 kg		1200	
Kendrapara	Others							

8.2 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	
kendrapara	Planting material	Chilli					PM	3068	10215	20,178	
kendrapara		Brinjal					PM	2590			
kendrapara		Tomato					PM	2940			
kendrapara		Cabbage					PM	2240			
kendrapara		Cauliflower					PM	2940			
		Papaya					PM	850			
		Onion (red)					PM	2000			
	Floriculture	Marigold						60kg			

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

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

8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.(kg/Nos.)	Cost of inputs	Gross income	
	Cattle						
	Buffalo						
	Sheep and Goat						
Kendrapara	Poultry	Colour bird Var. Blackrock, RIR, Banaraja,	Chicks	1700	54,680/-	83,000/-	
Kendrapara	Duckery	Khakichambel,	chicks	150	3202	6000	
Kendrapara	Turkey		chicks	10	2240	3500	
Kendrapara	Fisheries	IMC	fingerlings	2,96,000	32,576/-	74,400/-	
Kendrapara	Others (Specify) Mushroom	Volvariella. Volcea, P. Sajorcaju		256 kg	10030	12800	
Kendrapara	Mushroom spawn				1052	1920	
Kendrapara	Honey bee		Apis Cerana indica	12kg	-	3000	
Kendrapara	vermicompost			6qtl	1500	3000	

12. Utilization of Staff Quarters facilities

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
Kendrapara	2009-10	2010	06	Nil	

13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Kendrapara	12.09.2012	30	<ol style="list-style-type: none">1. All the farmers involved in integrated farming system of the district should be identified and invited to KVK for interaction.2. Tagging of paddy seed should be done before selling it to the farmers3. Bio-agents and yellow sticky trap should be popularized among the farmers4. Literature should be prepared in collaboration with State Agril. Department and NABARD5. Supplementary income generation activity should be increased

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

KVK Name	No. of messages sent	No. of beneficiary		Major recommendations
		Farmers	Ext. Pers.	
Kendrapara	115	1050		Seed treatment, INM, IPM, IDM

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

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs.)	Activities organized	Operational Area	Remarks
Kendrapara	ATMA	State	50,00,000	-	-	-
	MNREGA					
	NHM					
	RKVY	State	42,500	Vermiyard, Mushroom spawn unit and poly house		
	DRDA					
	Zila Panchyat					
	Seed village					
	NAIP					
	Climate Change	Central(CRIDA)	9,70,000/-	Purchase of small implements for custom hiring centre & purchase of inputs for different agricultural interventions proposed in the village, repairing of farm pond, seed bank etc.	Krushnadaspur, Kendrapara	
	Others (Plz. Specify)					

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Kendrapara	30878179008	1,75,554	1,98,692	

17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Kendrapara				

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

Name of the KVK, **TITLE**, **Introduction**, KVK intervention, Output, Outcome, Impact

Mushroom cultivation

(KVK, KENDRAPARA)

- 1) Name of the enterprise— Mushroom cultivation
- 2) Name and complete address of entrepreneur- Name- Smt. Kanchana Bala Mallick

Vill- Kacheripara

Block-Kendrapara

Dist-Kendrapara

- 3) Introduction-

Smt. Kanchan Bala Mallick, a rural schedule caste women of village Kacheripada of Kendrapara district having no landed property manages her family of four with lots of difficulty.

- 4) Interventions of KVK-

Once she came across a couple of vocational training of Krishi Vigyan Kendra, Kendrapara designed for farmers and farm women. As mushroom production is a good enterprise gives high remuneration within a short period. After being trained by KVK, Scientist, Mrs. Kanchana Bala Mallick form a SHG of “Tarini SHG” has taken leading role among the SHG members and started cultivation of both paddy straw and oyster mushroom through out the year.

