

ANNUAL PROGRESS REPORT

2016-17

KRISHI VIGYAN KENDRA, KIREI, SUNDARGARH

Orissa University of Agriculture & Technology, Bhubaneswar

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PERIOD – April 2016 to March, 2017

Summary of the activities

KVK Name	Activity	Target		Achievement		Total value of resource generated/Fund received from diff. sources (Rs.)
		Number of activity	No. of farmers/ beneficiaries	Number of activity	No. of farmers/ beneficiaries	
Sundargarh 1	OFTs	9	124	9	124	
Sundargarh 1	FLDs – Oilseeds (activity in ha)	90	225	90	228	
Sundargarh 1	FLDs – Pulses (activity in ha)	10	26	70	180	
Sundargarh 1	FLDs – Cotton (activity in ha)					
Sundargarh 1	FLDs – Other than Oilseed and pulse crops(activity in ha)	8	52	9	189	
Sundargarh 1	FLDs – Other than Crops (activity in no. of Unit/Enterprise)	133	75	120	120	
Sundargarh 1	Training-Farmers and farm women	54	1275	34	850	
Sundargarh 1	Training-Rural youths	4	90	6	135	
Sundargarh 1	Training- Extension functionaries	5	95	3	42	
Sundargarh 1	Extension Activities	668	7856	1257	8642	
Sundargarh 1	Seed Production (Number of activity as seeds in quintal)	60		28.4q		
Sundargarh 1	Planting material ((Number of activity as quantity of planting material in quintal)	6500		4200		
Sundargarh 1	Seedling Production (Number of activity as number of seedlings in numbers)	174000		17300		
Sundargarh 1	Sapling Production (Number of activity as number of sapling in numbers)			450		
Sundargarh 1	Other Bio- products (No. of quantity) Vermicompost	20 q		10		
Sundargarh 1	Other Bio- products (No. of quantity) Vermin	50kg		2		
Sundargarh 1	Live stock products					
Sundargarh 1	Activities of Soil and Water Testing Laboratory			128		
Sundargarh 1	Rainwater Harvesting System					
Sundargarh 1	Kisan Mobile Advisory (KVK-KMA)	110	10000	96		
Sundargarh 1	SAC Meeting (Date & no. of core/ official members)	2	60	1		

KVK Name	Activity	Target		Achievement		Total value of resource generated/Fund received from diff. sources (Rs.)
		Number of activity	No. of farmers/ beneficiaries	Number of activity	No. of farmers/ beneficiaries	
Sundargarh 1	Literature Developed/Published	6	3000	4	2000	
Sundargarh 1	Convergence programmes / Sponsored programmes			1	76	
Sundargarh 1	Utilization of Farmers Hostel			4	126	
Sundargarh 1	Utilization of Staff Quarters	4	4	8		
Sundargarh 1	Details of KVK Agro-technological Park			0		
Sundargarh 1	Crop Cafeteria-					
Sundargarh 1	Farm Innovators- list of 10 farm innovators from the District					
Sundargarh 1	Status of Revolving Funds					
Sundargarh 1	Awards and Recognitions					
Sundargarh 1	Case study / Success Story developed	6	240	6	240	
Sundargarh 1	KVK Progressive Farmers interaction	4	120	4	120	
Sundargarh 1	Outreach of KVK in the District (No. of blocks, no. of villages)					
Sundargarh 1	Technology Demonstration under Tribal Sub Plan	3	240	3	240	
Sundargarh 1	KVK Ring					
Sundargarh 1	Important visitors to KVK					
Sundargarh 1	Status of KVK Website					
Sundargarh 1	Status of RTI					
Sundargarh 1	E-connectivity					
Sundargarh 1	Details of Technology Week Celebrations	24	2000	24	2000	
Sundargarh 1	Interventions on Drought Mitigation					
Sundargarh 1	Proposal of NAIP					
Sundargarh 1	Proposal of NICRA					
Sundargarh 1	Well labeled photographs					
Sundargarh 1	Other Activities					

1. GENERAL INFORMATION

1.1. Staff Position (31.3.2016)

Name of KVK.	Sanctioned post	Name of the incumbent	Discipline	Highest degree	Subject of Specialization	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
Sundargarh-1	Sr. Scientist & Head									
Sundargarh-1	Scientist 1	Mr.D.J.Bage	Agril.(Extn)	MSc (Ag)	Agril. Extension	15600-6000-39100	22220	08.08.2012	Temporary	ST
Sundargarh-1	Scientist 2	Mr Satyamaya Satapathy	Agronomy	MSc (Ag)	Agronomy	15600-6000-39100	19100	16.12.2010	Temporary	Other
Sundargarh-1	Scientist3	Miss Sanghamitra Sahoo	Plant Protection	MSc (Ag)	Plant Pathology	15600-6000-39100	15,600		Temporary	SC
Sundargarh-1	Scientist4									
Sundargarh-1	Scientist5									
Sundargarh-1	Scientist6									
Sundargarh-1	Programme Assistant									
Sundargarh-1	Farm Manager	Mr. RS Mishra	Plant Protection	M.SC (Ag)	Plant Pathology	15600-6000-39100	10560	10.2.15	Temporary	Others
Sundargarh-1	Computer Programmer	Mr. A K Mishra	Computer	M.Sc., MCA		9300-4200-34800	14670	1.7.2011	Temporary	Others
Sundargarh-1	Accountant / superintendent									
Sundargarh-1	Stenographer									
Sundargarh-1	Driver	Mr. Deepak Das								
Sundargarh-1	Driver	Mr. B. Sa				5200-1900-20000	6350	19.7.08	Temporary	Others
Sundargarh-1	Supporting staff	Mr. G. Chhanda				4440-1300-7000	5790	19.6.2013	Temporary	Others

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

The district lies in the north western portion of the State. It is bounded on the north by Jharkhand State, on the south by Jharsuguda, Sambalpur and Deogarh districts, on east and north-east by Keonjhar and Paschimi Singhbhum districts of Odisha and Jharkhand, on the west and north-west Raigarh district of Chhatisgarh. The district headquarters is located at Sundargarh.

