

ANNUAL PROGRESS REPORT

April 2016 to March 2017

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Instructions for Filling the Format

1. Do not change/modify/ delete any column of any of the table. However, additional rows can be created, if required.
2. Do not merge columns, rows.
3. Please repeat the name of KVK in each table in the column “Name of KVK”
4. Do not fill the non-numerical values in numeric field
5. Do not repeat the unit while reporting data as it is already mentioned in the heading row
6. Strictly fill the data in desired unit only. If it is reported in other unit, convert it in the desired unit
7. Please mention only standard English names of crops (Do not mention Urd, Arhar, Til, Kulthi, Moong, Bajra, etc.)
8. Additional relevant information may be provided at the end of Format by creating heading “Additional Information”
9. Also read the instructions mentioned just below the table
10. Your suggestions for improvement in the format for your simplicity as well as data compilation may be given at the end of the format
11. Do not press any Enter Key in any of the columns while making entry in the columns of the table. Use only arrow key /Tab key/ mouse pointer while movement from one column/row to another.
12. Grey color cells in summary table need not to be filled.
13. Crop name should be spelled correct and standard English name should be used i.e Cereals, Pulses, Oilseed:- Rice (not use Paddy), Wheat, Barley, Kodo, Kutki, Maize, Jwar, Bajra, Pigeon pea (not use Tur, Arhar, Red gram), Blackgram (not use Urd), Greengram (not use Moong/Moongbean), Chickpea (not use Gram, Chana), Field pea, Horse gram (Kulthi), Lentil, Mustard (not use Rai, Sarsoan), Soybean, Linseed, Groundnut, Sesame (not use Til), Niger (not use Ram Til), Safflower (not use Kusum).
Vegetable :- Vegetable pea, Bottle guard, Bitter guard, Okra (not use Bhindi or Ladies finger).
Fruits :- Mango, Guava, Custard apple, Pear etc.
Spices :- Black Peeper, Turmeric, Ginger, Cardamom etc.

REPORTING PERIOD – April 2016 to March 2017

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

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
1	On Farm Testing			
	Proposed OFT	8	62	
	On Going OFT	-	-	
	Technologies assessed (Completed OFT)	7	49	
	Technologies refined	-	-	
	On farm trials conducted	-	-	
2	Frontline demonstrations	-	-	
	Proposed Frontline demonstrations	-	-	
	On Going Frontline demonstrations	-	-	
	FLDs conducted on crops	11	456	
	Area under crops (ha.)	119	456	
	FLD on farm implement and tools	-	-	
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	1	100	
	FLD on Fisheries - Finger lings	-	-	
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	1	(10 SHG)111	
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	2	18	
3	Training programmes	No. of Course	Duration (days)	Participants
	Farmers / Farm women	19	30	475
	Farm women	3	6	75
	Rural youth	5	8	125
	Extension personnel/ In service	2	2	30
	Vocational trainings	2	10	30
	Sponsored Training	1	1	100
	Total	32	57	835
		No. of programmes	Participants	
4	Extension Programmes	450	4735	
5	Production of technology inputs etc	Qty	Beneficiaries (nos.)	
	Seed (qt.)	95.0	46	
	Planting material produced (nos.)	25497	54	
6	Livestock	Qty	Beneficiaries (nos.)	
	Livestock strains (Nos)	1000	100	
	- Milk Yield - Cow, Buffelo etc. (in liter)	-	-	
	Fish (Kg.)	-	-	
	Fingerlings (nos.)	-	-	
	Poultry-Eggs (nos.)	-	-	
	Ducks (nos.)	-	-	
	Chicks etc. (nos.)	-	-	

7	Bio Products	Qty	Beneficiaries (nos.)	
	Bio Agents -Earth worm (Kg.)	-	-	
	Trichoderma (kg.)	-	--	
	Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)	9.2	33	
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)			
8	Any other significant achievement in the Zone	Nos.	Participants/ beneficiaries	
	Award (Best KVK award and scientist and farmer's award)	1	1	
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	6	4000	
	KVK News letter	4	2000	
	SAC Meetings conducted	1	30	
	Soil sample tested	1089	1356	
	Water sample tested	15	10	
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)	-	-	
	KVK-KMA (Message and beneficiaries)	43	28532	
	Convergence programmes	2	50	
	Sponsored programmes	-	-	
	KVK Progressive Farmers interaction	1	25	
	No. of Technology Week Celebrations	1	230	
	Attended HRD activities organized by ZPD	-	-	
Attended HRD activities organized by DES	2	2		
Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc.)	-	-		
9	Current status of Revolving Funds (Amt. in Rs.)		-	
		No. of blocks	No. of villages	
10	Outreach of KVK in the District	13	48	
		ICAR	SAU	Others
11	No. of important visitors to KVK (nos.)	0	7	8
		Working (Yes/No)	No. of Update	
12	Status of KVK Website	Yes	54	
		Application received	Application disposed	
13	Status of RTI (nos.)	-	-	
		Query received	Query dissolved	
14	Citizen Charter (nos.)	437	437	
		Working (Yes/No)	No. of programme viewed	
15	E-connectivity	NO	-	
		Filled	Vacant	
16	Staff Position	11	5	
17	Workshop/ Seminar/ Conference attended by staff of KVK (nos)		12	
18	Publication received from ICAR /other organization (nos.)		13	
		Particulars	Organization	
19	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	07	ZPD, SAU, ICAR	

GENERAL INFORMATION

1.1. Staff Position (as on date)

Summary of Staff position in KVKs on March, 2016

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Kandhamal	16	1	1	6	2	3	2	6	6	16	11

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Per./Temp.	Category
Kandhamal	Programme Coordinator	Dr. Dharam Vir Singh	Agri. Extension	Ph. D.	Agri. Extension	15600-39100 (AGP 8000)	17800+8000	01.12.2013	Permanent	Other
Kandhamal	Subject Matter Specialist1	Sujit Kumar Mukhi	Soil Science	M.Sc.(Ag.)	Soil Fertility	15600-39100 (AGP 6000)	19810+6000	23.10.2009	Permanent	Other
Kandhamal	Subject Matter Specialist2	Mrs Anupama Samal	Food and Nutrition	M. Sc. (Home Sc.)	Food Science and Nutrition	15600-39100 (AGP 6000)	16920+6000	01.02.2014	Permanent	SC
Kandhamal	Subject Matter Specialist3	-	-	-	-	-	-	-	-	-
Kandhamal	Subject Matter Specialist4	-	-	-	-	-	-	-	-	-
Kandhamal	Subject Matter Specialist5	-	-	-	-	-	-	-	-	-
Kandhamal	Subject Matter Specialist6	-	-	-	-	-	-	-	-	-
Kandhamal	Programme Assistant	-	-	-	-	-	-	-	-	-
Kandhamal	Farm Manager	-	-	-	-	-	-	-	-	-
Kandhamal	Computer Programmer	Raghunath Soren	Computer	B. Sc (IT)	-	9300-34800 (GP 4200)	9300+4200	16.06.2015	Permanent	ST
Kandhamal	Accountant / superintendent	Gopabandhu Pradhan	--	Matriculation pass	--	9300-34800 (GP 4200)	14420+4600	28.10.2013	Permanent	ST
Kandhamal	Stenographer	Pabitra Mohan Pradhan	-	B.A	--	5200-20200 (GP-2400)	5200+2400	29.07.2015	Permanent	ST
Kandhamal	Driver	Maheswar Pradhan	--	10 th Pass	--	5200-20200 (GP 1900)	5640+1900	13.02.2014	Permanent	Other
Kandhamal	Driver	Gopal Pradhan	-	9 th	-	5200-20200 (GP 1900)	5200+1900	20.07.2015	Permanent	ST
Kandhamal	Supporting staff	Aparti Chhatoi	--	7 th pass	--	4440-7440 (GP 1300)	5580+1300	28.07.2008	Permanent	Other
Kandhamal	Supporting staff	Arjuni Ch. Swain	--	11 th pass	--	4440-7440 (GP 1300)	5580+1300	02.08.2008	Permanent	Other

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

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Kandhamal	North-Eastern Ghat Zone	12	153	732000	65.12	505000	90979	0.428 ha

A. GEOGRAPHICAL AREA OF KANDHAMAL

Total Area : 802,000 ha
Longitude : 83° 30' to 84° 35' E

Latitude		: 19° 34' to 20° 34' N Land Area (000')ha							
Sl.No	Forest Area	Misc. tree & Groves	Permanent Pasture	Culturabl e waste	Non agricultural use	Barren & Un culturable land	Current fallow	Other fallow	Sown Area
1	571	34	10	14	9	30	30	06	98

B. CENSUS (2011) OF KANDHAMAL

Sl. No	Male(000')	Female(000')	Total	Population Density/Km ²	Population Decadal Growth	Literacy rate(%)
1	359	373	732	91	12.92	65.12

C. AREA , PRODUCTION AND PRODUCTIVITY OF MAJOR CROPS IN THE KANDHAMAL DISTRICT

Sl. No	Crop	A-Area in ('000ha)	P-Production in ('000 Mts)	Y-Yield rate in kg/ha
1	Rice	44.14	108.03	2447
2	Maize	17.16	29.28	1706
3	Blackgram	4.99	1.21	242
4	Arhar	5.12	4.92	961
5	Field Pea	0.49	0.31	633
6	Groundnut	1.40	2.11	1507
7	Niger	10.27	3.20	312
8	Mustard	14.91	4.55	305
9	Turmeric	13.92	135.16	9710
10	Ginger	3.02	31.79	10526
11	Kulthi	13.91	4.98	358

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(Km)	Population	Number of farmers (having land in the village)
Kandhamal	Burbinaju	2012-13	Tikabali	21	552	125
Kandhamal	Kalanaju	2012-13	G.Udayagiri	22	295	35
Kandhamal	Kelemaha	2014-15	K.Nuagaon	29	225	52
Kandhamal	Gamuli	2015-16	G.Udayagiri	10	245	56
Kandhamal	Gunjigaon	2015-16	K. Nuagaon	60	450	70

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

KVK Name	THRUST AREA
Kandhamal	Dry land farming
Kandhamal	Crop substitution & cropping system
Kandhamal	Weed management
Kandhamal	Organic farming
Kandhamal	Soil health and fertility management
Kandhamal	Soil and water conservation
Kandhamal	Pest and disease management
Kandhamal	Bee-keeping improvement.
Kandhamal	Fruit and vegetable cultivation
Kandhamal	Spice crop cultivation
Kandhamal	Low cost production technique
Kandhamal	Process & value addition
Kandhamal	Safe storage
Kandhamal	Non land enterprises
Kandhamal	Backyard poultry and animal production
Kandhamal	Marketing awareness
Kandhamal	Agro forestry development
Kandhamal	Farm mechanization