- 5) Technical components in the enterprise-

- i. Selection of good quality mushroom spawn (Volvariella volvaca, Pleurotus sajorcaju)
- ii. Substrate pasteurization method i.e, soaking of paddy straw in clean water adding 2% Calcium Carbonate in case of Volvariella volvaca and steaming the straw in case of Pleurotus sajorcaju
- iii. Preparation of mushroom bed

- iv. Addition of extra nutrient like rice bran, pulse powder etc.
- v. Harvesting of mushroom in appropriate time as for the need of market

6) Status of entrepreneur before and after the enterprise

Now her annual income is Rs. 1,00,000. She furnished her house with TV, phone and other accessories. Her further aspiration is to receive training from KVK, about mushroom spawn production and value added products and flourish her enterprise within district and state

7) Horizontal spread of enterprise

She is marketing the mushroom in Kendrapara town and Paradeep market. Due to her success, now she is the Secretary of "Tarini SHG" and also became the secretary of village cooperative society and member of disaster management team established by Lutheran World Service. As her income is increasing, she received financial assistance of Rs. 1,000,00 from Pradhan Mantri Gramina Swarojgar Yojana (PMGSY) for establishment of permanent mushroom unit

19. Details of KVK Agro-technological Park

Name of KVK	Name of Component of Park	Detail Information (If established)
	Crop Cafeteria	Medicinal plants, Grass, Flowers, Acacia mangium, Azolla, Vegetables, IFS Model and Banana
	Technology Desk	-
	Visitors Gallery	-
	Technology Exhibition	Poly house, Mushroom spawn unit, Vermicompost, Carp hatchery, Colour fish, Duckery, poultry and Turkey bird
	Technology Gate-Valve	-

20. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	Remarks
	Dr. S.R.K Singh, Sr. Scientist, ZPD, Zone-VII, Jabalpur (MP)	18.04.2012	
	Dr. K.D Kokate, DDG (Agriculture Extension)	29.07.2012	Highly appreciated the work of Carp hatchery
	ZPD, Dr. Anupam Mishra	29.07.2012	
	Dr. S. K Nanda, Hon'ble, DEE, OUAT, BBSR	29.07.2012	
	T. Mohapatra, Director, CRRI, Cuttack	07.08.2012	
	R.C Swain, State Coordinator Extension activities, Govt. of Odisha	23.08.12	
	Prof. K. Pradhan, EX- Vice chancellor, OUAT	19.01.2013	

21. Status of KVK Website: Available- www.kvkkendrapara.org.in

22. E-CONNECTIVITY

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

23. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
KENDRAPARA	Gosthies	1	35	
	Lectures organized	114	448	
	Exhibition	4	-	
	Film show	-	-	
	Fair	2	100	
	Farm Visit	434	39012	
	Diagnostic Practical's	310	1167	
	Distribution of Literature (No.)	11	5500	
	Distribution of Seed (q)	150	420	
	Distribution of Planting materials (No.)	2800	543	
	Bio Product distribution (Kg) vermicompost 400kg utilized in OFT programme & FLD programme			
	Bio Fertilizers (q)	15		
	Distribution of fingerlings (No)	2	40	
	Distribution of Livestock specimen (No.)	1250	440	
	Total number of farmers visited the technology week		1	100

24. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries

Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
KENDRAPARA	Oilseeds	202.20	630
	Pulses		
	Cereals		
	Vegetable crops		
	Tuber crops		
	Fruits		
	Spices		
	Cotton		
	Total		

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No.of participants
	Dairy Management	5	119
	Disease management		
	Feed and fodder technology		
	Poultry management		

Animal health camps organised

Name of KVK	Number of camps	No.of animals	No.of farmers
	1	185	52

Seed distribution in drought hit states

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

Seedlings and Saplings distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
Seedlings				
KVK, Kendrapara				

Bio-control Agents

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

(e) Bio-Fertilizer

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

(f) Verms Produced

Name of KVK	Verms Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers
Kendrapara	Eudrilus euginaea	4	4.8	12

(g) Large scale adoption of resource conservation technologies

Name of KVK	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Kendrapara	SRI(Ranidhan)	1.0	25
Kendrapara	Water harvesting structure	0.1	25

(h) 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

25. **Status of KVK Website:** Already having website/under construction

If available, please provide the address of website: www.kvkkendrapara.org.in



*We stand for training, technology
innovation, blending & dissemination*