Head quarter	Sundargarh	Population	18,30,673
Sub division	3	Male	9,35,473
Blocks	17	Female	8,95,200
Tahasils	12	SC	15,7804 (8.62%)
Municipality	4	ST	9,19,180 (50.21%)
Grama panchayat	262	General	7,53,689 (41.17%)
Villages	1,744	Total population of the farmers of the district	1,45,639
Assembly seats	7	Male in Agril.	2,37,379
Towns	9	Female in Agril.	2,02,028
Literacy Rate	65.22 %	Male in Non-Agril.	1,88,162
Longitude	83032'-85022'E	Female in Non-Agril.	1,12,544
Latitude	20035'-22032'N	Work force in Agril.	43,94,070
MSL	300 m	Work force in Non-Agril.	3,00,706
Temperature (Max)	260 - 410 C	Geographical Area	9,712 Sq. Kms.
Temperature (Min)	120 - 280 C	Area	9,71,244 ha.
Avg. Rainfall	1200 mm	Total cultivable land in the district (ha.)	3,36,050
Avg. Rainy days	60	Misc. tree crops & grooves	3,897 ha. (16.53%)
Relative Humidity	47 - 89%	Permanent pasture & other grazing area	30,349 ha. (3.12%)
Wind Velocity	2 - 7 km/hour	Cultivable waste	39,945 ha. (4.11%)
Small Farmers	50,338	Land put to non-agril. Uses	49,249 ha.
Marginal Farmers	62,817	Barren & uncultivable land	41,562 ha.
Big Farmers	32,484	Current Fallow	61,109 ha.
Major rivers	Brahmani, Sankh & Koel – Tributary of Brahmani and IB- Tributary of Mahanadi	Other fallow	41,325 ha.
Major crops of the district		Forest area	1,60,583 ha.
		Net Area sown	3,13,000 ha. (32.22%)
		Irrigated land (ha.)	31,924

	Paddy, black gram, green gram, arhar, horse gram, sesamum, groundnut, mustard, wheat and maize	Rain-fed land (ha.)	3,04,126
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Geographically, the district is not a compact unit and consists of widely, dissimilar tracts of expansive and fairly open country, dotted with isolated peaks, inaccessible forests, river valley and mountainous terrain. Broadly speaking it is an undulating table-land of different elevations broken up by rugged hill ranges and cut off by torrential hill streams and the river Ib and Brahmani. The general slope of the district is from north to south. There is a open well-cultivated plain country along the valley of the Ib river particularly in the south. The rest of the Sadar sub-division consists of undulating table-land about 700 ft. in average height, dotted here and there with hills and peaks rising to about 2000ft., in the western most tracts at hemgir P.S. in the north there is a gradual rise to the table-land of Chhotanagpur. The portion occupied by Bonai sub-division to the south-east has rugged forest and hills intersected by gorges and passes and having a narrow valley of the Brahmani river and its tributaries. For a short spell of time during the rainy season the rapid current of the hill-streams cut off communication. The east and west of the brahmani valley is filled with high range of mountains, ft.) Chheliatoka (3331 ft.) and Bichakani (2964 ft.) in the east. The last hill has acquired importance as it contains million of tonnes of iron-ore for use in Rourkela steel plant. The territory of Sundargah and Panposh sub-divisions comprising the ex-states of Ganagpur is about 700 ft. above the sea level. Bonai sub-division comprising ex-State of Bonai is about 800 ft. above the sea level. The forest of the district is of northern tropical dry deciduous type, mainly containing Sal, Assan and Kurum. The eastern half of Bonai and Rajagangapur contain better quality of vegetation. The forest area is mostly studded with rich mineral deposits, like iron ore, manganese, limestone, lead; also forest products like bamboo, timber and kendu leaf which are export-oriented. The district was a very inaccessible tract having no proper communication. The tribal people living in the area used to subsist for the most part of shifting cultivation which resulted in denudation of forest. The forest occupy an area of 3534.92 sq.kms which includes 2664.64 sq. kms. under reserved forest and 612.07 sq.kms. under protected forest. The forests are of northern tropical dry deciduous type. Sal is the dominant species. The eastern half of Bonai contain better quality of vegetation. The principal forest produce are timber, kendu-leaf and bamboo besides minor product like sabai grass, lac, tassar, myrabolan, mahua, kusuma seed, resin, tamarind, gum and sal seed.

1.3. DETAILS OF ADOPTED VILLAGE during 1.4.2016 to 31.3.2017 (Approved by competent Authority in meetings/workshops)

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
Sundargarh-1	Salangabud	2014-15	Sadar	34	1200	145
Sundargarh-1	Salepali	2012-13	Sadar	30	1300	150
Sundargarh-1	Khamarbahal	2012-13	Tangarpali	25	900	120
Sundargarh-1	Amasaranga	2012-13	Sadar	20	1185	115
Sundargarh-1	Tileimalti	2010-11	Sadar	22	778	156
Sundargarh-1	Baghnipani	2014-15	Sadar	28	482	76
Sundargarh-1	Birjaberna	2014-15	Sadar	17	354	56

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

Identified Thrust Areas
To increase yield by substituting local / degraded varieties in vegetables and field crops.
To control disease & insect pest by integrated methods of pest control with organic articulation.
To promote integrated nutrient management in crop production.
To promote cultivation of lucrative off-season vegetables.
Emphasize on increasing the acreage of the fruit crops like mango, banana on commercial scale .
Popularise diversified cropping pattern in uplands (Oilseeds/Pulses/Maize).
Popularise integrated weed & nutrient management in crop production .

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

KVK Name	Problem identified	Methods of problem identification
Sundargarh-1	Distress sale of paddy.	PRA , Focus group discussion, Observation
Sundargarh-1	Local varieties are having low production potential and are susceptible to pest & diseases.	PRA , Focus group discussion, Observation
Sundargarh-1	Indiscriminate use of pesticides and fertiliser in irrigated areas.	PRA , Focus group discussion, Observation
Sundargarh-1	Poor income from upland crops.	PRA , Focus group discussion, Observation
Sundargarh-1	Poor income from animal husbandry	PRA , Focus group discussion, Observation
Sundargarh-1	Poor off farm income of resource poor farm families.	PRA , Focus group discussion, Observation

2. On Farm Testing

2.1 Information about OFT conducted

KVK name	Year/season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situations	Farmers	No. of trials	Title of OFT	Results (with parameter)				Net Returns (Rs./ha)			
										Farmer practice T1	Rec. Tech T2	T3	T4	T1	T2	T3	T4
Sundargarh-1	Kharif 15	Low yield due to high infestation of weed	Assessment	IWM	Paddy	Rainfed upland & Transplanted medium land	2.6 ha	13	Assessment of Herbicide Bensulfuron methyl + Pretilachlor (Londax power) in Transplanted rice.	36.5	38.8	43.5		20450	24850	28800	
Sundargarh-1	Rabi 2016-17	Low yield from existing cultivation practices	Assessment	ICM	Mustard	Irrigated medium land	2.6 ha	13	Refinement of crop management practices in mustard	10.8	26.5			23200	59250		