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

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
Kandhamal	Sloppy and uneven topography	Socio resource Map ,Transact work & secondary statistical data	Village-Bandaguda,Magariguda,Kalanaju, Kelemaha Block-K.Nuagaon,G.Udayagiri,Raikia
Kandhamal	Soil degradation	Transact map & Secondary information.	Village-Bandaguda,Magariguda,Burbinaju,Kelemaha Block-K.Nuagaon,G.Udayagiri,Raikia,Tikabali
Kandhamal	Acidic nature of soil	Soil sample analysis & secondary data	Village-Bandaguda,Magariguda, Kelemaha Block-K.Nuagaon,G.Udayagiri,Raikia,Tikabali
Kandhamal	Low Percentage of irrigation	Secondary source & village survey	Village-Magarguda,Bandaguda,Burbinaju, Kelemaha Block-,G.Udayagiri,Raikia,Tikabali
Kandhamal	Mono cropping in hilly terrain	Village survey & Group meetings with villagers	Village-, Magarguda,Kambrikiya,Bandaguda,Burbinaju Kelemaha,Block-G.Udayagiri,Raikia,Tikabali
Kandhamal	Small, Marginal and Landless Farmers	PRA survey & district statistical report	Village-Bandaguda, Magariguda,Kalanaju, Kelemaha Block-K.Nuagaon,G.Udayagiri,Raikia,Tikabali,Baliguda
Kandhamal	Stray Cattle menace	Village survey & group discussion	Village-Bandaguda, Magariguda,,Penala,Braneguda, KelemahaBlock-K.Nuagaon,G.Udayagiri,Raikia,Tikabali
Kandhamal	Pest and disease incidence in field crop and storage	Problem prioritization through PRA & Root cause analysis	Village-Bandaguda,Magariguda,,Penala,Braneguda, KelemahaBlock-K.Nuagaon,G.Udayagiri,Raikia,Tikabali
Kandhamal	Poverty, Illiteracy and poor health of Farmers	Problem cause analysis & group discussion.	Village-Bandaguda,Magariguda,,Penala,Braneguda Kelemaha Block-K.Nuagaon,G.Udayagiri,Raikia,Tikabali
Kandhamal	Prevalence of diseases in Livestock animals	Feedback from farmers & Village survey	Village-BandagudaMagariguda,Kambrikiya,Penala,Braneguda Block-K.Nuagaon,G.Udayagiri,Raikia,Tikabali
Kandhamal	Distress sale of farm produce (Perishable vegetables)	Market research & price of commodities in local market	Village-Magarguda,Katadaganda,Penala,Brainguda, Kelemaha,Block-K.Nuagaon,G.Udayagiri,Raikia,Tikabali
Kandhamal	Lack of improved varieties of fruits and vegetables	Focused group discussion with vegetable growers	Village:Bandaguda,Magarguda,Katadaganda,Penala,Braneguda Block-K.Nuagaon,G.Udayagiri,Raikia,Tikabali
Kandhamal	Drudgery in farm operations	PRA & root cause analysis & time analysis of farm women	Village:Bandaguda,Baibali,Magariguda,Kalanaju,Penala,Braneguda,Gamuli, Gunjigaon Block-K.Nuagaon,G.Udayagiri,Raikia,Tikabali
Kandhamal	Weed menace in upland crops	Problem cause analysis & PRA	Village:Bandaguda,Baibali,Magarguda,Kalanaju,Penala,Braneguda Block-K.Nuagaon,G.Udayagiri,Raikia,Tikabali

2. On Farm Testing

Note-

* Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.

*Crop name should be spelled correct and standard English name should be used i.e Chick pea in place of gram/chana , Paddy in place of Rice/chawal , brinjal in place of egg plant/bhata/baigan etc.

*Don't press enter key to navigate among column use arrow or tab key

*don't add space before or after statement within the table cell

2.1 Information about OFT

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situations	No. of trials	Results (q/ha)				Net Returns (Rs./ha)				Recommendations
										FP (T ₁)	RP (T ₂)	T ₃	T ₄	FP (T ₁)	RP (T ₂)	T ₃	T ₄	
Kandhamal	2016	Kharif	Poor yield due to imbalance dose of fertilizer	Assessment of Integrated Nutrient Management in Groundnut	Assessment	Integrated Nutrient Management	Integrated Nutrient Management	Rainfed - Upland	05	12.9	13.9	14.8	17.7	17020	19620	22240	31460	Application of FYM @ 2 ton/ha +PMS @ 500 kg/ha+boron as solubor @ 10 kg/ha+ soil test based fertilizer application increased the groundnut pod yield by 37.2 % over farmers practice

Kandhamal	2016	Kharif	Poor yield in Maize due to soil acidity and improper nutrient management.	Assessment of Acid soil management in Maize	Assessment	Soil health and fertility management	Soil health and fertility management	Rainfed - Upland	07	40.1.5	47.8	55.8	-	27945	36910	47110	-	Application of FYM@2 ton/ha+lime @0.2LR+ soil test based fertilizer application increased the maize yield by 39.2 % over farmers practice
Kandhamal	2016	Kharif	Low yield due to imbalanced nutrition and limited use of organic inputs	Assessment of Organic sources of nutrients in Turmeric	Assessment	Integrated Nutrient Management	Integrated Nutrient Management	Rain fed-Upland	07	92.5	107.8	130.7	-	71775	91690	118085	-	Application of FYM @ 10 ton/ha+ mulching with dry leaves @ 12.5 ton/ha+ biofertilizer+neem cake @ 5 q/ha increased the turmeric yield by 41.3 % over farmers practice
Kandhamal	2016	Kharif & Rabi	Low germination rate and heavy damage of seedlings due to	Assessment of seedling raising	Assessment	Low cost production technology	Enterprise	Upland-Rainfed - Irrigated-Vegeta	13	350 (Nos/m ²)	530 (Nos/m ²)	--	-	4480 (Rs/unit/year)	21056 (Rs/unit/year)	-	-	Nursery raised in low cost poly tunnel structure increases the healthy

			heavy rain and low temperature during winter	in low cost poly tunnel				ble										seedling production by 70.9% over farmers practice	
Kandhamal	2016-17	Rabi	Low yield due to imbalance use of fertilizers and soil acidity	Assessment of integrated nutrient management in Garden pea	Assessment	Integrated nutrient management	Integrated nutrient management	Irrigated-Medium land	07	74.5	88.6	95.1	103.9	84850	106920	117070	130	130	Application of FYM @ 5ton/ha+lime @ 0.2LR+S @ 20 kg/ha+soil test based fertilizer application increased the pod yield of garden pea by 39.5 over farmers practice
Kandhamal	2016-17	Rabi	Low production of P. sajar caju during low temperature from the month of November to February at Kandhamal district , underutilization of farm wastage	Assessment of Oyster mushroom of different species in Kandhamal situation	Assessment	Varietal Evaluation	Enterprise	Rabi-Kandhamal (November to February)- Homestead	5	1.14 (Kg/bag)	1.56 (Kg/bag)	1.55 (Kg/bag)	1.40 (Kg/bag)	56.2 (Rs/bag)	89.8 (Rs/bag)	89.0 (Rs/bag)	77.0 (Rs/bag)	77.0 (Rs/bag)	Cultivation of Oyster mushroom species P.eryngii & P.ostreatus during November to February in Kandhamal increased the yield by 36.8 % & 35.96 % respectively over farmers practice, P. enyngii have the good results in all the parameter then others.

Kandhamal	2016-17	Rabi	Manual transplantation of paddy is tedious work and more labour requirement during intercultural practices in upland situation	Assessment of bullock drawn ridge type pregerminated paddy seeder for Kandhamal upland situation	Assessment	Low cost production technology	Enterprise	Irrigated - Upland	07	43 mandays/ha	46.5 mandays/ha	3.6 days in bullock drawn seeder	-	-	-	-	-	Use of bullock drawn pregerminated paddy seeder reduced the labour cost 91 % as well as save the time 91.6 % over traditional practice, but proper puddling of the field is must and observation of the field after sowing the pregerminated seed from the birds till raising of seedlings is required.
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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	FP (T ₁)	RP (T ₂)	T ₃	T ₄	FP (T ₁)	RP (T ₂)	T ₃	T ₄	FP (T ₁)	RP (T ₂)	T ₃	T ₄	FP (T ₁)	RP(T ₂)	T ₃	T ₄	FP (T ₁)	RP (T ₂)	T ₃	T ₄
Kandhamal	Assessment of Integrated Nutrient Management in Groundnut	No. of pods/plant	13.4	16.1	18.1	19.6	32000	33200	34000	35800	49020	52820	56240	67260	17020	19620	22240	31460	1.5	1.6	1.7	1.9
Kandhama	Assessment of Acid soil management in Maize	Cob length (Cm)	14.2	17.1	18.9	-	30200	32400	33800	-	58145	69310	80910	-	27945	36910	47110	-	1.9	2.1	2.4	--
Kandhama	Assessment of Organic sources of nutrients in Turmeric	Single Rhizome weight/plant (gm)	152.7	184.3	218.9	-	71600	75400	84500	-	143375	167090	202585	-	71775	91690	118085	-	2.0	2.2	2.4	-

Kandh ama	Assesment of seedling raising in low cost polytunnel	No of healthy seedlings (nos/m ²) Germination rate(Percentage) in Rabi Germination rate(Percentage) in Kharif	350 48.2 39.0	720 92.3 89.0	-	-	11200	11200	-	-	15680	32256	-	-	4480	21056	-	-	1.40	2.88	-	-
Kandh amal	Assesment of integrated nutrient management in Garden pea	No. of pods/plant	21.7	26.9	29.7	31.5	41800	43700	44600	46500	126650	150620	161670	176630	84850	106920	117070	130130	3.0	3.4	3.6	3.8
Kandh amal	Assesment of Oyster mushroom of different species in Kandh amal situation	Days to colonization in bag(days) Pinhead appearance(days)	17 24	14 20	15 21	15 22	35 (Rs/bag)	35 (Rs/bag)	35 (Rs/bag)	35 (Rs/bag)	91.2 (Rs/bag)	124.8 (Rs/bag)	124 (Rs/bag)	112 (Rs/bag)	56.2 (Rs/bag)	89.8 (Rs/bag)	89.0 (Rs/bag)	77.0 (Rs/bag)	2.6	3.6	3.5	3.2

Kandhamal	Assessment of bullock drawn ridge type pregerminated paddy seeder for Kandhamal upland situation	Number of labour required (mandays/ha)	43	46.5	3.6 days	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			Field Capacity (ha/hr)	0.003	0.0027	0.07																	
			Labour cost for transplantation/sowing (Rs/ha)	8600	9300	720																	

2.3 Information about Home Science OFT:

KVK Name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/Refinement)	Thematic Area	Details of Technology Selected for Assessment	Characteristics of Technology / Variety / Product / Enterprise	Farming / Enterprise Situation	No. of trials	Recommendations
Kandhamal											

2.4 Economic Performance Home Science OFT:

KVK name	OFT Title	Performance Indicator / Parameter																					
		Output m ² /h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input		Incremental income		Yield(Kg/ha)		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Kandhamal																							

2.5 Feedback from KVK to Research System

Name of KVK	Feedback

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
Kandhamal	Paddy	Varietal Evaluation	Scented rice –Nuadhusera, suitable for medium and low land, yield potential-30-35 q/ha, duration 150-155 days, grain type –short medium, HRR 67 %, spacing 20x15cm, soil test based fertilizer application and need based pest and disease management.	FLD, Training, Field days, group discussion, CD shows	15	175	55
Kandhamal	Maize & cowpea	Cropping system (intercropping)	Inter cropping of maize with cowpea in 2:2 row ratio for fodder, spacing 30 cm apart line for both the crops, recommended dose of fertilizer as per soil test value	FLD, Training, Field days, group discussion, CD shows	10	85	15
Kandhamal	Runner bean (Under TSP)	Integrated nutrient management & Integrated pest management	Variety – Raikia Bean, Seed rate – 40 kg/ha, FYM 5 t/ha , seed treatment with vitavax power @ 2 gm /kg seed, application of biofertilizers @ 12 kg/ha Azotobacter+Azospirillum+PSB: 4+4+4= 12 kg/ha), Soil application of boron @ 1 kg/ha, application of 75 % of recommended dose of N:P ₂ O ₅ :K ₂ O as per soil test results and need based application of plant protection chemicals.	FLD, Training, Field days, group discussion, CD shows	08	65	22
Kandhamal	Sweet potato	Varietal Evaluation	Ridge method of planting, spacing at 60x20cm, soil test based fertilizer application, ridge making at 45 days after planting, White flesh, Red skin, Duration -110-120 days, Tolerance to sweet potato weevil	FLD, Training, Field days, group discussion, CD shows	25	230	65
Kandhamal	Maize	Integrated nutrient management	Lime as PMS @ 0.2 LR & FYM 2 tons per hectare applied at the time of final ploughing. One third of N, full dose of P, K & S @ 30 kg /ha applied at the time of sowing & rest two third of N applied in two equal splits at 21 & 45 DAS. The nutrients NPK is applied as per the soil test results.	FLD, Training, Field days, group discussion, CD shows	11	86	14