KVK name	Year/season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situations	Farmers	No. of trials	Title of OFT	Results (with parameter)				Net Returns (Rs./ha)			
										Farmer practice T1	Rec. Tech T2	T3	T4	T1	T2	T3	T4
Sundargarh-1	Kharif 2015	Low yield from existing variety (Binayak)	Assessment	Varietal evaluation	Rice and greengram	Irrigated medium land	2.6 ha	13	assessment of production enhancement of rice-green gram cropping system through agronomic management.	7.2	10.6			20200	33200		
Sundargarh-1	Summer 2016-17	Yield reduced and some time crop loss	Assessment	IDM	Potato	Irrigated medium land	0.52 ha	13	Assessment of IDM against late blight of potato	198	265	298		56500	72800	82600	
Sundargarh-1	Late kharif 2015	Low yield due to higher temperature	Assessment	Crop diversification	Garlic	Irrigated upland	0.52 ha.	13	Assessment of planting time of Garlic c.v Yamuna Safed 3	24.0	42.0	38.0	36.8	8600	61100	47800	43600
Sundargarh-1	Kharif 2015	Low yield due to high infestation of stem borer in rice from nursery stage to ripening stage	Assessment	IPM	Rice	Rainfed medium land	0.52 ha	13	Assessment of IPM module for management of stem borer in rice	32.6	38.4	41.0		18200	23600	26800	
Sundargarh 1	Rabi 2016-17	Withering of terminal shoots, bore holes on shoots and fruits plugged with excreta, shedding of flower buds, slithering and drying of leaves and fruit bearing is affected which reduce the yield	Assessment	Integrated pest management	Brinjal	Irrigated upland	0.52	13	Assessment of IPM against fruit and shoot borer in brinjal	102	162	144		78000	117000	104000	

KVK name	Year/season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situations	Farmers	No. of trials	Title of OFT	Results (with parameter)				Net Returns (Rs./ha)			
										Farmer practice T1	Rec. Tech T2	T3	T4	T1	T2	T3	T4
Sundargarh-1	Rabi 2016-17	Low yield from existing potato c.v. Lal patna	Assessment	Varietal evaluation	Potato	Irrigated mediumland	0.52 ha	13	Assessment of potato varieties in irrigated medium land of plateau eco system	150.3	220.6	18.3	205.4	53600	86800	64400	71600
Sundargarh-1	Kharif 2015 & Rabi 2016-17	Low yield due to high infestation of BLB in rice from nursery stage to ripening stage	Assessment	Agricultural Marketing	vegetables	Homestead	30	30	Assessment of management practices of bacterial leaf blight in rice	28.5	35.4			15400	22500		

2.1a Recommendations of OFTs

Recommendations		
Title of OFT	For Farmers	For Deptt. Personnel
Assessment of Herbicide Bensulfuron methyl + Pretilachlor (Londax power) in Transplanted rice.	It controls the grasses effectively as pre emergence herbicides.	Its effect on the growth of crops is less. Weed control efficiency is more than 75%.
Refinement of crop management practices in mustard	It's a better practice in irrigated condition. The yield is 5 times higher than direct sowing of mustard.	It is proven technology and practiced more in our neighbor state like Bihar. It requires more awareness.
assessment of production enhancement of rice-green gram cropping system through agronomic management.	Best farmers practice. Copes with different abiotic and biotic adverse conditions.	This low cost indigenous practice need spread among farmers.
Assessment of IDM against late blight of potato		
Assessment of planting time of Garlic c.v Yamuna Safed 3	October sowing yielded more because of synchronization of bulb formation with the decreasing temperature .	Sowing window of Garlic recommended is second fortnight of Oct

Assessment of IPM module for management of stem borer in rice	Bheema is much bigger in size during kharif, fetches more price	Ensuring availability of quality planting material in time.
Assessment of IPM against fruit and shoot borer in brinjal	The pest incidence decreases with the following of the ipm schedule	Though the cost of adopting this technique is more than the normal practice it gives sustainability to the system
Assessment of potato varieties in irrigated medium land of plateau eco system	Kufri pukhraj yields much better but kufri jyoti is good in taste	All the varieties are suitable to the district as per preferences of the farmers
Assessment of management practices of bacterial leaf blight in rice	The value at each step of market involved is generated and the marketing strategies needed to be adopted by the	The value chain analysis of different crops are done.

Economic Performance

KVK name	OFT Title	Average Cost of cultivation (Rs/ha)				Average Gross Return (Rs/ha)				Average Net Return (Rs/ha)				Benefit-Cost Ratio Return / Gross C		
		FP (T ₁)	RP (T ₂)	RP (T ₃)	RP (T ₄)	FP (T ₁)	RP (T ₂)	RP (T ₃)	RP (T ₄)	FP (T ₁)	RP(T ₂)	RP (T ₃)	RP (T ₄)	FP (T ₁)	RP (T ₂)	RP (T ₃)
Sundargarh-1	Assessment of Herbicide Bensulfuron methyl + Pretilachlor (Londax power) in Transplanted rice.	31500	28895.35	30000		51950	53745.3488	58800		20450	24850	28800		1.38	1.87	1.90
Sundargarh-1	Refinement of crop management practices in mustard	16150	18515.63	0		39350	77765.625	0		23200	59250			2.44	4.2	
Sundargarh-1	assessment of production enhancement of rice-green gram cropping system through agronomic management.	24650	25800	0		44850	59000	0		20200	33200			1.82	2.65	
Sundargarh-1	Assessment of IDM against late blight of potato	35500	36800	37200		92000	109600	119800		56500	72800	82600		2.6	3.4	3.6
Sundargarh-1	Assessment of planting time of Garlic c.v Yamuna Safed 3	71700	74500	74700	73900	80300	135600	122500	117500	8600	61100	47800	43600	1.12	1.82	1.64
Sundargarh-1	Assessment of IPM module for management of stem borer in rice				0	48600	57300	61150		18200	23600	26800		1.3	1.46	1.7
Sundargarh1	Assessment of IPM against fruit and shoot borer in brinjal	75000	65000	64600	0	153000	182000	168596.27	0	78000	117000	104000		2.04	2.8	2.6

Sundargarh-1	Assessment of potato varieties in irrigated medium land of plateau eco system	107200	135625	134200	135100	160800	222425	1985600	2066100	53600	86800	64400	71600	1.5	1.64	1.48
Sundargarh-1	Assessment of management practices of bacterial leaf blight in rice	29600	32150	0	0	45000	54650	0		15400	22500			1.52	1.7	

3. Frontline Demonstrations

3.1. Follow-up for results of FLDs implemented during previous years (up to 2015-16)

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
Sundargarh 1	Paddy	Varietal evaluation	Demonstration of medium duration paddy c.v. Hiranmayee	Training demonstration, field day Radio talk.	13	250	75
Sundargarh 1	Maize	ICM	Demonstration of performance of transplanted Maize	Training demonstration, field day Radio talk, Tv talk	17	534	120
Sundargarh 1	Paddy	INM	Demonstration of micronutrient (Zn & B) application in paddy	Training demonstration, field day farm literature	22	137	8
Sundargarh 1	Ragi	Varietal evaluation	Demonstration of ragi var. chilika	Training demonstration, field day Radio talk.	14	89	26
Sundargarh 1	Pointed gourd	Varietal Evaluation	Demonstration of pointed gourd c.v. Swarna aloukik	Training demonstration, field day Radio talk, Tv talk	27	246	146
Sundargarh 1	Tomato	Varietal evaluation	Demonstration of hybrid tomato c.v. Swarna sampad	Training demonstration, field day, popular article	18	126	72
Sundargarh 1	Polyhouse	IGA	Demonstration on use of low tunnel poly house for off-season nursery raising (Rainy & winter)	Training demonstration, field day farm literature, popular articles	09	42	19
Sundargarh 1	Mango	Integrated pest management	Popularization of fruit fly management in mango	Training demonstration, field day Radio talk.	71	326	
Sundargarh 1	Onion	Integrated disease management	Popularization of seedling damping off in onion	Training demonstration, field day, farmer interaction	09	36	09
Sundargarh 1	Poultry	IGA	Demonstration of backyard poultry	Training demonstration, field day, farmer interaction	26	114	71
Sundargarh1	Papaya, Drumstick,	Nutritional gardening	Demonstration of nutritional gardening	Training demonstration	29	210	98

Sundargarh1	Chickpea	ICM	Package demonstration of chick pea	Training demonstration	42	313	126
Sundargarh1	Green gram	ICM	Package demonstration of greengram	Training demonstration	18	124	78
Sundargarh1	Groundnut	ICM	Package demonstration of groundnut	Training demonstration	62	398	215
Sundargarh1	Mustard	ICM	Package demonstration of mustard	Training demonstration	12	326	

3.2 Details of FLDs implemented during 2016-17

KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop-Area (ha) / Entrep - No.	Name of Variety Entreprizes	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Sundargarh-1	IWM	Paddy	Kharif 2016	Demonstration of post emergence herbicide Bispyribac sodium in direct seeded Rice	2.0	sahabhagi	32.8	29.0	13	1	2	7	0	10
Sundargarh-1	INM	Paddy	Kharif 2016	Demonstration of micronutrient (Zinc and Boron) application in paddy (Repeat)	2.0	Pratikshya	44.3	38.2	15.97	0	0	10	0	10
Sundargarh-1	Varietal evaluation	Onion	Kharif 2016	Demonstration of Onion varieties during kharif	1.0	Bhima super	180.4	New	100	0	0	10	0	10
Sundargarh-1	Varietal evaluation	Tomato	Rabi 2016-17	Demonstration of hybrid tomato c.v. Swarna sampad	0.4 ha	Swarna sampada	412.5	325.7	21.04 %	4	5	1		10
Sundargarh-1	IGA	Mushroom	Rabi 2016-17	Demonstration of oyster mushroom	60 units	p. sajorcaju	0.95kg			0	60	0	0	60
Sundargarh-1	IGA	Vermicomposting	Rabi 2016-17	Demonstration on vermicomposting	60 units	E foetida	12.6q	0	0	0	60	0	0	60
Sundargarh1	Integrated pest management	Mango	Rabi 2016-17	Popularization of fruit fly management in mango	0.8	Langra	continuing							
Sundargarh1	Integrated disease management	Onion	Rabi 2016-17	Demonstration of seedling damping off in onion	0.8	Bhima super	215	130	65.4%	1	5	4		10
Sundargarh-1	IPM	Tomato	Kharif 2015 & Rabi 2016-17	Demonstration of management of fruit borer in tomato	0.2	Swarna sampada	375.8	311.5	20.6%	4	5	1		10
Sundargarh-1	ICM	Blackgram	Kharif 2016	Package demonstration of Blackgram	30.0 ha	PU 35	7.7	5.2	48	0	55	20	0	75
Sundargarh-1	ICM	Green gram	Rabi 2016-17	Package demonstration of greengram	40.0 ha	TARM-1	9.16	5.2	71	0	105	0	0	105
Sundargarh-1	ICM	Groundnut	Rabi 2016-17	Package demonstration of groundnut	60.0. ha	Devi	17.1	12.7	34.6	0	150	0	0	150

Sundargarh-1	ICM	Mustard	Rabi 2016-17	Package demonstration of mustard	10.0 ha	JD-6	7.81	5.6	12.8%		25	0	0	25
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3.3 Economic Impact of FLD

KVK Name	Name of Crop/Enterprise	Technology demonstrated	Parameters			Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	Demo	Check	Demo	Check	Demo	Check	Demo	Check	Demo	Local Check
Sundargarh-1	Paddy	Demonstration of post emergence herbicide Bispyribac sodium in direct seeded Rice	No. of effective tillers / hill, Length of panicle, grain/panicle, test wt. , yield,dry wt of weed/m ²	6.8 23.2 214 22.2 32.8 6.75	4.1 20.8 195 23.1 29.0 60.75	2550 0	24000	40200	45500	20838	1084 0	1.87	1.38
Sundargarh-1	Paddy	Demonstration of micronutrient (Zinc and Boron) application in paddy (Repeat)	No. of effective tillers / hill, Length of panicle, grain/panicle, test wt. , yield	9.6 26.2 241.5 22.2 44.3	7.3 23.8 235.8 23.1 38.2	3650 0	33000	52200	60500	23846	1935 2	1.65	1.59
Sundargarh-1	Onion	Demonstration of Onion varieties during kharif	Yield, Av bulb wt	180.4 52.8		74500		270500		19620 0		3.64	
Sundargarh-1	Mango	Popularization of fruit fly management in mango	Yield	412.5	325.7	128900	120600	412500	325700	283600	205100	3.20	2.7
Sundargarh-1	Onion	Demonstration of seedling damping off in onion	No. of healthy seedling	1580/unit	560/unit	110	290	790	280	500	170	2.72	2.54
Sundargarh-1	Tomato	Demonstration of management of fruit bore in tomato	Fruit infestation % Yield	272.4	210	150400	126400	490320	378000	33992 0	2516 00	3.26	2.99
Sundargarh-1	Blackgram	Package demonstration of Blackgram	Yield	7.7	5.2	17500	15100	38500	24180	21000	9080	2.2	1.6
Sundargarh-1	Greengram	Package demonstration of greengram	Yield	9.16	5.2	19877	9080	36177	24180	15100	1630 0	2.3	1.65
Sundargarh-1	Groundnut	Package demonstration of groundnut	Yield	17.1	12.7	50500	48500	144000	96500	93500	4800 0	2.85	1.98
Sundargarh-1	Mustard	Package demonstration of mustard	Yield	7.81	5.6	29500	26500	43200	32500	17360	7100	1.59	1.27

3.4 Training and Extension activities under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Sundargarh-1	PADDY	Field days	1	50	
		Farmers Training	3	75	
		Media coverage			
		Training for extension functionaries	0		
Sundargarh-1	paddy	Field days	2	120	
		Farmers Training	3	75	
		Media coverage			
		Training for extension functionaries			
Sundargarh-1	onion	Field days	1	50	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Sundargarh-1	tomato	Field days	2	100	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Sundargarh-1	mushroom	Field days	2	100	
		Farmers Training	4	100	
		Media coverage	1	Mass	
		Training for extension functionaries	1	20	
Sundargarh-1	vermicomposting	Field days	2	100	
		Farmers Training	4	100	
		Media coverage	1	mass	
		Training for extension functionaries			
Sundargarh-1	Mango	Field days			
		Farmers Training	2	75	
		Media coverage	1	mass	
		Training for extension functionaries			
Sundargarh-1	onion	Field days	1	50	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries	1	20	