Kandhamal	Brinjal	Integrated nutrient management	Biofertilizers like <i>Azotobacter</i> , <i>Azospirillum</i> and <i>PSB</i> (1:1:1) @ 3+3+3 = 9 kg/ha mixed with prelimed (5%) FYM (1:25) under shade at 30% moisture for 7 days and applied at the time of planting with application of recommended dose of NPK as per soil test result.	FLD, Training, Field days, group discussion, CD shows	07	72	18
Kandhamal	Cauliflower (Under TSP)	Integrated nutrient management & Integrated pest management	Hybrid cauliflower variety, Seed rate – 0.3 kg/ha, FYM 5 t/ha, spacing (60 x 45) cm, seed treatment with vitavax power @ 2 gm/kg seed, application of biofertilizers @ 12 kg/ha (Azotobacter+Azospirillum+PSB: 4+4+4= 12 kg/ha), twice foliar spray of boron 20% @ 0.3 % at 30 DAT and 45 DAP, application of 75 % of recommended dose of N:P ₂ O ₅ :K ₂ O as per soil test results and need based application of plant protection chemicals.	FLD, Training, Field days, group discussion, CD shows	39	235	52
Kandhamal	Niger (Under Oil seed & Pulse)	Integrated weed management	Soil test based NPK fertilizer application, pre emergence application of weedicide pendimethalin @ 1.5 kg a.i./ ha, hand weeding at 30DAS with need based application of plant protection chemicals	FLD, Training, Field days, group discussion, CD shows	98	702	229
Kandhamal	Rice	Integrated pest management	Application of Fipronil 0.3G @ 2.5 kg in the nursery area for 1 ha. 7 to 10 days before transplanting, Clipping of leaf tip, Foliar spraying of Indoxacarb 14.5 SC @ 1ml/lit at 30 and 60 DAT alternate with neem oil @ 5 ml/lit and installation of pheromone trap @ 20/ha.	FLD, Training, Field days, group discussion, CD shows	30	360	72
Kandhamal	Brinjal	Integrated pest management	Hand clipping & destruction of infected shoots & fruits, Spraying of Spinosad 45% SC @ 160 ml/ha 2-3 times at 10 days interval alternate with Neem oil @ 5 ml/lit and installation of pheromone trap @ 20/ha.	FLD, Training, Field days, group discussion, CD shows	24	552	165
Kandhamal	Vegetable	Household food security	Developing crop schedule on rotation basis, layout of kitchen garden with crop management, Growing of high yielding variety of vegetable	FLD, Training, Field days, group discussion, CD shows	8	58	12

Kandhamal	Oat	Varietal Evaluation	Cultivation of oat as fodder crop, spacing 25 cm apart line RDF as per soil test value, first cutting at 50-55 days after sowing and 2nd cutting at dough stage	FLD, Training, Field days, group discussion, CD shows	6	46	17
Kandhamal	Tomato	Varietal Evaluation	Planting on ridges, spacing 60x45 cm with soil test based fertilizer application. determinant growth habit, fruit round shaped, medium sized, deep red coloured, good keeping quality, pulpy, cluster bearing. Tolerant to bacterial wilt	FLD, Training, Field days, group discussion, CD shows	21	208	32
Kandhamal	Capsicum	Varietal Evaluation	Capsicum var.-California wonder, Planting on ridges, spacing 60x45cm, plants are upright, fruits are fine flavored with 3-4 distinct lobes, smooth, thick flesh, deep green, fast picking in 90-100 days after planting	FLD, Training, Field days, group discussion, CD shows	46	235	35
Kandhamal	Mustard	Integrated Nutrient Management	FYM @ 2 t/ha applied in furrows and fertilizer NPK applied as per soil test based with sulphur @ 40 kg/ha as gypsum at the time of sowing	FLD, Training, Field days, group discussion, CD shows	42	252	56
Kandhamal	Potato	Integrated nutrient management	Application of 25 % recommended dose of nitrogen through FYM and 75% recommended dose of NPK fertilizer through chemical fertilizer as per soil test based	FLD, Training, Field days, group discussion, CD shows	96	1344	170
Kandhamal	Field pea (Under Oil seed & Pulse)	Integrated nutrient management	Use of improved variety Rachana, seed rate 50 kg/ha, Application of FYM @ 5 t/ha, Spacing 30x10cm, seed treatment with vitavax power @ 2.5gm per kg of seed, soil test based fertilizer application and need based application of plant protection chemicals	FLD, Training, Field days, group discussion, CD shows	82	1230	304
Kandhamal	Mustard (Under Oil seed & Pulse)	Integrated nutrient management	Use of improved variety Parvati, seed rate 10 kg/ha, seed treatment with vitavax power @ 2.5gm per kg, two spraying of imidachloprid @ 3ml/10 liter of water alternate with Neem oil @ 5 ml per liter with soil test based fertilizer application	FLD, Training, Field days, group discussion, CD shows	79	1106	332
Kandhamal	Cabbage	Integrated pest management	Foliar spraying of Emamectin Benzoate 5%SG @200 gm/ha 2 to 3 times at 10 days interval alternate with BT @ 2gm/lit and installation of Pheromone trap @ 20/ha.	FLD, Training, Field days, group discussion, CD shows	36	576	154

Kandhamal	Garden pea	Integrated disease management	Seed treatment with vitavax power @ 2.5 gm /kg, Foliar spraying of Tridemorph 80%EC @250ml/ha twice at 10 days interval immediately after the disease symptoms appear on leaves.	FLD, Training, Field days, group discussion, CD shows	24	456	94
Kandhamal	Poultry (Under TSP)	Poultry Management	21 days old Banaraja chicks to be distributed to the beneficiaries after proper vaccination	FLD, Training, Field days, group discussion, CD shows	56	1567	255000 nos.
Kandhamal	Oyster Mushroom (Under TSP)	Income generating activity	Scientific method of Oyster mushroom cultivation in paddy straw by Farm women SHGs	FLD, Training, Field days, group discussion, CD shows	78	456	5560 Nos. of bed

Note-

*** Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.**

***Crop name should be spelled correct and standard English name should be i.e Chick pea in place of gram, Paddy in place of Rice , brinjal in place of egg plant etc.**

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3.2 Details of FLDs implemented

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/Enterprise	Name of Variety/Technology/Enterprises	Crop-Area (ha) / Enterprise No.	Results (q/ha)		% change	No. of farmers				
								FP (T1)	RP (T2)		SC	ST	Others	General	Total
Kandhamal	2016	Kharif	Micronutrient deficiency and its management	Application of well decomposed FYM @ 5 t/ha, application of fertilizer NPK as per soil test value and foliar spray of borax @ 0.25 % twice at 10 days interval after 30 days after planting	Tomato	Chiranjeev	1.0	290.6	354.9	22.1		5			5
Kandhamal	2016	Kharif	Nutrient Management	Application of N-P ₂ O ₅ -K ₂ O as per soil test result and ZnSO ₄ @ 25 kg/ha as basal application	Rice	Ajaya	1.0	45.1	57.4	27.3		5			5
Kandhamal	2016	Kharif	Varietal evaluation, IPM and INM	Seed rate 25 kg/ha, Variety-PU-35, line sowing, seed inoculation with Rhizobium @20gm/kg seed, soil test based fertilizer application, need based application of Plant protection chemicals	Black gram	PU-35 (CFLD on pulses)	30.0	3.9	7.2	84.6		116			116
Kandhamal	2016	Kharif	Drudgery Reduction	Decortication of Mahua seed through Mahua seed decorticator	Farm implement	Mahua seed decorticator	13 nos	Output 1.69 kg/hr	Output 8.90 kg/hr	426.6	-	13	-	-	13
Kandhamal	2016-17	Kharif & Rabi	Income Generation activities	21 days old Banaraja chicks to be distributed to the beneficiaries after proper vaccination	Enterprise	Banaraja poultry (FLD under TSP)	2000 nos of chick	Adult body weight 0.8 kg/bird/5 months	Adult body weight 3.6 kg/bird/5 months	350	-	200	-	-	200

Kandhamal	2016-17	Rabi	Integrated Nutrient Management	Application of N-P ₂ O ₅ -K ₂ O as per soil test value, application of FYM @ 2 t/ha, use of biofertilizers (bioinoculants like <i>Azotobacter</i> , <i>Azospirillum</i> and PSB in 1:1:1 each @ 4 kg/ha, inoculated in vermicompost in 1: 25 ratio, incubated for 7 days at 30 % moisture, kept under shed) at the time of sowing and application of 40 kg S /ha as basal.	Mustard	Anuradha	1.0	7.2	9.8	36.1	05		05
Kandhamal	2016-17	Rabi	Integrated Nutrient Management	Application of 25 % recommended dose of nitrogen through FYM and 75% recommended dose of NPK fertilizer through chemical fertilizer. The NPK applied is as per soil test result.	Potato	Kufri Jyoti	1.0	180.3	223.8	24.1	5		5
Kandhamal	2016-17	Rabi	Integrated Nutrient Management and Varietal evaluation	Use of improved variety M-27, seed rate 10 kg/ha, seed treatment with vitavax power @ 2.5gm per kg, two spraying of imidachloprid @ 3ml/10 liter of water alternate with Neem oil @ 5 ml per liter with soil test based fertilizer application	Toria	M-27 (CFLD on Oil seed)	30	4.5	7.9	76.5	115		115
Kandhamal	2016-17	Rabi	Integrated Nutrient Management and Varietal evaluation	Use of improved variety Vikash, seed rate 50 kg/ha, line sowing, seed inoculation with <i>Rhizobium</i> @ 20g/kg seed, application of boron @ 1kg/ha, soil test based fertilizer application and need based plant protection measures	Field Pea	Vikash (CFLD on Pulse)	10	15.6	22.7	45.5	55		55

Kandhamal	2016-17	Rabi	Integrated Nutrient Management and Varietal evaluation	Use of improved variety IPM 2-14, seed rate 20 kg/ha, line sowing, seed inoculation with <i>Rhizobium</i> @ 20g/kg seed, application of boron @ 1kg/ha, soil test based fertilizer application and need based plant protection measures	Green gram	IPM 2-14 (CFLD on pulse)	30	4.3	6.6	53.5	75			75
Kandhamal	2016-17	Rabi	Package and practice of crop production	FYM 5 t/ha, Seed rate 10 kg/ha, spacing 15x10 cm, seed treatment with vitavax power @ 2.5 gm /kg seed, application of biofertilizers Azotobacter, Azospirillum and PSB @ 4 kg each/hectare at the time of planting of seedlings, application of 75 % of recommended dose of N:P ₂ O ₅ :K ₂ O as per soil test results and need based application of plant protection chemicals.	Onion	Onion (FLD under TSP)	5.0	164.2	309.5	88.5	25			25
Kandhamal	2016-17	Rabi	Package and practice of crop production	Hybrid cabbage variety Hare Krishna, seed rate – 0.3 kg/ha, FYM 5 t/ha , spacing (60 x 45) cm, seed treatment with vitavax power @ 2 gm /kg seed, application of biofertilizers @ 12 kg/ha (Azotobacter + Azospirillum+PSB: 4+4+4= 12 kg/ha), soil application of boron @ 1 kg/ha at the time of sowing, application of 75 % of recommended dose of N:P ₂ O ₅ :K ₂ O as per soil test results and need based application of plant protection chemicals.	Cabbage	Cabbage (FLD under TSP)	5.0	189.6	330.9	74.5	25			25