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Sundargarh-1	tomato	Field days	1	50	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Sundargarh-1	blackgram	Field days	1	100	
		Farmers Training	1	25	
		Media coverage			
		Training for extension functionaries			
Sundargarh-1	Greengram	Field days	1	100	
		Farmers Training	2	50	
		Media coverage			
		Training for extension functionaries			
Sundargarh-1	Groundnut	Field days	1	50	
		Farmers Training	2	50	
		Media coverage			
		Training for extension functionaries			
Sundargarh-1	mustard	Field days	1	50	
		Farmers Training	2	50	
		Media coverage			
		Training for extension functionaries			

3.5 Details of FLD on crop hybrids.

Sr.No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.
	Sundargarh-1					
	Sundargarh-1					
	Sundargarh-1					
	Sundargarh-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
Sundargarh-1	Demonstration of medium duration paddy c.v. Hiranmayee	Through farmer promoters, Personal Interaction, GD	Higher yield, better plant vigour	Promising technology, can be replicated in lowland condition
Sundargarh-1	Demonstration of performance of transplanted Maize	Through farmer promoters, Personal Interaction, GD	Maize provided early cash, Optimum land utilization	Sustainable technology can be replicated in > 5000ha of maize areas
Sundargarh-1	Demonstration of micronutrient (Zn & B) application in paddy	Through farmer promoters, Personal Interaction, GD	Early returns due to higher vigour & optimum plant density	Technology superior and can be replicated in maize areas >4000 ha
Sundargarh-1	Demonstration of ragi var. chilika	Through farmer promoters, Personal Interaction, GD	Good quality fruit with better colour and keeping quality. Better market price	Can be adopted in irrigated uplands. Under vegetable cultivation
Sundargarh-1	Demonstration of pointed gourd c.v. Swarna aloukik	Through farmer promoters, Personal Interaction, GD	More yield than the local variety	Needs refinement regarding time of planting for higher productivity
Sundargarh-1	Demonstration of hybrid tomato c.v. Swarna sampad	Through farmer promoters, Personal Interaction, GD	More income as the early crop gives higher price	Can be adopted by vegetable growers for raising nursery in kharif season.
Sundargarh-1	Demonstration on use of low tunnel poly house for off-season nursery raising (Rainy & winter)	Through farmer promoters, Personal Interaction, GD		
Sundargarh-1	Popularization of fruit fly management in mango	Through farmer promoters, Personal Interaction, GD		
Sundargarh-1	Popularization of seedling damping off in onion	Through farmer promoters, Personal Interaction, GD		

Sundargarh-1	Demonstration of backyard poultry Vanraja	Through farmer promoters, Personal Interaction, GD		
Sundargarh-1	Demonstration of nutritional gardening	Through farmer promoters, Personal Interaction, GD		
Sundargarh-1	Package demonstration of Chickpea	Through farmer promoters, Personal Interaction, GD		
Sundargarh-1	Package demonstration of greengram	Through farmer promoters, Personal Interaction, GD		
Sundargarh-1	Package demonstration of Groundnut	Through farmer promoters, Personal Interaction, GD		
Sundargarh-1	Package demonstration of mustard	Through farmer promoters, Personal Interaction, GD		

4.2. Feedback from KVK to Research System.

Abbreviation Used

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

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

5. TRAINING PROGRAMMES

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

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

Name of KVK	Category of the training	Methods of need assessment	Date and place	No. Of participants involved
Sundargarh	FW & RY	PRA, Focus Group discussion, Questionnaire		
Sundargarh	IS	Questionnaire		

Table 5.2. Details of Training programmes conducted by the KVKs.

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	No. of participants	SC		ST		Others	
								F	M	F	M	F	M
								9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Sundargarh-1	F/F W	OFC	INM	INM in paddy	1	1	25	0	1	1	12	1	10
Sundargarh-1	F/F W	OFC	ICM	Scientific method of nursery raising for paddy	1	1	25		2		12		11
Sundargarh-1	F/F W	OFC	ICM	Scientific method of groundnut cultivation	1	1	25		1	8	4	11	0
Sundargarh-1	F/F W	ONC	INM	Soil test based nutrient application	1	1	25		0	0	6	0	19
Sundargarh-1	F/F W	OFC	ICM	Pigeon pea based intercropping in upland	1	1	25		0	0	11	0	14
Sundargarh-1	F/F W	OFC	ICM	Suitable cropping systems in rice-fallow	1	1	25		3	0	14	1	7
Sundargarh-1	F/F W	ONC	IWM	Integrated weed management in paddy	1	1	25		1	1	15	2	5
Sundargarh-1	F/F W	OFC	ICM	SMI in mustard	1	1	25		1	0	1	0	23
Sundargarh-1	F/F W	OFC	ICM	Transplanting and fertilizer management in mustard intensification	1	1	25	2	4	0	12	0	7
Sundargarh-1	F/F W	OFC	IWM	Method of herbicide application in paddy	1	1	25		0	2	9	14	0
Sundargarh-1	F/F W	OFC	ICM	Techniques of nursery bed for raising of onion seedlings	1	1	25		0	0	25	0	0

Sundargarh-1	F/F W	OFC	INM	Importance of micronutrient in paddy	1	1	25		2	0	14	9	0
Sundargarh-1	RY	ONC	ICM	Crop management under protected cultivation	1	1	25	0	2	0	23	0	0
Sundargarh-1	IS	ONC	ICM	Maize based intercropping systems			10	9	0	0	0	0	0
Sundargarh-1	FW	ONC	PP	ipm of paddy	1	1	25		6		7		12
Sundargarh-1	FW	ONC	PP	disease and pest management of oilseed	1	1	25		8		10		7
Sundargarh-1	FW	ONC	PP	ipm module of paddy	1	1	25		4		7		14
Sundargarh-1	FW	ONC	PP	management of caseworm and leaf folder in rice	1	1	25		6		8		11
Sundargarh-1	RY	ONC	PP	mushroom cultivation in polyhouse	1	1	15		2		3		10
Sundargarh-1	RY	ONC	PP	vegetable cultivation in controlled temperature	1	1	15		6		6		3
Sundargarh-1	IS	ONC	PP	ipm and inm in maize	1	1	10		4		5		1
Sundargarh-1	IS	ONC	PP	disease and pest in groundnut	1	1	10		4		2		4
Sundargarh-1	FW	ONC	PP	control and management of pest solanaceous vegetable	1	1	25	6	4		5		10
Sundargarh-1	FW	ONC	PP	ipm in potato	1	1	25	4	3		7		11
Sundargarh-1	FW	ONC	PP	ipm in mustard	1	1	25	3	1				21
Sundargarh-1	FW	ONC	PP	disease and pest management in colecrops	1	1	25		4				21
Sundargarh-1	FW	OFC	PP	ipm in mustard	1	1	25	2	1				22
Sundargarh-1	FW	OFC	PP	disease and pest management in tuber crops	1	1	25				25	125	
Sundargarh-1	FW	OFC	PP	ipm of paddy	1	1	25				40	110	
Sundargarh-1	FW	ONC	PP	disease and pest management of oilseed	1	1	25	5	6				14
Sundargarh	FW	ONC	CBD	Mushroom cultivation	4	4	100	9	11	3	72	1	4
sundargarh	FW	OFC	CBD	Vermicomposting	4	4	100	3 7	15	42	9	0	0
Sundargarh 1	FW	OFC	CRP	Training on self employment opportunities in agriculture	4	3	40				40		