Kandhamal	2016-17	Rabi	Package and practice of crop production	FYM 5 t/ha, Seed rate 80 kg/ha, var. Azad P-3, seed treatment with Rhizobium 20g/kg of Seed, Spacing 30x10cm, application of biofertilizers @ 12 kg/ha (Azotobacter + Azospirillum+PSB: 4+4+4= 12 kg/ha), application of boron @ 1kg/ha at the time of sowing, application of 75 % of recommended dose of N:P ₂ O ₅ :K ₂ O as per soil test results and need based application of plant protection chemicals.	Garden Par	Garden Pea (FLD under TSP)	5.0	70.3	116.2	65.3	25			25
Kandhamal	2016-17	Rabi	Income generating activity	Oyster mushroom cultivation in paddy straw, Fruiting starts from 25 days old bag, yield per bag-1.5 to 2 kg/ bag	Oyster mushroom	P. sajorcaju (FLD under TSP)	1200 nos of beg	0.92 kg/bag	1.59 kg/bag	72.8	111			10 SHGs (11 nos)
Kandhamal	2016-17	Rabi	Small Scale Technology	PUSA zero energy cool chamber is prepared by using bricks, floor size of the chamber is 165 cm x 115 cm, it's a double wall chamber to a height of 67.5 cm leaving a capacity of 7.5 cm between the wall which has to fill by fine and wet river sand, top of the chamber has to be cover by a bamboo frame made with paddy straw or dry grass, chamber is protect from direct sun or rain by making a thatch over it.	PUSA zero energy cool chamber	PUSA zero energy cool chamber	5 units	-	-		05			05

3.3 Economic Impact of FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T1)	RP (T2)	FP (T1)	RP (T2)	FP (T1)	RP (T2)	FP (T1)	RP (T2)	FP (T1)	RP (T2)
Kandhamal	Application of well decomposed FYM @ 5 t/ha, application of fertilizer NPK as per soil test value and foliar spray of borax @ 0.25 % twice at 10 days interval after 30 days after planting	Tomato	Single fruit weight (gm)	60.4	74.8	65000	67200	145300	177450	80300	110250	2.2	2.6
Kandhamal	Application of N-P ₂ O ₅ -K ₂ O as per soil test result and ZnSO ₄ @ 25 kg/ha as basal application	Rice	No. of tillers/hill	22.6	33.8	30100	34300	66297	84378	36197	50078	2.2	2.5
Kandhamal	Seed rate 25 kg/ha, Variety- PU-35, line sowing, seed inoculation with Rhizobium @20gm/kg seed, soil test based fertilizer application, need based application of Plant protection chemicals	Black gram (CFLD Oil on pulses)	No. of pods/plant	17.7	33.9	10250	14200	19500	36000	9250	21800	1.9	2.5
Kandhamal	Decortication of Mahua seed through Mahua seed decorticator	Mahua seed decorticator	-	-	-	-	-	-	-	-	-	-	-
Kandhamal	21 days old Banaraja chicks to be distributed to the beneficiaries after proper vaccination	Banaraja poultry (FLD under TSP)	Egg laying(No. /bird/year)	45	159								
			Body weight (hen) at 1 st year (kg/bird)	1.75	4.45	185	390	935	2411	750	2026	5.1	6.2
			Body weight rooster at 1 st year (kg/bird)	2.1	5.1	185	390	840	2040	655	1650	4.5	5.2

Kandhamal	Application of N-P ₂ O ₅ -K ₂ O as per soil test value, application of FYM @ 2 t/ha, use of biofertilizers (bioinoculants like <i>Azotobacter</i> , <i>Azospirillum</i> and PSB in 1:1:1 each @ 4 kg/ha, inoculated in vermicompost in 1:25 ratio, incubated for 7 days at 30 % moisture, kept under shed) at the time of sowing and application of 25 kg S /ha as basal.	Mustard	No. of siliqua/plant	202.4	276.1	13200	16000	23760	33340	10560	16340	1.8	2.0
Kandhamal	Application of 25 % recommended dose of nitrogen through FYM and 75% recommended dose of NPK fertilizer through chemical fertilizer. The NPK applied is as per soil test result.	Potato	Single tuber wt(gm)	60.4	74.8	65000	67200	145300	177450	80300	110250	2.2	2.6
Kandhamal	Use of improved variety M-27, seed rate 10 kg/ha, seed treatment with vitavax power @ 2.5gm per kg, two spraying of imidachloprid @ 3ml/10 liter of water alternate with Neem oil @ 5 ml per liter with soil test based fertilizer application	Toria (CFLD on Oil seed)	No. of Siliqua/plant	139.7	272.6	9900	11350	14850	26070	4950	14720	1.5	2.3
Kandhamal	Use of improved variety Vikash, seed rate 50 kg/ha, line sowing, seed inoculation with <i>Rhizobium</i> @ 20g/kg seed, application of boron @ 1kg/ha, soil test based fertilizer application and need based plant protection measures	Field pea (CFLD on Pulses)	No. of pods/plant	20.1	27.8	21359	26200	56160	81720	34810	55520	2.6	3.1
Kandhamal	Use of improved variety IPM 2-14, seed rate 20 kg/ha, line sowing, seed inoculation with <i>Rhizobium</i> @ 20g/kg seed, application of boron @ 1kg/ha, soil test based fertilizer application and need based plant protection measures	Green gram (CFLD on Pulses)	No. of pods/plant	17.7	33.9	11800	14900	22360	34320	10560	19420	1.9	2.3

Kandhamal	FYM 5 t/ha, Seed rate 10 kg/ha, spacing 15x10 cm, seed treatment with vitavax power @ 2.5 gm /kg seed, application of biofertilizers Azotobacter, Azospirillum and PSB @ 4 kg each/heactare at the time of planting of seedlings, application of 75 % of recommended dose of N:P ₂ O ₅ :K ₂ O as per soil test results and need based application of plant protection chemicals.	Onion (FLD under TSP)	Single bulb wt(gm)	47.8	90.5	63000	77800	131360	247600	68360	169800	2.1	3.2
Kandhamal	Hybrid cabbage variety Hare Krishna , seed rate – 0.3 kg/ha, FYM 5 t/ha , spacing (60 x 45) cm, seed treatment with vitavax power @ 2 gm /kg seed, application of biofertilizers @ 12 kg/ha (Azotobacter + Azospirillum+PSB: 4+4+4= 12 kg/ha), soil application of boron @ 1 kg/ha at the time of sowing, application of 75 % of recommended dose of N:P ₂ O ₅ :K ₂ O as per soil test results and need based application of plant protection chemicals.	Cabbage (FLD under TSP)	Single head weight(kg)	0.76	1.32	43500	60600	94800	165450	51300	104850	2.2	2.7
Kandhamal	FYM 5 t/ha, Seed rate 80 kg/ha, var. Azad P-3, seed treatment with Rhizobium 20g/kg of Seed, Spacing 30x10cm, application of biofertilizers @ 12 kg/ha (Azotobacter + Azospirillum+PSB: 4+4+4= 12 kg/ha), application of boron @ 1kg/ha at the time of sowing, application of 75 % of recommended dose of N:P ₂ O ₅ :K ₂ O as per soil test results and need based application of plant protection chemicals.	Garden Pea (FLD under TSP)	No. of Pods/plant	20.8	32.9	43200	58700	119510	197540	76310	138840	2.8	3.4

Kandhamal	Oyster mushroom cultivation in paddy straw, Fruiting starts from 25 days old bag, yield per bag-1.5 to 2 kg/ bag	Oyster mushroom(P. sajorcaju) (FLD under TSP)	Days to colonization in bag Pinhead appearance(days)	18 24	14 19	28 (Rs/bag)	35 (Rs/bag)	73.6 (Rs/bag)	127.2 (Rs/bag)	45.6 (Rs/bag)	92.2 (Rs/bag)	3.39	3.63
Kandhamal	PUSA zero energy cool chamber is prepared by using bricks, floor size of the chamber is 165 cm x 115 cm, it's a double wall chamber to a height of 67.5 cm leaving a capacity of 7.5 cm between the wall which has to fill by fine and wet river sand, top of the chamber has to be cover by a bamboo frame made with paddy straw or dry grass, chamber is protect from direct sun or rain by making a thatch over it.	PUSA zero energy cool chamber Note: Shelf life and physiological loss in weight of the perishable vegetable and semi-perishable vegetable result are given in the table.	Temperature (C°) March-May Relative humidity(%) March-May Shelf life of Vegetables(Days) Physiological loss in weight(PLW)(%)	18 to 35 75to 20 1 to 7 50.98 to 16.25	22 to 26 90 to 85 3 to 12 11.5 to 4.5	-	-	-	-	-	-	-	-

3.4 Information about Home Science FLDs

KVK name	Year	Season	Thematic Area	Problem Identified	Technology to be Demonstrated as Solution to the Identified Problem	Crop/ Enterprise (In which crop Enterprise or Farming Activity)	Name of Variety/Technology/Entreprizes	Farming Situation	Proposed area (ha)	No. of Beneficiaries
Kandhamal	2016	Kharif	Drudgery Reduction	Manual decortication of mahua seed from pod cause high drudgery and injury on tip of the finger	Decortication of Mahua seed through Mahua seed decorticator	Farm implement	Mahua seed decorticator	Homestead	-	13

3.5 Economic Performance Home Science FLDs:

KVK name	OFT Title	Performance Indicator / Parameter																					
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/mi n		% reduction in drudger y		% increase in efficiency		Productio n per unit		Cost of input		Increment al income		Yield(Kg/ha)		Net Return		Savin g in Rs	BC rati o
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Kandhama 1	Decortication of Mahua seed through Mahua seed decorticator	1.69 (kg/hr)	8.90 (kg/hr)	11.63 2	9.08 8	12 8	11 2	-	85.1 7	-	426.6 2	-	-	-	-	-	-	-	-	-	-	-	-

3.6 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Kandhamal	Tomato	Field days	1	40	
Kandhamal		Farmers training	2	50	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Rice	Field days	1	20	
Kandhamal		Farmers training	1	25	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Mahua	Field days	1	20	
Kandhamal		Farmers training	1	25	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Poultry	Field days	1	20	
Kandhamal		Farmers training	2	25	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Mustard	Field days	1	20	
Kandhamal		Farmers training	1	-	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Tomato	Field days	1	-	
Kandhamal		Farmers training	1	25	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Black gram	Field days	1	-	
Kandhamal		Farmers training	1	25	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	

Kandhamal	Mustard	Field days	1	20	
Kandhamal		Farmers training	1	25	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Potato	Field days	1	20	
Kandhamal		Farmers training	1	25	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Oyster Mushroom	Field days	1	20	
Kandhamal		Farmers training	1	25	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Field pea	Field days	1	20	
Kandhamal		Farmers training	2	50	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Torla	Field days	1	20	
Kandhamal		Farmers training	1	25	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Green gram	Field days	1	20	
Kandhamal		Farmers training	1	25	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Onion	Field days	1	20	
Kandhamal		Farmers training	2	50	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Cabbage	Field days	1	20	
Kandhamal		Farmers training	1	25	
Kandhamal		Media coverage	-	-	

Kandhamal		Training for extension functionaries	-	-	
Kandhamal	Garden Pea	Field days	1	20	
Kandhamal		Farmers training	1	25	
Kandhamal		Media coverage	-	-	
Kandhamal		Training for extension functionaries	-	-	

3.7 Details of FLD on crop hybrids.

S. No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.
2	Kandhamal	Rice	Ajaya	NRRI	5	1

4. Feedback System

4.1. Feedback of the Farmers to KVK

Name of KVK	Feedback			
	Technology appropriations	Methodology used	Benefits of OFT/FLD	Future Adoption
Kandhamal	Application of well decomposed FYM @ 5 t/ha, application of fertilizer NPK as per soil test value and foliar spray of borax @ 0.25 % twice at 10 days interval after 30 days after planting	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice. Pest & disease incidence reduced in the scientific method of cultivation.farmers are able to know the newly developed technologies.	The farmers adopted the technology & framers of near by villages are convinced for future adoption
Kandhamal	Application of N-P ₂ O ₅ -K ₂ O as per soil test result and ZnSO ₄ @ 25 kg/ha as basal application	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice. Pest & disease incidence reduced in the scientific method of cultivation.farmers are able to know the newly developed technologies.	The farmers adopted the technology & framers of near by villages are convinced for future adoption
Kandhamal	Decortication of Mahuaseed through Mahua seed decorticator	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice..	The farmers adopted the technology & framers of near by villages are convinced for future adoption

Kandhamal	21 days old Banaraja chicks to be distributed to the beneficiaries after proper vaccination	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice.	The farmers adopted the technology & framers of near by villages are convinced for future adoption
Kandhamal	Use of variety M-27, seed rate 10 kg/ha, seed treatment with vitavax power @ 2.5gm per kg, two spraying of imidachloprid @ 3ml/10 liter of water alternate with Neem oil @ 5 ml per liter with soil test based fertilizer application	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice. Pest & disease incidence reduced in the scientific method of cultivation.farmers are able to know the newly developed technologies.	The farmers adopted the technology & framers of near by villages are convinced for future adoption
Kandhamal	Seed rate 25 kg/ha, Variety- PU-35, line sowing, seed inoculation with Rhizobium @20gm/kg seed, soil test based fertilizer application, need based application of Plant protection chemicals.	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice. Pest & disease incidence reduced in the scientific method of cultivation.farmers are able to know the newly developed technologies.	The farmers adopted the technology & framers of near by villages are convinced for future adoption
Kandhamal	Application of N-P ₂ O ₅ -K ₂ O as per soil test value, application of FYM @ 2 t/ha, use of biofertilizers (bioinoculants like <i>Azotobacter</i> , <i>Azospirillum</i> and PSB in 1:1:1 each @ 4 kg/ha, inoculated in vermicompost in 1: 25 ratio, incubated for 7 days at 30 % moisture, kept under shed) at the time of sowing and application of 25 kg S /ha as basal.	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice. Pest & disease incidence reduced in the scientific method of cultivation.farmers are able to know the newly developed technologies.	The farmers adopted the technology & framers of near by villages are convinced for future adoption
Kandhamal	Application of 25 % recommended dose of nitrogen through FYM and 75% recommended dose of NPK fertilizer through chemical fertilizer. The NPK applied is as per soil test result.	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice. Pest & disease incidence reduced in the scientific method of cultivation.farmers are able to know the newly developed technologies.	The farmers adopted the technology & framers of near by villages are convinced for future adoption
Kandhamal	Use of improved variety Vikash, seed rate 50 kg/ha, line sowing, seed inoculation with <i>Rhizobium</i> @ 20g/kg seed, application of boron @ 1kg/ha, soil test based fertilizer application and need based plant protection measures	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice. Pest & disease incidence reduced in the scientific method of cultivation.farmers are able to know the newly developed technologies.	The farmers adopted the technology & framers of near by villages are convinced for future adoption

Kandhamal	Use of improved variety IPM 2-14, seed rate 20 kg/ha, line sowing, seed inoculation with <i>Rhizobium</i> @ 20g/kg seed, application of boron @ 1kg/ha, soil test based fertilizer application and need based plant protection measures	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice. Pest & disease incidence reduced in the scientific method of cultivation.farmers are able to know the newly developed technologies.	The farmers adopted the technology & framers of near by villages are convinced for future adoption
Kandhamal	FYM 5 t/ha, Seed rate 10 kg/ha, spacing 15x10 cm, seed treatment with vitavax power @ 2.5 gm /kg seed, application of biofertilizers Azotobacter, Azospirillum and PSB @ 4 kg each/heactare at the time of planting of seedlings, application of 75 % of recommended dose of N:P ₂ O ₅ :K ₂ O as per soil test results and need based application of plant protection chemicals.	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice. Pest & disease incidence reduced in the scientific method of cultivation.farmers are able to know the newly developed technologies.	The farmers adopted the technology & framers of near by villages are convinced for future adoption
Kandhamal	Hybrid cabbage variety Hare Krishna, seed rate – 0.3 kg/ha, FYM 5 t/ha , spacing (60 x 45) cm, seed treatment with vitavax power @ 2 gm /kg seed, application of biofertilizers @ 12 kg/ha (Azotobacter + Azospirillum+PSB: 4+4+4= 12 kg/ha), soil application of boron @ 1 kg/ha at the time of sowing, application of 75 % of recommended dose of N:P ₂ O ₅ :K ₂ O as per soil test results and need based application of plant protection chemicals.	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice. Pest & disease incidence reduced in the scientific method of cultivation.farmers are able to know the newly developed technologies.	The farmers adopted the technology & framers of near by villages are convinced for future adoption
Kandhamal	FYM 5 t/ha, Seed rate 80 kg/ha, var. Azad P-3, seed treatment with Rhizobium 20g/kg of Seed, Spacing 30x10cm, application of biofertilizers @ 12 kg/ha (Azotobacter + Azospirillum+PSB: 4+4+4= 12 kg/ha), application of boron @ 1kg/ha at the time of sowing, application of 75 % of recommended dose of N:P ₂ O ₅ :K ₂ O as per soil test results and need based application of plant protection chemicals.	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice.	The farmers adopted the technology & framers of near by villages are convinced for future adoption
Kandhamal	Oyster mushroom cultivation in paddy straw, Fruiting starts from 25 days old bag, yield per bag-1.5 to 2 kg/ bag	Group discussion, Field day, farmer interaction.	Farmers get higher income than their own practice.	The farmers adopted the technology & framers of near by villages are convinced for future adoption

Kandhamal	PUSA zero energy cool chamber is prepared by using bricks, floor size of the chamber is 165 cm x 115 cm, it's a double wall chamber to a height of 67.5 cm leaving a capacity of 7.5 cm between the wall which has to fill by fine and wet river sand, top of the chamber has to be cover by a bamboo frame made with paddy straw or dry grass, chamber is protect from direct sun or rain by making a thatch over it.	Group discussion, farmer interaction.	Famers are keeping vegetable safely for a longer period then keeping in room temperature	The farmers adopted the technology & framers of near by villages are convinced for future adoption
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4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested

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
Kandhamal	Practicing farmers & farm women	Focused group discussion & Interaction	08.05.2016 ,Gamuli, Kelmaha,Burbinaju 16.05.2016 ,Penala, Gamuli, Beheragaon, Gotamaha 28.05.2016 ,Kalanaju, Katadaganda	350
Kandhamal	Farm women	Group discussion and interaction for identify the training need	05.06.2016 ,Burbinaju 16.06.2016,Lamungia 15.07.16,KVK ,Campus	650
Kandhamal	Rural Youth	Group discussion and interaction for identify the training need for small scale enterprise and entrepreneurship	12.09.16 ,KVK Campus	550

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)	Target for No. of participants	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16	
Kandhamal	FW	ONC	SFM	Nutrient management in organic turmeric cultivation	1	2	25	0	0	4	0	19	2	0	0
Kandhamal	FW	ONC	SFM	Nutrient management in maize	1	2	25	0	0	2	1	22	0	0	0
Kandhamal	FW	ONC	SFM	Integrated nutrient management for toria cultivation	1	2	25	0	0	4	2	19	0	0	0
Kandhamal	FW	ONC	SFM	Integrated nutrient management practices for garden pea cultivation	1	2	25	0	0	3	0	21	1	0	0
Kandhamal	FW	ONC	SFM	Integrated nutrient management practices for potato cultivation	1	2	25	0	0	3	0	22	0	0	0
Kandhamal	FW	ONC	CBD	Recent agricultural technologies and its profitability.	1	2	25	2	0	0	0	22	1	0	0
Kandhamal	FW	ONC	CBD	Different rural development programmes- Information network.	1	2	25	0	0	2	0	20	3	0	0
Kandhamal	FW	ONC	CBD	Use of mass media for information on improved agro techniques	1	1	25	0	0	0	0	23	1	1	0

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16	
Kandhamal	FW	ONC	CBD	Efficient marketing of agricultural produce & reduce post harvest losses	1	2	25	0	0	1	0	21	2	1	0
Kandhamal	FW	ONC	WOE	Scientific Method of Paddy Straw Mushroom Cultivation	1	2	25	0	0	0	20	0	1	0	4
Kandhamal	FW	ONC	WOE	Preparation technology of PUSA zero energy cool chamber and its importance	1	2	25	0	0	0	0	9	11	0	0
Kandhamal	FW	ONC	WOE	Scientific rearing method of backyard poultry	1	2	25	0	0	1	0	4	19	1	0
Kandhamal	FW	ONC	WOE	Scientific method of Oyster Mushroom cultivation	1	2	25	0	0	1	1	9	13	0	1
Kandhamal	FW	ONC	WOE	Women friendly small farm tools and its methods for operation	1	2	25	0	2	0	2	0	21	0	0
Kandhamal	FW	OFC	WOE	Techniques of layout, crop rotation and maintenance of household nutritional garden	1	2	25	0	0	0	8	0	15	0	2
Kandhamal	FW	OFF	SFM	Importance of soil & water testing for improving the soil health	1	1	25	0	0	4	0	19	2	0	0
Kandhamal	FW	OFC	SFM	Integrated nutrient management in groundnut	1	1	25	0	0	5	0	18	2	0	0
Kandhamal	FW	OFC	SFM	Nutrient management in hybrid rice	1	1	25	0	0	2	0	13	0	6	4

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16	
Kandhamal	FW	OFC	CBD	Source and procedures for purchasing of quality agricultural inputs	1	1	25	0	0	2	0	23	0	0	0
Kandhamal	FW	OFC	CBD	Efficient marketing of agril produce & reduce post harvest losses	1	1	25	0	0	0	0	24	1	0	0
Kandhamal	FW	OFC	CBD	Establishment and strengthening of farmers club	1	1	25	0	0	0	0	23	2	0	0
Kandhamal	FW	OFC	CBD	Management of SHGs/farmers club	1	1	25	0	0	3	0	20	1	1	0
Kandhamal	RY	ONC	RYH	Production technique for NADEP method of composting	1	2	25	0	0	3	1	20	1	0	0
Kandhamal	RY	ONC	RYH	Methodology for quality vermicompost production technique for promotion of organic farming	1	2	25	1	0	1	0	19	4	0	0
Kandhamal	RY	ONC	RYH	Farmer producer organization and its importance	1	2	25	0	0	5	0	17	3	0	0
Kandhamal	RY	ONC	RYH	Entrepreneurship development of farm youth (Agricultural based small scale industries)	1	1	25	0	0	1	0	14	0	0	0
Kandhamal	RY	ONC	RYH	Leadership development for SHG/farmers club	1	1	25	0	0	0	0	24	0	1	0
Kandhamal	IS	ONC	CBD	Training methods and management	1	1	15	3	0	7	0	4	0	1	0

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16	
Kandhamal	IS	ONC	WOE	Importance of valance food and nutrition in human diet	1	1	15	0	0	0	0	14	0	1	0