Sundargarh 0	RY H	OFC	CRP	Identification of Market and backward forward linkage	3	3	30				30		
Sundargarh 1	RY H	OFC	CRP	Vermicomposting	1	3	25				25		
Sundargarh 1	EXP	ONC	ICT	Advances in use of ICT in agriculture	1	1	10					2	8

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

Name of KVK	Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)	Number of Beneficiaries								
					SC		ST		Others				
					M	F	M	F	M	F			
Sundargarh1	Seed production technology of aromatic paddy	paddy	Increasing profit from paddy	5									
Sundargarh1	Vermicomposting	Vermicomposting	Organic input production	5									
Sundargarh 1	Bee-Keeping	Indian Honey-bee	Utilization of natural Bee-flora & honey production	5									
Sundargarh1	Repairing and maintenance of small and medium agricultural implements and machineries (Pump, sprayer, power weeder)	Farm machinery	Farm Mechanisation	5									

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

Name of KVK	Training title	Self employed after training			Number of persons employed else where
		Type of units	Number of units	Number of persons employed	
Sundargarh	Vermicompost	Vermi Tanks(No), Compost(kg)	60	90	
Sundargarh	Backyard poultry	Nos	3	15	7
Sundargarh	Mushroom cultivation	No of units Nos of Beds.	6	24	8

Table 5.5. Sponsored Training Programmes

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/ RY/ IS)	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		
Sundargarh 1	Training on crop cultivation to panipanchayat members	HO	HOV	RY	30	60					34	8	WALMI, Odisha	4,39,500
Sundargarh 1														

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

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/ RY/ IS)	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		
Sundargarh 1														
Sundargarh 1														

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

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Sundargarh 1	INM in paddy	25	20	80					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 80 3 % change in knowledge, production & income 300
Sundargarh 1	Scientific method of nursery raising for paddy	25	18	75					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 542 3 % change in knowledge, production & income 316

Sundargarh 1	Scientific method of groundnut cultivation	25	22	75					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	241
Sundargarh 1	Soil test based nutrient application	25	22	78					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	255
Sundargarh 1	Pigeon pea based intercropping in upland	25	10	75					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	650
Sundargarh 1	Suitable cropping systems in rice-fallow	25	25	85					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	240
Sundargarh 1	Integrated weed management in paddy	25	45	75					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	67
Sundargarh 1	SMI in mustard	25	35	72					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	106
Sundargarh 1	Transplanting and fertilizer management in mustard intensification	25	20	75					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	275
Sundargarh 1	Method of herbicide application in paddy	25	46	86					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	87
Sundargarh 1	Techniques of nursery bed for raising of onion seedlings	25	45	78					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	73
Sundargarh 1	Importance of micronutrient in paddy	25	24	46					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	92
Sundargarh 1	Crop management under protected cultivation	25	22	78					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	255
Sundargarh 1	Maize based intercropping systems	10	22	78					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	255

Sundargarh 1	ipm of paddy	25	25	75					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	300
Sundargarh 1	disease and pest management of oilseed	25	45	75					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	67
Sundargarh 1	ipm module of paddy	25	45	85					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	89
Sundargarh 1	management of caseworm and leaf folder in rice	25	22	60					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	173
Sundargarh 1	mushroom cultivation in polyhouse	15	35	78					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	123
Sundargarh 1	vegetable cultivation in controlled temperature	15	45	78					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	73
Sundargarh 1	ipm and inm in maize	10	56	78					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	39
Sundargarh 1	disease and pest in groundnut	10	24	56					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	133
Sundargarh 1	control and management of pest solanaceous vegetable	25	24	56					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	133
Sundargarh 1	ipm in potato	25	45	78					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	73
Sundargarh 1	ipm in mustard	25	36	54					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	50

Sundargarh 1	disease and pest management in colecrops	25	45	68					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	51
Sundargarh 1	ipm in mustard	25	24	78					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	255
Sundargarh 1	disease and pest management in tuber crops	25	32	78					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	144
Sundargarh 1	ipm of paddy	25	14	89					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	536
Sundargarh 1	disease and pest management of oilseed	25	52	88					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	69
Sundargarh 1	Mushroom cultivation	100	56	73					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	30
Sundargarh 1	Vermicomposting	100	44	89					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	102
Sundargarh 1	Training on self employment opportunities in agriculture	40	35	78					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	123
Sundargarh 1	Identification of Market and backward forward linkage	30	45	88					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	96
Sundargarh 1	Vermicomposting	25	56	75					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	34
Sundargarh 1	Advances in use of ICT in agriculture	10	45	89					1 Area expanded (ha) 2 No. Of farmers adopted (No.) 3 % change in knowledge, production & income	98

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			
Sundargarh I	Field Day	13	10	124	36	512	178	18	6	To analyse and Highlight the successful technology	Hybrid Tomato(Swarna sampada), Weed mgt in Paddy, backyard poultry, scientific method of oilseed & pulse production	Peak vegetative and harvesting
Sundargarh I	Kisan Mela	3	3	461	29	712	191	28	18	Emphasize interaction and exchange of information among participants	Tribal livelihood and food security – challenges and opportunities.	
Sundargarh I	Kisan Ghosthi	2	4	36	12	23	9	2	4	Gathering for technical interaction, improve group cohesion & keep all group members abreast of recent advancement	Pre and post production management in livelihood sector	
Sundargarh I	Exhibition	4	4							Presentation & display of best technologies	Value addition from agri produce	
Sundargarh I	Film Show	15	18	114	12	167	38	36	19	Knowledge & skill development of farmers	Vermicompost, SRI, Value addition, Mushroom, Blackgram herbicide application,	