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

Name of KVK	Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)	Number of Beneficiaries							
					Gen		SC		ST		Others	
					M	F	M	F	M	F	M	F
Kandhamal	Soil Testing by soil test kit method	Enterprise	Soil and water testing	5	2	0	3	0	8	0	2	0
Kandhamal	Processing, value addition, packaging and marketing of fruits and vegetables	Crop	Value addition	5	0	0	0	1	0	14	0	0

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 else where
		Type of units	Number of units	Number of persons employed	
Kandhamal	Mushroom cultivation	Mushroom Spawn	43	25	7
Kandhamal	Vermicomposting	Vermin	19	22	13
Kandhamal	Poultry management	Banaraja poultry	21	23	16

Table 5.4. Sponsored Training Programmes

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

Table 5.5 Training Programmes for Panchayatiraj Institutions Office-bearers & members

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

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	
Kandhamal	Importance of soil & water testing for improving the soil health	25	22	22	--	-	-	-	1. Area expanded (ha)- 2. Out of 25 trainees, 22 farmers adopted 3. i.Change in knowledge(%)-90.9 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Nutrient management in organic turmeric cultivation	25	14	21	92.5	130.7	71775	118085	4. Area expanded (ha)- 113 5. Out of 25 trainees, 21 farmers adopted 6. i.Change in knowledge(%)-87.4 ii. change in production(%) 41.3 iii. Change in income(%) 64.5
Kandhamal	Nutrient management in maize	25	21	34	40.1	55.8	27945	47110	1. Area expanded (ha)-132 2. Out of 25 trainees, 20 farmers adopted 3. i.Change in knowledge(%)-61.9 ii. change in production(%)-39.2 iii. Change in income(%)-68.58
Kandhamal	Micronutrient spray solution preparation methodology and its application in vegetables	25	28	43	287.8	352.4	143900	176200	1. Area expanded (ha)-92 2. Out of 25 trainees, 19 farmers adopted 3. i.Change in knowledge(%)-53.6 ii. change in production(%)-22.4 iii. Change in income(%)-22.4
Kandhamal	Integrated nutrient management for toria cultivation	25	20	34	7.3	10.1	22630	31310	1. Area expanded (ha)-114 2. Out of 25 trainees, 20 farmers adopted 3. i.Change in knowledge(%)-70 ii. change in production(%)-38.4 iii. Change in income(%)-38.4
Kandhamal	Integrated nutrient management practices for garden pea cultivation	25	22	36	73.8	94.1	125460	176630	1. Area expanded(ha)-49 2. Out of 25 trainees, 19 farmers adopted 3. i.Change in knowledge(%)-63.6 ii. change in production(%)-40.8 iii. Change in income(%)-40.8
Kandhamal	Integrated nutrient management practices for potato cultivation	25	28	49	178.6	223.4	107160	134040	1. Area expanded(ha)-69 2. Out of 25 trainees, 18 farmers adopted 3. i.Change in knowledge(%)-75 ii. change in production(%)-25.1 iii. Change in income(%)-25.1

Kandhamal	Reclamation of acid soil for higher crop productivity	25	30	52	39.5	47.2	57275	68440	1. Area expanded(ha)-120 2. Out of 25 trainees, 21 farmers adopted 3. i.Change in knowledge(%)-75 ii. change in production(%)-25 iii. Change in income(%)-25
Kandhamal	Nutrient management in major fruit crops in Kandhamal district	25	21	39	-	-	-	-	1. Area expanded(ha)-45 2. Out of 25 trainees, 20 farmers adopted 3. i.Change in knowledge(%)-85.7 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Recent agricultural technologies and its profitability.	25	25	48	-	-	-	-	1. Area expanded(ha)- 2. Out of 25 trainees, 17 farmers adopted 3. i.Change in knowledge(%)-92 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Different rural development programmes- Information network.	25	30	50	-	-	-	--	1. Area expanded(ha)- 2. Out of 25 trainees, 21 farmers adopted 3. i.Change in knowledge(%)-66 4. ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Use of mass media for information on improved agro techniques	25	45	65	-	-	-	-	1. Area expanded(ha)- 2. Out of 25 trainees, 20 farmers adopted 3. i.Change in knowledge(%)-44 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Marketing strategies for rabi crops	25	35	55	-	-	-	-	1. Area expanded(ha)- 2. Out of 25 trainees, 17 farmers adopted 3. i.Change in knowledge(%)-66 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Scientific Method of Paddy Straw Mushroom Cultivation	25	15	30	-	-	-	-	4. Area expanded(ha)- 5. Out of 25 trainees, 10 farmers adopted 6. i.Change in knowledge(%)-100 ii. change in production(%)- iii. Change in income(%)-

Kandhamal	PUSA zero energy cool chamber and its importance	25	15	45	-	-	-	-	7. Area expanded(ha)- 8. Out of 25 trainees, 10 farmers adopted 9. i.Change in knowledge(%)-200 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Scientific rearing method of backyard poultry	25	25	45	-	-	450/bird	800/bird	1. Area expanded(ha)-45 village 2. Out of 25 trainees, 12 farmers adopted 3. i.Change in knowledge(%)-80 ii. change in production(%)- iii. Change in income(%)-77.7
Kandhamal	Scientific method of Oyster Mushroom cultivation	25	45	65	0.9 kg/bag	1.52 kg/bag	72kg/bag	160/bag	1.Area expanded:56 SHGs 2.Out of 25 trainees, 14 farmers adopted 3i.Change in knowledge(%)-66 ii. change in production(%)-68.8 iii. Change in income(%)-122
Kandhamal	Use of women friendly farm tools for drudgery reduction	25	45	75	-	-	-	-	1. Area expanded(ha)- 2. Out of 25 trainees, 22 farmers adopted 3. i.Change in knowledge(%)-67 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Integrated nutrient management in groundnut	25	24	43	12.6	17.4	46620	64380	1. Area expanded(ha)-92 2. Out of 25 trainees, 17 farmers adopted the technology. 3. (i) Knowledge: 79.2 (After-Before)/Before *100 (ii) Production: 38.1 (iii) Income: 38.1
Kandhamal	Nutrient management in hybrid rice	25	16	27	44.9	55.6	62860	77840	1. Area expanded(ha)-102 2. Out of 25 trainees, 14 farmers adopted the technology. 3. (i) Knowledge: 50 (After-Before)/Before *100 (ii) Production: 23.8 (iii) Income: 23.8

Kandhamal	Source and procedures for purchasing of quality agricultural inputs	25	67	83	90	150	99000	165000	<ol style="list-style-type: none"> 1. 35 ha 2. Out of 25 trainees, 11 farmers adopted the technology. 3. (i) Knowledge: 73.6.(After-Before)/Before *100 (ii) Production: (iii) Income::
Kandhamal	Efficient marketing of agril produce & reduce post harvest losses	25	14	27	-	-	-	-	<ol style="list-style-type: none"> 1. ha 2. Out of 25 trainees, 12 trainees adopted the technology. 3. (i) Knowledge: 92 4. (ii) Production: (iii) Income:
Kandhamal	Establishment and strengthening of farmers club	25	16	44	-	-	-	-	<ol style="list-style-type: none"> 1. Area expanded(ha)- 2. Out of 25 trainees, 17 farmers adopted 3. i.Change in knowledge(%)-175 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Management of SHGs/farmers club	25	31	53	-	-	-	-	<ol style="list-style-type: none"> 4. Area expanded(ha)- 5. Out of 25 trainees, 22 farmers adopted 6. i.Change in knowledge(%)-70 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Scientific Rearing Method of Backyard Poultry	25	29	56	-	-	Rs450/bird	Rs800/bird	<ol style="list-style-type: none"> 1.Area expanded-45 villages 2.Out of 25 trainees, 16 farmers adopted 3.i.Change in knowledge(%)-93.1 ii. change in production(%) ii. Change in income(%)-77.7
Kandhamal	Nutritional care for farm family	25	16	41	-	-	-	-	<ol style="list-style-type: none"> 1.Area expanded- 168 farm family adopted the technology 2.Out of 25 trainees, 23 farm women adopted 3.i.Change in knowledge(%)-156.2 ii. change in production(%)- iii. Change in income(%)-

Kandhamal	Methodology for quality vermin compost production technique	25	22	39	-	-	-	-	1. Area expanded(Villages)-21 2. Out of 25 trainees, 20 farmers adopted 3. i.Change in knowledge(%)-77.2 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Farmer producer organization and its importance	25	17	32	-	-	-	-	1. Area expanded(ha)- 2. Out of 25 trainees, 18 farmers adopted 3. i.Change in knowledge(%)-88 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Entrepreneurship development of farm youth (Agricultural based small scale industries)	25	21	38	-	-	-	-	1. Area expanded(ha)- 2. Out of 25 trainees, 09 farmers adopted 3. i.Change in knowledge(%)-80.9 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Leadership development for SHG/farmers club	25	34	67	-	-	-	-	1. Area expanded(ha)-96 2. Out of 25 trainees, 21 farmers adopted 3. i.Change in knowledge(%)-97 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Training methods & management	15	27	50	196.4	265.8	98201	132900	1.Area expanded(ha):46 2.Out of 25 trainees, 14 trainees adopted 3.i.Change in knowledge(%)-85.1 ii. change in production(%)-35.3 iii. Change in income(%)-35.3
Kandhamal	Use of ICT in agricultural & Rural development	15	21	63	-	-	-	-	1.Area expanded(ha): 2.Out of 15 trainees, 18 farmers adopted 3.i.Change in knowledge(%)-200 ii. change in production(%)- iii. Change in income(%)-
Kandhamal	Importance of Small and Minor millets in human diet	15	23	58	-	-	-	-	1.Area expanded(ha): 2.Out of 15 trainees, 19 farmers adopted 3.i.Change in knowledge(%)-152.1 ii. change in production(%)- iii. Change in income(%)-

Kandhamal	Soil Testing by soil test kit method	15	0	15	-	-	-	-	1.Area expanded(ha): 2.Out of 15 farmers, 12 farmers adopted 3.i.Change in knowledge(%)- ii. change in production(%)- iii. Change in income(%)-
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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			
Kandhamal	Field Day	12	12	35	30	125	95	10	05	Technology dissemination	1. Paddy 2. Niger 3.Maize and cow pea 4.Tomato 5.Chilli 6.Raikia bean 7.Cauliflower 8.Capsicum 9.Toria 10. Cabbage 11.INM in Potato 12.Onion 13 Mushroom 14. Banaraja poultry	Harvest stage And Maturity stage
Kandhamal	Kisan Mela	1	01	35	65	455	145	25	06	Awareness programme and technology dissemination to the farmers	Popularization of various production technologies & To aware the farmers about various govt. scheme like RKVY ,NFSM & NHM, world soil health day, PMFBY, PPV &FRA etc	--
Kandhamal	Kisan Ghosthi	05	05	35	31	45	30	7	3	Technology dissemination	-	-
Kandhamal	Exhibition	07	07	35	65	455	145	25	06	Technology dissemination & Awareness programme	Exhibition at OUAT, BBSR, Popularization of various production technologies & To	-

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			
											aware the farmers about various govt. scheme like RKVY ,NFSM & NHM, world soil health day, PMFBY, PPV &FRA etc	
Kandhamal	Film Show	26	26	-	-	-	-	-	mass	Technology dissemination	1.IPM 2.INM 3.Poultry rearing 3.Soil health Management 4.Weed management 5.Floriculture 6.Value addition 7.Mushroom cultivation 8.Farm implement 9.Agronomy practices	Sowing stage, Crop growth Stage, Harvesting stage
Kandhamal	Method Demonstrations	04	08	-	-	138	28	3		Technology dissemination	1.Plant protection measures 2.Soil health 3.Agronomy practices Farm implement 4.Mushroom cultivation	Pre sowing stage, Sowing,Crop growth stage
Kandhamal	Farmers Seminar											
Kandhamal	Workshop	01	01	2	1	8	2	1		Technology dissemination		
Kandhamal	Group meetings	04	04	12	3	52	30	2		To give time based technical advice	1.Vermicomposting 2.Mushroom Cultivation 3.Acid Soil management 4.Agro forestry	--

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			
											5. Crop production	
Kandhamal	Lectures delivered as resource persons	50	20	100	100	200	100	10	5	Technology dissemination	1.Vermicomposting 2.Mushroom Cultivation 3.Acid Soil management 4.Agronomy practices 5. Crop production	-
Kandhamal	Newspaper coverage	10	10	Mass						Technology dissemination	1.PPV&FRA Programme 2. Farmers Fair 3.world soil health day 4. PMFBY	--
Kandhamal	Radio talks											
Kandhamal	TV talks											
Kandhamal	Popular articles	02	03	Mas						Awareness literature		
Kandhamal	Extension Literature	04	04	Mass								
Kandhamal	Farm advisory Services	10	12	11	3	25	8			Awareness programme on farm activity	1.Vermicomposting 2.Mushroom Cultivation 3.Acid Soil management 4.Agronomy practices 5. Crop production	-
Kandhamal	Scientific visit to farmers field	244	156	55	45	310	135	5	10	To give time based technical advice	Dignostic visit on 1.Vermicomposting 2.Mushroom Cultivation 3.Acid Soil management 4.Agronomy practices 5. Crop production 6.Horticultural crop	Pre sowing, sowing, Crop growing stage, harvesting

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				
												cultivation	
Kandhamal	Farmers visit to KVK	560	546	55	24	567	58			To get advice			
Kandhamal	Diagnostic visits	40	15	35	15	174	50			To give time based advice on disease & pest management	1. IPM in Paddy 2. IPDM in Tomato 3. Fruit & shoot borer in Brinjal 4.fungal disease In mushroom 5. disease on poultry		
Kandhamal	Exposure visits	01	02	-	-	15	35	-	-	To create awareness on Scientific method of Mushroom cultivation and poultry rearing and brooding practice	Mushroom cultivation and poultry rearig	Crop growing stage and chick stage	
Kandhamal	Ex-trainees Sammelan	02	02	2	-	48				Collect feedback and Suggestion	-		
Kandhamal	Soil health Camp	02	04	8	3	59	30			Awareness on Soil fertility Status	Soil health Campaign	-	
Kandhamal	Animal Health Camp	01	01	-	-	21	03			To create awareness on poultry disease management	Vaccination of household animal		
Kandhamal	Agri mobile clinic											-	
Kandhamal	Soil test campaigns	02	02	5	3	31	21	2		To Create awareness on soil fertility management	-	Pre sowing	
Kandhamal	Farm Science Club conveners meet	10	10	5	3	45	30			Awareness on Government schemes and different agricultural activities	Agriculture and allied activity for income generation	-	
Kandhamal	Self Help Group conveners meetings	02	02	3	2	10	5			To create awareness on Government schemes and self employment	Agriculture and allied activity for income generation	-	
Kandhamal	Mahila Mandals conveners meetings												

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			
Kandhamal	Celebration of important days (World environment day)	09	02				55			Awareness programme	World Food day and Women in agriculture day	-
Kandhamal	Farmer Scientist interaction	02	02	5	3	32	10			Problem analysis and its solution	-	-

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
Kandhamal	June 2016	Quarter	500	500
Kandhamal	September 2016	Quarter	500	500
Kandhamal	December 2016	Quarter	500	500
Kandhamal	March 2017	Quarter	500	500

7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Kandhamal	Booklet	Scientific method of garden pea cultivation	D. V. Singh and S. K. Mukhi	1000
		Scientific method of pulses cultivation	D. V. Singh and S. K. Mukhi	1000
Kandhamal	Booklet	Scientific method of field pea cultivation	D. V. Singh and S. K. Mukhi	1000

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	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Kandhamal	Spices	Turmeric	Roma	91	227500	12	5
Kandhamal	Oil Seed	Mustard	M-27	3.0	15900	14	5
Kandhamal		Dhanicha	Local	1.0	4000	20	7

8.2 Planting Material production

KVK Name	Major group/class	Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Kandhamal	Vegetable	Tomato	NA2535	7250	1200	8	0.11
Kandhamal	Vegetable	Chilli	HYV	4500	3450	7	0.14
Kandhamal	Vegetable	Brinjal	HYV	4560	3450	5	0.05
Kandhamal	Vegetable	Cauliflower	HYV	5300	2500	9	0.13
Kandhamal	Vegetable	Cabbage	HYV	3708	2500	6	0.11
Kandhamal	Fruit	Papaya	Ranchi Dwarf	107	400	10	0.06
Kandhamal	Fruit	Drumstick	PKM-1	72	330	9	0.04
Kandhamal	Mushroom	Oyster Mushroom	Pleurotus sajorcaju	1200 bottles	14400	110	10SHGs

8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.) * Name of product should follow same pattern and spelled correct

KVK Name	Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (In Kg)	Qty (In No)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
	Bio Agents						
	Bio Agents						
Kandhamal	Bio Fertilizer	Vermicompost	920		4600	33	7.5
	Bio Fertilizer						

8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Breed	Type of Produce	Qty. (kg/qt./litre)	Value (Rs.)	No. of Beneficiaries

9. Activities of Soil and Water Testing Laboratory

9.1 Details of soil samples analyzed so far :

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Soil report distributed to the farmers (Nos)
Kandhamal	Working	2004-05	pH, E.C, Organic Carbon, Available N,P&K	1089	1356	27	5445	1356

9.2 Details of water samples analyzed so far :

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Water report distributed to the farmers (Nos)
Kandhamal	Working	2004-05	pH, EC	15	10	05	00	15

10. Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

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

11. Utilization of Farmers Hostel facilities

KVK Name	Months	Year	Title of the training course	Duration of training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)	Accommodation available (No. of beds)
Kandhamal	July	2016-17	Soil Testing by soil test kit method	5	15	5	-	25
Kandhamal	September	2016-17	Processing, value addition, packaging and marketing of fruits and vegetables	5	15	5	-	25

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
Kandhamal	1995	1997	04	0	----

13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Kandhamal	21.12.2016	30	Trials on Horticultural crops like chilli, tomato and capsicum for popularization in the district to get more profit.
			Trial on HYV onion & Potato
			Cultivation of short duration mustard cultivation in upland
			Popularization of potato cultivation in the district
			Emphasis on income generation activities for farm women in the district
			Soil Analysis at block level
			Training on income generating activities & post harvest management of fruit crops
			Popularization of hybrid rice variety in the district
			OFT should be taken on resource conservation technology
			Cultivation of HYV onion should be popularized in the district
			Trials on acid soil management should be taken up
			Oyster mushroom cultivation should be popularized in the district
			Awareness programme on organic vegetable cultivation should be taken up by KVK
			Emphasis on off season vegetable cultivation for higher income should be taken up by KVK
			KVK Ganjam II should be included in KVK ring partner
			Trial on drudgery reduction aspect for farm women
			Awareness programme should be conducted for soil testing
			Emphasis on enhancing productivity of Toria through INM practices
			Low cost polyhouse technology should be popularized in the district
			Awareness programme on Animal health camp should be conducted by KVK
			Mechanical method of leaf plate making should be popularized in the district

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

KVK Name	No. of messages sent	No. of beneficiary		Sponsoring agency (NIC, Farmers Portal, etc.)	Major recommendations
		Farmers	Ext. Pers.		
	43	28532	35	Farmers Portal	<ul style="list-style-type: none"> ❖ Integrated pest management ❖ Integrated disease management ❖ Weed management ❖ Processing and value addition ❖ Nutrient management ❖ Marketing ❖ Use of Low cost Agri. Equipments ❖ Weather based cultural practices ❖ Mushroom cultivation ❖ Small scale income generating activities ❖ Organic spice cultivation ❖ Nutrition security of farm family

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
Kandhamal	ATMA	State	40,000	Farmers Scientist interaction programme	Kandhamal	

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Kandhamal	11754367222	2,32,273	0.00 Note- Rs. 1,00000 deposited to DEE, OUAT, BBSR	0.00

17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Kandhamal	Young Scientist award (Dr. D. V. Singh), Senior Scientist & Head	Individual	Indian Society of Extension Education, IARI, New Delhi	--

18. Details of KVK Agro-technological Park.

a) Have you prepared layout plan, where sent?

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

b) Details about Technology Park

Name of KVK	Name of Component of Park	Detail Information (If established)
Kandhamal	Crop Cafeteria	Detail enclosed
Kandhamal	Technology Desk	
Kandhamal	Visitors Gallery	Different officials from ICAR, SAUs, line departments and district administrative officers were visited KVK instructional farm, different demo units and crop cafeteria
Kandhamal	Technology Exhibition	KVK has displayed different latest technology in Regional and State level Krishi Mahosthav
Kandhamal	Technology Gate-Valve	

c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1	Display of different latest technology suitable for Kandhamal Agro. climatic condition	01

PERFORMANCE OF CROP CAFETERIA DURING 2016-17 (Kharif & Rabi

Name of crop	Name of variety	Specific characteristics of variety regarding climate resilience	Date of sowing/planting	Date of harvesting	Yield q/ha	No. of farmers visited crop cafeteria
Kharif-2016						321
Maize	Navjot	Suitable for hilly region	25.6.16	10.10.16	24	
Groundnut	TAG-24	Sustain high rain fall	21.6.16	15.10.16	14	
Green gram	TARM-1	Good for medium temperature	28.7.16	18.10.16	8	
Black gram	Paant-U-30	Perform well in moderate climate	16.7.16	28.9.16	8	
Niger	Utakal Niger	Well adopted in hilly region	22.8.16	18.11.16	7	
Brinjal	Utakal Kumari	Sustaion moderate climate	15.7.16	Harvesting start from 18.10.16	205	
Radish	Pusha Chetaki	Gives very good yield in kharif	23.6.16	18.8.16	155	
Sweet potato	Kisan	Perform well in hilly region	29.8.16	12.12.16	215	
Rakia Bean	Kandhamal local	Suitable for well drain hilly climate	5.6.16	Harvesting start from 29.8.16	129	
Cowpea	Utakal Manik	Perform very well in moderate climate	25.6.16	Harvesting start from 10.8.16	58	
Turmeric	Roma	Well adopted in well drain hilly region	13.6.16	12.3.17	38	
Ginger	Suprabha	Gives good yield in moderate climate	22.6.16	17.2.17	110	
Chilli	Arka Lohit	Well adopted in rainfed condition	7.7.16	Harvesting started from 8.9.16	55	
Rabi-2016-17						464
Cauliflower	Madhuri	Well adopted in hilly climate	17.12.16	21.2.17	248	
Cabbage	Rail ball	Gives stable yield inadvers climate	22.12.16	15.3.17	342	
Chilli	Utakal Rashmi	Suitable for hilly region	16.12.16	Harvesting start from 3.2.17	65	
Capicum	California Wonder	Suitable for low &medium temperature	15.12.16	Harvesting start from 2.2.17	180	
Potato	Kufri Jyoti	Well adopted in hilly area	27.11.16	19.02.17	225	
Onion	Agrifound light red	Well adopted in hilly region	22.12.16	20.4.17	32	
Garlic	Yamuna Safed	Good growth in moderare temperature	15.11.16	10.3.17	122	
Tomato	Utakal Raja, Utakal Pragyan,Swarna Sampat &Deepti	Good for early kharif&Rabi	5.11.16, 7.11.16,6.11.16, &8.11.16	Harvesting start from 11.01.17, 15.01.17, 13.01.17 & 16.01.17	180, 285, 675& 592	
Chickpea	Jawahar grain-16	Well adopted in rainfed hilly region	07.12.16	28.03.17	13	
Kabuli buta	Sweta(ICC-2)	Gives good & stable yield in rainfed hilly region	08.12.16	25.03.17	12	
Brucoli	Palam Samridhi	More stable in yield	15.12.16	12.03.17	110	