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			
Sundargarh I	Method Demonstrations	16	26	82	34	212	65	11	3	Understanding of process, component of new technology & their mgt.	SRI, Line transplanting, sowing, herbicide application, value addition, vermiculture	
Sundargarh I	Farmers Seminar	4	2	24	4	71	12	8	3	Bringing together of small groups for focusing on a particular subject	1. Climatic change 2. Crop Diversification	
Sundargarh I	Workshop	2	-							Emphasize interaction and exchange of information among participants		
Sundargarh I	Group meetings	4	4	87	27	176	34	12	8	Gathering for technical interaction, improve group cohesion & keep all group members abreast of recent advancement	Cultivation practices of cereals, pulses, oilseed, vegetables & enterprise	
Sundargarh I	Lectures delivered as resource persons	0	9	296	84	424	86	62	45	Knowledge & skill development	Hybrid maize cultivation, mustard, SRI, hybrid rice, Oyster mushroom cultivation	
Sundargarh I	Newspaper coverage	8	14							Publicity	Kisan mela, Special day celebration	

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			
Sundargarh I	Radio talks	0	0							Awareness, information	Apiculture, IFS, hybrid maize cultivation	
Sundargarh I	TV talks	0	0							Awareness, information	Crop seminar	
Sundargarh I	Popular Articles	0	4							Publicity	Maize cultivation, ICT, agromet advisory	
Sundargarh I	Extension Literature	6	6							Knowledge & skill development	Role of organic agriculture, Use of IT in agriculture, Soil health mgt.	
Sundargarh I	Farm Advisory Services	120	96	0	0	0	0					
Sundargarh I	Scientific visit to farmers field	200	149	669	22	727	75			Monitoring and evaluation	Cereals, pulses, oilseed vegetables, enterprise	
Sundargarh I	Farmers Visit to KVK	0	876	381	163	258	74	-	-	Information seeking, problem solving, trainings, capacity development	Crop improvement, crop mgt., IGA, weather information	
Sundargarh I	Diagnostic Visits	140	13	86	12	196	21			Monitoring and evaluation	Pest & disease incidence,	
Sundargarh I	Exposure Visits	4	7	132	4	126	29			Learn from experience from others	Brooding of chicks, vermicultrure, rice straw mushroom in polyhouse	
Sundargarh I	Ex-trainees Sammelan	4	2	42	8					Emphasize interaction and exchange of information among participants	Mushroom production, backyard poultry production	

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			
Sundargarh 1	Soil Health Camp	5	2	26	2	128	19	4	8			
Sundargarh 1	Animal Health Camp	5	2	91	2	291	1	16	1	To keep animal resources healthy & productive	Periodic health check-up & vaccination	
Sundargarh 1	Agri Mobile Clinic	5										
Sundargarh 1	Soil Test Campaigns	2	2	73	-	237	2					
Sundargarh 1	Farm Science Club conveners meet	2	2							Emphasize interaction and exchange of information among participants	Cooperative marketing	
Sundargarh 1	Self Help Group conveners meetings	2	2	6	14	6	12	2	21	To strengthen SHGs & to make them more financially self reliant	Value added products, management & empowerment SHGs	

7. Production and supply of Technological products

7.1 SEED production

KVK Name	Major group/class	Crop	Variety	Type of produce (for Seed produced type hereSD; For Planting Material type herePM)	Quantity	Unit for quantity of produces (qtl for SD and Nos for PM)	Value (Rs.)	Provided to No. of Farmers
Sundargarh 1	Cereals	Paddy	Pratikshaya	SD	30	Qtl	73020	OSSC
Sundargarh 1	Pulses	Arhar	Asha	SD	1.8	Qtl		

7.2 Planting Material production

KVK Name	Major group/class	Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production				Amount (Rs.)		Remarks	
						Variety	Type of Produce	Nos.	Qty. in kg.	Cost of inputs	Gross income		
Sundargarh 1	Fruits	Papaya	May 2015, September 2016		0.005 100	C. honey dew & Selection 1	PM	1000			1000/-		
Sundargarh 1	Vegetables	Drumstick	May 2015, September 2016			PKM 1/ PKM 2	PM	1000				1000/-	
Sundargarh 1	Vegetables	Tomato	July 2016	Nov2016		Swarna sampada	PM	3400	230			1700/- + 2300/-	
Sundargarh 1	Vegetables	Brinjal	July 2016	Dec 2016		VNR-228	PM	2110	30			1055/- + 300/-	
Sundargarh 1	Vegetables	Chilli	Sept 2016	Dec 2016		VNR-138	PM	2000	5			1000/- + 300/-	
Sundargarh 1	Vegetables	Cauliflower	July 2016	Sept-oct2016			PM	2400	-			1200/-	
Sundargarh 1	Vegetables	Cabbage	July 2016	Oct 2016			PM	1600	100			800/- + 1000	
Sundargarh 1	Vegetables	Capsicum	Oct 2016	Jan17			PM	600	80			300/- + 1600/-	
Sundargarh	Vegetables	Okra	Oct 2016	Feb 2017			PM	-	30			450/-	
Sundargarh	Vegetables	Pointed gourd	June2016	Oct2016			Swarna aloukik	PM	-	41		615/-	
Sundargarh	Vegetables	Leafy vegetables	Nov 2016	Jan2016			Improved	PM	-	240		2400/-	
Sundargarh 1	Exotics	Broccolli	July 2016	Oct 2016			Rasi29	PM	1000	15		1000/-	
Sundargarh 1	Spices	Onion	Aug 2016	Dec2016			Bhimasuper	PM	1000	311		500/- + 3732/-	
Sundargarh	Spices	Ginger	Jun 2016	Oct 2016			Roma	PM	-	16.7		2510/-	
Sundargarh	Spices	Turmeric	Jun 2016	Oct 2016			Suprava	PM	-	22.22		2000/-	
Sundargarh	Exotics	Sweet corn	July 2016	Sept2016			Sweet 75	PM	-	130		4300/-	

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

KVK Name	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
Sundargarh	BIOAGENTS				
Sundargarh	Vermicompost	20.0 qtl	5000	10000	
Sundargarh	Vermin	50kg		25000	

7.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
Sundargarh	Cattle						
Sundargarh	Buffalo						
Sundargarh	Sheep and Goat						
Sundargarh	Poultry						
Sundargarh	Fisheries						

8. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : yes

Year of establishment : 2016/17

8.1 Details of soil & water samples analyzed :

KVK Name	Type	No. of Samples	No. of Farmers	No. of Villages	Amount released	Resources generated
Sundargarh	Soil Sample	126	174	28	0	0
Sundargarh	Water Sample	0	0	0	0	0

9. Rainwater Harvesting, if available.

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

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

10. Kisan Mobile Advisory (KVK-KMA)

KVK Name	No. of messages sent	No. of beneficiaries		Major recommendations
		Farmers	Ext. Pers.	
Sundargarh	96	59000	200	Weather & market based advisory on crop and allied activities

11. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Sundargarh	29.12.2016	30	<ul style="list-style-type: none"> • Crop diversification programmes to be continued. • Kharif Potato, Kharif Onion and Kharif Tomato should be encouraged. • Popularization of Value added Maize crops such as Baby corn & Sweet Corn to be taken up. • Horizontal spread of Mustard, Turmeric, Niger to be make. • High Yield Variety Ginger and Tomato to be included in Action Plan. • Value addition of Mohua to be taken up. • Backyard Poultry to be further encouraged and strengthened. • Knowledge and skill development on vegetable cultivation for

			<p>Farm Women should be emphasized.</p> <ul style="list-style-type: none">• Mushroom cultivation should be given importance.• Use of organic inputs to be encouraged.• Grooming of farmer promoter to be started.• Popularizing Chick Pea and Garden Pea in Rice fallow system for increasing cropping intensity.
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12. Literature Last Developed/Published (with full title, author & reference)

12.1 KVK Newsletters

KVK Name	Date of start	Periodicity	Number of copies printed	Number of copies distributed
Sundargarh	July, September, December, March	Quarterly	2000	

12.2 Details of Electronic Media Produced

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
Sundargarh	CD	SMI in mustard	10
Sundargarh	CD	Mohua Seed decorticator	10
Sundargarh	CD	Oyster Mushroom production	10

12.3 PUBLICATIONS

Category	Number	Date of start	Periodicity	Number of copies printed	Number of copies distributed
Research Paper					
Technical bulletins	6	Weather specific crop advisory	Bi-monthly	200	200
Technical reports	18	Activity & Achievement	Monthly, quarterly & annually	-	-
Popular article	10	Crop & livelihood areas			
News paper coverage					
Year Planner	1	June 2016	Annually		
Others (Technical booklets)	6	Commodity & Technology specific			

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

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs.)	Activities organized	Operational Area	Remarks
Sundargarh 1	ATMA	Central		Assessment/Refinement	AES	
Sundargarh 1	MNREGA					
Sundargarh 1	NHM					
Sundargarh 1	RKVY	Central		Technical monitoring	District	
Sundargarh 1	DRDA					
Sundargarh 1	Zila Panchyat					
Sundargarh 1	Seed Village					
Sundargarh 1	NAIP					
Sundargarh 1	Climate Change					
Sundargarh 1	Others (Plz. Specify)					

14. Utilization of Farmers Hostel.

Accommodation available (No. of beds): 30 beds)

KVK Name	Months	Year	Title of the training course	Duration of training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
Sundargarh 1	1 month	2016	Skill development training to Mushroom growers	3	30	3	
Sundargarh 1		2016	Training of trainers as social animators	4 days	30	30	
		2017	Training to panipanchayat members	12	38	12	

15. Utilization of Staff Quarters.

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
Sundargarh 1	1997	28.9.2008	6	3	Inhabitable condition
Sundargarh 1					

16. Details of KVK Agro-technological Park –

a) Have you prepared layout plan, where sent?

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

b) Details about Technology Park

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

c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
	Exotic vegetables	5
	Crop cafeteria 1 (Cole crops)	4
	Crop cafeteria 2 (

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

Sr. No.	Name of kvk	Name of Farm Innovator	Name of the Innovation	Address of the farmer with Mobile No.
1	Sundargarh			
2	Sundargarh			
3	Sundargarh			
4	Sundargarh			
5	Sundargarh			
6	Sundargarh			
7	Sundargarh			
8	Sundargarh			
9	Sundargarh			
10	Sundargarh			

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

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers participated
1.	September 2016	50
2.	December 2016	200
3.	January 2017	32

19. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Sundargarh	4	7	16	80

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, Awareness programmes etc.

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

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

21. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
	Sundargarh-II Jharsuguda	Exchange of technology, Variety, Manpower, Vehicle, equipments	

22. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	Remarks
Sundargarh	Jual Oram, Hon'ble Cabinet Minister for Tribal Affairs, GOI	16/4/16	
Sundargarh	Pitrush Toppo, President Zilla Parishd, Sundargarh	5/12/16	
	B K Mishra, District BJP President and State Youth BJP Secy.	16/4/16,	

23. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
	Sundargarh	2010	2	

24. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals
	Sundargarh	Nil	

25. E-CONNECTIVITY (ERNET Lab) : Not yet developed

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			
Sundargarh							

26. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS CELEBRATED (Jan 3rd wk)

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Sundargarh	Gosthies	1	50	
Sundargarh	Lectures organized	5	125	
Sundargarh	Exhibition	1	500	
Sundargarh	Film show	5	200	
Sundargarh	Fair	1	Mass	
Sundargarh	Farm Visit	2	200	
Sundargarh	Diagnostic Practical's	2	200	
Sundargarh	Distribution of Literature (No.)	1	200	
Sundargarh	Distribution of Seed (q)			
Sundargarh	Distribution of Planting materials (No.)	1	1000	
Sundargarh	Bio Product distribution (Kg)			
Sundargarh	Bio Fertilizers (q)			
Sundargarh	Distribution of fingerlings (No)			
Sundargarh	Distribution of Livestock specimen (No.)			

Sundargarh	Total number of farmers visited the technology week	5	400	
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27. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

Sl. No.	Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries
	Sundargarh			

Major area coverage under alternate crops/varieties

Sl. No.	Name of KVK	Crops	Area (ha)	Number of beneficiaries
	Sundargarh	Oilseeds		
	Sundargarh	Pulses		
	Sundargarh	Cereals		
	Sundargarh	Vegetable crops		
	Sundargarh	Tuber crops		
	Sundargarh	Fruits		
	Sundargarh	Spices		
	Sundargarh	Cotton		
	Sundargarh			
	Sundargarh			
	Sundargarh	Total		

Farmers-scientists interaction on livestock management

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

Animal health camps organized

Name of KVK	Number of camps	No. of animals	No. of farmers
Sundargarh	2	300	Nil

Seed distribution in drought hit states

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

Seedlings and Saplings distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
Sundargarh				

Bio-control Agents

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

Bio-Fertilizer

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

Vermis Produced

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

Large scale adoption of resource conservation technologies

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

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
Sundargarh												

28. Proposal of NICRA

1. Technologies 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 Covered			
	Farmers	Farm Women	Official	Total

3. Proposed Training Activities in NICRA Village

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

4. Proposed Activities for Fodder Bank

Established (Years)	Capacity	Current Status

5. Proposed Activities for Seed Bank

Established (Years)	Capacity	Current Status

6. Public Representative/District Administration Visited in NICRA Village

Name of Representative/Officer	Designation	Date of Visit

7. Feedback of Farmers for future improvement, if any.
8. Good Action Photographs after work progress (step-wise)
- 29. Proposed works under NAIP (in NAIP monitoring format)**

30. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Sundargarh	30773698636	392361	454536	454536

31. Awards & Recognitions

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

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

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

Sr. no.	Name of KVK	No. of success stories	No. of case studies
1	Sundargarh	2	2

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