Maize hybrid	PAC-753	Tolerant to low temperature	10.01.17	19.04.17	39	
Sweet corn	Madhuri	Well adopted inhilly region	10.01.17	14.04.17	62,000 cobs	
Radish	Pusa Reshmi	Well adopted in low temperature	02.12.17	24.01.17	185	
Wheat	H D-2733	Well adopted in hilly region	22.11.17	28.03.17	32	
Mustard	BR-9	Well adopted in moderate temperature	02.12.17	15.04.17	30	
Brinjal	Pusa purple long	Gives stable yield in moderate temperature	05.01.17	Harvesting start from 25.02.17	280	
Garden pea	Azad-P-3	Performed very well in low temperature	25.11.16	Harvesting start from 05.02.17	118 (green pod)	
Field pea	Rachana	Suitable for rainfed area	12.11.16	22.03.17	18	
Raikia bean	Kandhamal local	Well adopted in low as well as moderate climate	25.11.16	Harvesting start from 22.01.17	139	

19. Farm Innovators- list of 10 Farm Innovators from the District

Sr. No.	Name of KVK	Name of Farm Innovator	Name of the Innovation	Address of the farmer with Mobile No.
1	Kandhamal	Ustav Pradhan	Apiary	Village: Katadaganda, Block: G. Udayagiri, GP: Nilungia, Kandhamal Mob. No.-9438171982
2	Kandhamal	Gajapati Pradhan	HYV-Rice seed production	Village: Kalanaju, Block: G. Udayagiri, GP: Katingia, Kandhamal, Mob. No.-9439310881
3	Kandhamal	Srinivas Pradhan	Apiary	Village: Kurmingia, Block: G. Udayagiri, GP: Kalinga, Kandhamal
4	Kandhamal	Pursottam Pradhan	Bio control of pest and diseases	Village: Magariguda, Block: G. Udayagiri, GP: Gresingia, Kandhamal
5	Kandhamal	Bahadur Pradhan	High value crop-Capsicum production	Village: Burninaju, Block: Tikabali, , Kandhamal Mob: 8763263174
6	Kandhamal	Inikisi Pradhan	Flower Production	Village: Burninaju, Block: Tikabali, Kandhamal
7	Kandhamal	Simachala Dalabehera	Vermicomposting	Village: Bandaguda, Block: K. Nuagaon, Dist: Kandhamal Mob. No.:9437471249
8	Kandhamal	Khetrabasi Sahu	Off season vegetable cultivation	Village: Bandaguda, Block: K. Nuagaon, Dist: Kandhamal
9	Kandhamal	Ratani Pradhan	Mushroom cultivation in different farm residue	Village: Gotamaha, Block: K. Nuagaon, Dist: Kandhamal
10	Kandhamal	Mama Pradhan	Fruits and vegetable preservation	Village: Gamuli, Block: G. Udayagiri, Dist: Kandhamal Mob. No.:7750940501

20. KVK interaction with progressive farmers

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers to be participated
Kandhamal	12.08.2016	25
Kandhamal	03.12.2016	25
Kandhamal	11.02.2017	25

21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Kandhamal	04	09	10	38

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, Awareness programmes etc.

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

Sr. No.	Name of crop under Technology demonstration	Area under the programme	No. of Extension Activities	Remarks / Lessons learnt
Kandhamal	Demonstration on Garden pea	5	1	
Kandhamal	Demonstration on Cabbage	5	1	
Kandhamal	Demonstration on Onion	5	1	
Kandhamal	Demonstration on Oyster Mushroom (P. sajorcaju	800 bags	2	
Kandhamal	Demonstration on Poultry bird (Banaraja)	1000 chicks	2	

23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1	KVK,Ganjam	Turmeric Seed ,Resource person	
2	KVK,Nayagarh	Resource person, Soil testing laboratory.	

24. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Kandhamal	Dr. S. C Sahoo, DDE, DEE, OUAT, BBSR	21.12.16		OUAT, Bhubaneswar		Attended SAC meeting
Kandhamal	Dr D.K. Bastia, Chief Scientist, DLAP, Phulbani	05.12.16		OUAT, Bhubaneswar		Attended SAC meeting
Kandhamal	Dr. S.C. Mohapatra, JDE, DEE, OUAT, BBSR	20.03.17		OUAT, Bhubaneswar		Attended PPV&FRA meeting
Kandhamal	Prof. B. Das, Dept. of plant breeding and genetics, OUAT, BBSR	20.03.17		OUAT, Bhubaneswar		Attended PPV&FRA meeting
Kandhamal	Prof. B. Pradhan, Dept. of plant breeding and genetics, OUAT, BBSR	20.03.17		OUAT, Bhubaneswar		Attended PPV&FRA meeting

25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Kandhamal	11.10.2011	54	397

26. E-CONNECTIVITY

Name of KVK	Number and Date of Lecture delivered from KVK Hub				No. of lectors organized by KVK	Brief achievements	Remarks
	Date	No. of Staff attended	No. of call received from Hub	No. of Call mate to Hub by KVK			
Kandhamal	--	--	--	--	--	--	E-Linkage facility is not functioning since 25.08.2012

27. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks
1	Kandhamal	Nil	Nil	-

28. Status of Citizen Charter

Sr. No.	Name of KVK	Query received(Nos)	Query Disposed(Nos)	Remarks
1	Kandhamal	437	437	-

29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
Kandhamal		

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
	Dr. Dharam Vir Singh,	Seniro scientist & head	2	Soil sample collection and analysis DEE, OUAT, BBSR, Oil seed and pulse, DEE, OUAT, BBSR
Kandhamal	Mr. S. K. Mukhi	Scientist (Soil Sc.)	1	Review workshop and HRD training programme at DEE, OUAT

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
Kandhamal	2	2

31. Attended HRD Programmes by KVK Staff (Refresher course, Short course, Training programme etc.)

Name of KVK	Name of Staff	Post held	Programmes attended (Nos)	Remarks

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
Kandhamal		

32. Agri alert report (Epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)

Name of KVK	Alert observed	Particulars	Reported to organization
Kandhamal	Rain fall data, Wind speed, Damage of Crop	12	

33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Kandhamal	Gosthies	2	110	
Kandhamal	Lectures organized	3	120	-
-	Exhibition	2	100	-
Kandhamal	Film show	1	100	-
Kandhamal	Fair	-	-	-
Kandhamal	Farm Visit	2	100	-
Kandhamal	Diagnostic Practical's	1	25	-
Kandhamal	Distribution of Literature (No.)	5	500	Mushroom, Poultry, Brinjal, Cabbage,Paddy
Kandhamal	Distribution of Seed (q)	-	-	-
Kandhamal	Distribution of Planting materials (No.)	5	450	Vegetable seedlings and Mushroom Spawn
Kandhamal	Bio Product distribution (Kg)	20	20	Vegetable
Kandhamal	Bio Fertilizers (q)	-	-	-
Kandhamal	Distribution of fingerlings (No)	-	-	-
Kandhamal	Distribution of Livestock specimen (No.)	-	-	-
Kandhamal	Total number of farmers visited the technology week	-	240	-

34. 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

Farmers-scientists interaction on livestock management

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

Animal health camps organized

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

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				

Bio-control Agents

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

Bio-Fertilizer

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

Verns Produced

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

Large scale adoption of resource conservation technologies

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

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

35. Proposal of NICRA

1. Technologies to be Demonstrated

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

2. Proposed Extension Activities in NICRA Village

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

3. Proposed Training Activities in NICRA Village

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

4. Proposed Activities for Fodder Bank

Established (Years)	Capacity	Current Status

5. Proposed Activities for Seed Bank

Established (Years)	Capacity	Current Status

6. Public Representative/District Administration Visited in NICRA Village

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

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

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

37. Case study / Success Story to be developed – Two best only in the following format

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

Success Story -1

Name of the KVK :- Kandhamal

Title:- Cabbage cultivation catches more profit.

Introduction:- The district Kandhamal is favourable for off-season vegetable cultivation due its agro climatic condition .In this district the area covered under cabbage is 2786 ha with a productivity of 180q/ha .The district is predominantly inhabited by tribal peoples .The tribal farmers are resource poor & marginal farmers. They are cultivating cabbage in traditional method. The low productivity of cabbage is due to heavy pest, disease incidence & imbalanced use of plant nutrients. The soil of Kandhamal district is deficient in boron (81%). The production of crop is being increased by adopting the integrated pest & nutrient management practices.

KVK Intervention: - Cracking of cabbage is due to Boron deficiency & pest incidence such as Diamond Back Moth & Spodoptera results in low productivity & marketability of cabbage .Keeping in view the low productivity of cabbage, KVK has focused its efforts to maximize the productivity by providing training on integrated nutrient management practices & integrated disease & pest management in cabbage under tribal sub plan 2013-14. Also Training programmes were organized in the village level for imparting various technologies to the farmers about package & practices of cabbage cultivation .Demonstrations were conducted on INM and IPM in cabbage to increase the productivity & marketability of cauliflower.

Outcome:- The KVK, Kandhamal conducted demonstration on INM in Cabbage in the field of Sri Ghanashyam Pradhan of village Gindapanga, Block K-Nuagaon under TSP programme 2013-14 . FYM 15 t/ha ,Seed rate 500 g/ha, spacing 45x30 cm,seed treatment with vitavax power @ 2 gm /kg seed, application of recommended dose of N:P₂O₅:K₂O as per soil test results, full P and K and Boron @ 1 kg/ha as basal, half dose of N at 15 days after planting and the remaining half of N after 45 days of planting , application of biofertilizers like Azotobacter, Azospirillum and PSB @ 4 kg each/heactare at the time of planting of seedlings, installation of pheromen trap @ 20 nos./ha and lure @ 40 nos./ ha, spraying of neem oil @ 5 ml/lit of water alternate with Bt @ 2 g/lit. of water, spraying of catap hydrochloride @ 1.25 g/ lit. of water at ETL with need based application of ridomil MZ @ 2.5 g/ lit. of water for root rot management gave an yield of 332.7q/ha with an increase in productivity of 68.3 % over traditional practice. The bigger head size and good quality of cabbage fetches good market value & Sri Pradhan got an net profit of Rs.1,06,900/- /ha with a B.C ratio 2.8.

Impact:- The out come of the demonstration has motivated the farmers to apply Boron, soil test based fertilizer application with pest & disease management to enhance the productivity of cabbage. Inspiring the result of the demonstration most of the farmers of K-Nuagaon ,Raikia and Tikabali blocks are now giving much importance on IPM and INM practices for more yield & better marketability of cabbage.



Scientists advising farmers on nursery management



Crop at vegetative growth stage



Bumper crop growth

38. Well labeled Photographs for each activity of the KVK (Soft copies as well as hard copy- specially for all OFT along with the problem) –



Demonstration on Garden pea cultivation



OFT on organic turmeric cultivation



FLD on Mustard



Crop cafeteria



Demonstration on cabbage cultivation



Cluster demonstration on Mustard



**Farmer visited KVK
SMI Mustard field**



**World Soil health Day celebration and distribution
Of soil health card to the farmer 5/12/2016**



**Farmers fair on PMFBY programme on
05/04/16**



Exhibition stall on PPV&FRA programme



Demonstration on backyard poultry



Exposure visit to mushroom production unit



Awareness program on Ujjala Yojna



Soil Sample testing



Demonstration on Mushroom cultivation



Demonstration on Potato cultivation



Market linkage



OFT on groundnut